

SCIENCE. SERVICE. SOLUTIONS.



AIR & VAPOR BARRIER

Field Guide



TABLE OF CONTENTS

CCW Air and Vapor Product Listing	1
Installation Checklist	7
Barritech VP/Barritech NP	10
Barritech VP-LT.....	75
CCW-705/CCW Fire Resist CCW-705FR-A	138
Fire Resist CCW-705VP	175
Barriseal	219
Approved Sealants.....	283

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
CCW-705 4" x 100' 1 RL	4" x 100'	33.3 sf roll			40-mil-thick composite membrane consisting of a rubberized asphalt adhesive laminated to a tough, cross-laminated HDPE film.
CCW-705 6" x 100' 1 RL	6" x 100'	50 sf roll	4 roll/ctn		
CCW-705 9" x 100' 1 RL	9" x 100'	75 sf roll	2 roll/ctn		
CCW-705 12" x 100' 1 RL	12" x 100'	100 sf roll	2 roll/ctn		
CCW-705 18" x 100 1 RL	18" x 100'	150 sf roll	1 roll/ctn		
CCW-705 24" x 75' 1 RL	24" x 75'	200 sf roll	1 roll/ctn		
CCW-705 36" x 75' 1 RL	36" x 75'	225 sf roll	1 roll/ctn		
CCW-705 Standard or Low Temperature (LT) Adhesive Formulas Available					
CCW-705 LT Air & Vapor Barrier 18" x 100'	18" x 100'	150 sf roll	1 roll/ctn	48 rolls	40-mil-thick composite membrane consisting of a special extra tacky, rubberized asphalt adhesive laminated to a tough, cross-laminated HDPE film. CCW-705 LT is specially-formulated to enable easier installation in cold weather conditions.
CCW-705 LT Air & Vapor Barrier 24" x 100'	24" x 100'	200 sf roll	1 roll/ctn	32 rolls	
CCW-705 LT Air & Vapor Barrier 36" x 75'	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	
CCW-705 HT Air & Vapor Barrier 36" x 75'	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	40-mil-thick composite membrane consisting of a special extra tacky, rubberized asphalt adhesive laminated to a tough, cross-laminated HDPE film. CCW-705 HT is specially formulated to enable easier installation in cold weather conditions.

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
CCW-705 FR-A 36" x 75' 1 RL	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	40-mil-thick composite membrane consisting of a rubberized asphalt laminated to fire resistant aluminum foil/HDPE composite facer.
CCW-705 FR-A 24" X 50' 1 RL	24" x 100'	200 sf roll	1 roll/ctn	32 rolls	
CCW-705 FR-A 4" x 100' 1 RL	4" x 100'	33.3 sf roll	6 roll/ctn	32 rolls	
CCW-705 FR-A 6" x 100' 1 RL	6" x 100'	50 sf roll	4 roll/ctn	32 rolls	
CCW-705 FR-A 9" x 100' 1 RL	9" x 100'	75 sf roll	2 roll/ctn	48 rolls	
CCW-705 FR-A 12" x 100' 1 RL	12" x 100'	100 sf roll	2 roll/ctn	32 rolls	
CCW-705 FR-A 18" x 100' 1 RL	18" x 100'	150 sf roll	1 roll/ctn	48 rolls	
CCW-705 FR-A 24" x 75' 1 RL	24" x 75'	200 sf roll	1 roll/ctn	32 rolls	
CCW-705 FR-A 36" x 75' 1 RL	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	
CCW-705 FR-A Standard or Low Temperature (LT) Adhesive Formulas Available					
CCW-705 VP Strips 6" x 100' 1 RL	6" x 100'	50 sf roll	4 roll/ctn	32 rolls	Composite membrane consisting of a breathable specially engineered film fully coated on one side with a permeable adhesive. Fire Resist 705VP membrane permits passage of water vapor, yet it performs as a barrier to air and liquid water.
CCW-705 VP Strips 18" x 100' 1 RL	18" x 100'	150 sf roll	1 roll/ctn	32 rolls	
CCW-705 VP Strips 24" x 100' 1 RL	24" x 100'	200 sf roll	1 roll/ctn	25 rolls	
CCW-705 VP 48" x 100' 1 RL	48" x 100'	400 sf roll	1 roll/ctn	30 rolls	

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
BARRISEAL Spray Grade 50 Gal	—	50 gal drum	—	4 drums	Water-based asphalt emulsion modified with a blend of synthetic polymers and special additives.
BARRISEAL Spray Grade Tote 330 Gal	—	330 gal tote	—	1 tote	
BARRISEAL Roller Grade 5 Gal	—	5 gal pail	—	36 pails	Water-based asphalt emulsion modified with a blend of synthetic polymers and special additives.
BARRICURE 5 Gal	—	5 gal pail	—	45 pails	Barricure is an aqueous solution of special ingredients for curing Barriseal-S and Barricoat-S rubberized asphalt emulsions in spray application.
BARRITAPE 4" x 100'	4" x 100'	33.3 sf roll	12 rolls/ctn	1 ctn	Barritape is a 20-mil self-adhering flashing consisting of a flexible, dimensionally stable polypropylene film laminated with an aggressively tacky, rubber-modified asphalt adhesive.
BARRITECH NP 5 Gal	—	5 gal pail	—	45 pails	Fire Resist Barritech NP is a fluid-applied membrane made from naturally fire-resistant materials. Fire Resist Barritech NP is applied to exterior wall assemblies where it functions as an air barrier, vapor barrier and a water resistive barrier.
BARRITECH NP 50 Gal Drum	—	50 gal drum	—	4 drums	
BARRITECH VP 5 GAL	—	5 gal pail	—	45 pails	Fire Resist Barritech VP is a fluid-applied membrane made from naturally fire-resistant materials. Fire Resist Barritech VP is applied to exterior wall assemblies where it functions as an air barrier and a water resistive barrier.
BARRITECH VP 50 GAL	—	50 gal drum	—	4 drums	

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
Barriotech VP-LT 5 Gal		5 gal pail			Fire Resist Barriotech VP-LT is a Low Temperature fluid-applied membrane made from naturally fire-resistant materials. Fire Resist Barriotech VP is applied to exterior wall assemblies where it functions as an air barrier and a water resistive barrier.
Barriotech VP-LT 50 Gal		50 gal drum			
CCW-705 TWF 12" x 100'	12" x 100'	100 sf roll	2 rolls/ctn	32 ctn	
CCW-705 TWF 18" x 100'	18" x 100'	150 sf roll	1 roll/ctn	48 rolls	
CCW-705 TWF 24" x 100'	24" x 100'	200 sf roll	1 roll/ctn	32 rolls	40-mil thick composite consisting of a 32-mil self-adhering rubberized asphalt membrane laminated to an 8-mil, cross-laminated, high-density polyethylene film.
CCW-705 TWF 36" x 75'	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	
CCW-705 TWF LT 12" x 100'	12" x 100'	100 sf roll	2 rolls/ctn	32 ctn	
CCW-705 TWF LT 18" x 100'	18" x 100'	150 sf roll	1 roll/ctn	48 rolls	40-mil thick composite consisting of a 32-mil self-adhering rubberized asphalt membrane laminated to an 8-mil, cross-laminated, high-density polyethylene film. CCW-705 TWF LT is specially-formulated to enable easier installation in cold weather conditions.
CCW-705 TWF LT 24" x 100'	24" x 100'	200 sf roll	1 roll/ctn	32 rolls	
CCW-705 TWF LT 36" x 75'	36" x 75'	225 sf roll	1 roll/ctn	25 rolls	
Ps Unc. Elastofrom Flashing 6" x 100'	6" x 100'	50 sf roll	2 rolls/ctn	N/A	A fully adhered, flexible, synthetic rubber flashing of 0.090 inch (90 mil) thickness consisting of 0.060 inch (60 mil) thickness un-cured EPDM laminated with 0.030 inch (30 mils) of synthetic rubber. Pressure-Sensitive adhesive.
Ps Unc. Elastofrom Flashing 9" x 50'	9" x 50'	37.5 sf roll	1 roll/ctn	N/A	
Ps Unc. Elastofrom Flashing 12" x 50'	12" x 50'	50 sf roll	1 roll/ctn	N/A	

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
LiquiFiber W 6" x 300' Water Base	6" x 300'	150 sf roll	8 rolls/ctn	N/A	Randomly oriented glass strands formed into cohesive mats with a water-soluble binder.
LiquiFiber W 12" x 300' Water Base	12" x 300'	300 sf roll	4 rolls/ctn	N/A	
Reinforcing Fabric-DCH 4" x 324' 108 Sf	4" x 324'	108 sf roll	1 roll	N/A	
Reinforcing Fabric-DCH 6" x 324' 162 Sf	6" x 324'	162 sf roll	1 roll	N/A	White polyester fabric designed for use with liquid applied membranes.
Reinforcing Fabric-DCH 12" x 324' 324 Sf	12" x 324'	324 sf roll	1 roll	N/A	
Reinforcing Fabric-DCH 40" x 324' 1080 Sf	40" x 324'	1,080 sf roll	1 roll	N/A	
SS HP-250 EPDM Primer 1-Gal (Ctn 6)	—	1 gal pail	6 gal/ctn	N/A	Solvent-based primer designed for one-step cleankng and priming of EPDM surfaces prior to application of Pressure-Sensitive products.
SS HP-250 EPDM Primer 2-½ Gal	—	2.5 gal pail	2 ea/can	N/A	
SS Lap Sealant Black Tubes (Ctn 25)	—	10.3 oz tube	25 ea/ctn	N/A	Designed for sealing splice edges of cured Sure-Seal EPDM and butyl membranes.
CCW-201 Multi-Comp Sealant 1-½ Gal	—	1.5 gal	—	100 kits	Multi-component, chemical-curing, low-modulus, non-sag, polyurethane sealant especially formulated for dynamically moving joints.
CCW-704 Mastic 5 Gal	—	5 gal pail	1 each	36 pails	Carlisle CCW-704 is a solvent-based, rubberized bitumen mastic.
CCW-704 Mastic 30 Oz Tubes 12/Ctn	—	30 oz. tube	15 tubes/ctn	45 ctn	
CCW-715	—	5 gal pail	1 each	45 pails	Designed to allow adhesion of CCW Sheet Membranes to damp or partially cured concrete surfaces.

CCW AIR AND VAPOR PRODUCTS

Product Name	Dimensions	Size	Packaging	Units/ Pallet	Description
CCW 702 Adhesive 5 Gal	–	5 gal pail	1 each	45 pails	Quick-drying, solvent-based, high-tack adhesive specifically designed to promote maximum adhesion of CCW Sheet Membrane Waterproofing products.
CCW 702 LV Adhesive 5 Gal	–	5 gal pail	1 each	30 pails	Quick-drying, solvent-based, high-tack adhesive specifically designed to promote maximum adhesion of CCW self-adhering membranes.
CCW 702 WB Adhesive 5 Gal	–	5 gal pail	1 each	45 pails	Quick-drying, water-based, high-tack adhesive specifically designed to promote maximum adhesion of CCW Sheet Membrane Waterproofing products.
CAV-GRIP #40 Cylinder	–	40 lb cyl.	1 each	24 ea	Multi-purpose contact adhesive for bonding polystyrene foam board insulation to substrates and bond enhancement of CCW-705.
TRAVEL-TACK Clear Spray Can 12 Ea	–	–	12 ea ctn	12 ctn	Solvent-borne, polymer-based contact adhesive for improving the adhesion of self-adhering flashing strips.
CCW LM-800XL Liquid Mastic Tubes	–	29 oz. tube	12 tubes/ctn	60 ctn	Fast-drying elastomeric, single component, cold-applied liquid material.
CCW LM-800XL Liquid Mastic 5 Gal	–	5 gal pail	1 each	36 pails	

INSTALLATION CHECKLIST

General

- ☐ Verify all local codes have been satisfied.
- ☐ Verify all specification requirements are satisfied.
- ☐ Review adjacent materials (windows, doors, ducts, and other penetrations) for conformance to manufacturer's installation instructions.
- ☐ Verify adequacy of material storage areas so materials are properly stored.
- ☐ Verify material shelf life prior to application.
- ☐ Verify mock-up (as applicable) procedures are followed.
- ☐ Verify proper sequencing of material installation.
- ☐ Verify placement and design of expansion joints.
- ☐ Verify temperature limitations for both ambient and substrate are followed.
- ☐ Verify all loose ducts, electrical fixtures, conduit and plumbing penetrations are properly secured.
- ☐ Protect surrounding areas and surfaces from damage and staining during application of Air and/or Vapor Barrier.
- ☐ Verify protection of rough openings conform with CCW current application instructions and literature.
- ☐ Verify continuity of the air barrier is achieved at foundation and roof tie-ins.
- ☐ Verify a continuous air and vapor barrier is achieved across the building envelope.

Substrate

- ☐ Verify substrate is installed per manufacturer's installation instructions and that substrate is flat, free of fins and planar irregularities.
- ☐ Verify substrate is dry, clean, sound and free of dust, dirt, residue and all other surface contaminants.
- ☐ Verify fasteners are not over or under driven.
- ☐ Verify masonry substrate is properly cured.
- ☐ Verify wood-based sheathings properly gapped at edges and ends.

INSTALLATION CHECKLIST

Flashing

- ☐ Verify head flashing end dams are incorporated in the flashing material.
- ☐ Verify flashing extends beyond the outer face of the wall.
- ☐ Verify all flashing including through-wall flashings are placed and installed per contract documents.

Liquid Applied – Barritech VP/Barritech VP-LT/ Barritech NP/Barritech-S/R

- ☐ Verify proper wet mil thickness is achieved during spray and roller application.
- ☐ Verify application is free of voids and pinholes.
- ☐ Verify all gaps exceeding ¼-inch are filled with approved sealant. (When using LiquiFiber all gaps must be filled with approved sealant.)
- ☐ Verify spray machinery, hoses and spray tips are clean and in proper working condition.

CCW-705/705FR-A Installations

- ☐ Verify CCW contact adhesive is applied prior to CCW-705 and CCW-705FR-A installation.
- ☐ Verify CCW contact adhesive can no longer transfer to touch prior to installation of CCW-705/CCW-705FR-A.
- ☐ Verify CCW-705/CCW-705FR-A overlaps onto adjoining pieces meet the minimum requirements of 2-inches.
- ☐ Verify vertical and horizontal seams are offset minimum 6-inches.
- ☐ Verify CCW-705/CCW-705FR-A overlaps minimum 6-inches onto adjacent membrane systems.
- ☐ Verify CCW-705/CCW-705FR-A is firmly rolled with hand roller.
- ☐ Verify installation of Approved Sealant is applied to all field cut edges at T-joints, reverse laps and terminations.

INSTALLATION CHECKLIST

Sealant

- ☐ Verify CCW acceptable sealants are utilized.
- ☐ Verify sealant joint design is per contract documents.
- ☐ Verify duct shafts, utility penetrations, knee walls and flue shaft openings to the exterior or unconditioned space are properly secured and sealed with approved sealant.
- ☐ Verify proper backer rod/bond breaker tape is utilized.
- ☐ Verify proper sealant width to depth ratio.
- ☐ Verify sealants are installed per the specification and contract documents.

Clean-up

- ☐ Protect finished work at end of each day.
- ☐ Note dirt accumulation or physical damage that may have occurred during construction and repair as needed.
- ☐ Verify proper removal of construction materials, equipment, and waste material.

BARRITECH VP/BARRITECH NP

TABLE OF CONTENTS

Installation Guidelines	13
Coordination	13
Substrate	14
Project/Site Conditions	14
Delivery, Storage and Handling	15
Application	15
 Barritech VP/Barritech NP Installation Instructions	 16
BVP-1A – Option 1: Barritech VP Roller Application	17
BVP-1A – Option 2: Barritech VP Spray Application	18
BNP-1A – Option 1: Barritech NP Roller Application	19
BNP-1A – Option 2: Barritech NP Spray Application	20
 Sheathing Joints Installation Instructions	 21
BNP-4A/BVP-4A – Option 1: CCW-705FR-A	22
BNP-4A/BVP-4A – Option 2: DCH Sheathing Fabric	23
BNP-4A/BVP-4A – Option 3: Approved Sealant	24
BVP-2A – Option 1: CCW-705FR-A	25
BVP-2A – Option 2: CCW-705FR-A	26
BNP-2A – Option 1: CCW-705FR-A	27
BNP-2A – Option 2: CCW-705FR-A	28
 Inside/Outside Corners Installation Instructions	 29
BNP-15A/BVP-15A – Option 1: CCW-705FR-A	30
BNP-15A/BVP-15A – Option 2: DCH Reinforcing Fabric	31
BNP-15A/BVP-15A – Option 3: CCW LiquiFiber	32
BVP-15D – Isometric Corner Reinforcements	33
 Pipe and Mechanical Penetration Installation Instructions	 34
BNP-14B/BVP-14B – Option 1: CCW-705FR-A	35
BNP-14B/BVP-14B – Option 2: CCW LiquiFiber	36
BNP-14C/BVP-14C – LiquiFiber-W at Pipe Penetration	37
BNP-14D/BVP-14D – Electrical Box Penetration	37
 Brick Ties Installation Instructions	 38
BNP-6C/BVP-6C – Knife Plate Type Ties CMU and Sheathing	39
BNP-6D/BVP-6D – Brick Ties Attached to Stud Through Insulation and Sheathing	39
BNP-6E/BVP-6E – Brick Ties Attached to Stud Through Insulation and Sheathing	40
 Expansion Joint Installation Instructions	 41
Application: Sure-Seal Pressure-Sensitive Elastoform	41
BNP-3A/BVP-3A – Gypsum Sheathing Vertical Expansion Joint	42
BNP-3B/BVP-3B – CMU Expansion Joint	42

TABLE OF CONTENTS

Window Rough Opening Installation Instructions.....	43
Option 1: CCW-705FR-A at Window Jamb & Head.....	44
BNP-5B.1/BVP-5B.1 – Option 1: Punched Window – Sill	45
BNP-5B.2/BVP-5B.2 – Option 1: Punched Window – Jamb	45
BNP-5B.3/BVP-5B.3 – Option 1: Punched Window – Head	46
Option 2: CCW LiquiFiber	47
BNP-5B.2/BVP-5B.2 – Option 2: Punched Window – Jamb	48
BNP-5B.3/BVP-5B.3 – Option 2: Punched Window – Head	48
BVP-17 – Isometric Rough Opening Sill, Jamb and Head.....	49
 Parapet Installation Instructions.....	 50
Option 1: CCW-705FR-A	51
BNP-11C/BVP-11C – Option 1: Tie-in to TPO Roof at Parapet	52
BNP-11E/BVP-11E – Option 1: Tie-in to EPDM Roof at Parapet.....	52
Option 2: DCH Reinforcing Fabric	53
BNP-11C/BVP-11C – Option 2: Tie-In to TPO Roof at Parapet	54
BNP-11E/BVP-11E – Option 2: Tie-In to EPDM Roof at Parapet.....	54
Option 3: CCW LiquiFiber	55
BNP-11C/BVP-11C – Option 3: Tie-In to TPO Roof at Parapet	55
BNP-11E/BVP-11E – Option 3: Tie-In to EPDM Roof at Parapet.....	56
BNP-11J/BVP-11J – Isometric Parapet Edge Flashing.....	56
 Foundation Installation Instructions	 57
Option 1: CCW-705FR-A	58
BNP-16A/BVP-16A – Option 1: Foundation Tie-In	58
Option 2: DCH Reinforcing Fabric	59
BNP-16A/BVP-16A – Option 2: Foundation Tie-In	59
Option 3: CCW LiquiFiber	60
BNP-16A/BVP-16A – Option 3: Foundation Tie-In	60
 Shelf Angle Through-Wall Flashing Installation Instructions.....	 61
Application: Treatment prior to shelf angle installation.....	62
Option 1: CCW-705FR-A	62
BNP-7B/BVP-7B – Option 1: Drift Joint at Floor	63
Option 2: DCH Reinforcing Fabric	64
BNP-7B/BVP-7B – Option 2: Drift Joint at Floor	65
Option 3: CCW LiquiFiber	66
BNP-7B/BVP-7B – Option 3: Drift Joint at Floor	67
Application: Treatment with shelf angle installed	68
Option 1: CCW-705FR-A	68
BNP-7C/BVP-7C – Option 1: Drift Joint at Floor	68
Option 2: CCW LiquiFiber	69
BNP-7C/BVP-7C – Option 2: Drift Joint at Floor	69
BVP-11K – Isometric Shelf Angle	70

INSTALLATION GUIDELINES

This application guide has been assembled to assist in the application of CCW Barritech VP and Barritech NP and is intended to offer guidance to the construction community. It is intended to be used in conjunction with current CCW published literature. Other acceptable methods of application may be incorporated during construction that are not depicted in this guide provided all applications follow proven and sound construction techniques.

Coordination:

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous air / vapor barrier is achieved across the building envelope.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing and repair procedures.
- Mock-up shall establish procedures and workmanship that must be maintained during installation.
- Review adjacent materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

INSTALLATION GUIDELINES

Substrate

- Ensure all surfaces are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Substrate systems and the structural performance thereof shall be engineered by others.
- Prevent the accumulation of water infiltration behind the substrate.
- Barritech VP/Barritech NP is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.

Project/Site Conditions

- Do not apply Barritech VP/Barritech NP and associated materials in ambient temperatures below 40°F or if temperature is expected to fall below 32°F in the next 16 hours. Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F prevail.
- Do not apply Barritech VP/Barritech NP and associated materials to frozen surfaces.
- Do not apply in rain or if rain is expected during drying time.
- Limit exposure of Barritech VP/Barritech NP and associated products to a maximum of 180 days.

INSTALLATION GUIDELINES

Delivery, Storage and Handling

- Deliver CCW materials in original unopened packages.
- Protect CCW materials during transportation, storage, and installation to avoid physical damage.
- Store CCW materials in cool dry place protected from freezing, direct sunlight and extreme heat.
- Maintain product temperature at or above 45°F during application.

Application

- Protect surrounding areas and surfaces from damage and staining during application of Barritech VP/Barritech NP.
- Apply Barritech VP/Barritech NP and associated products in accordance with current CCW published literature.
- Protect finished work at end of each day to prevent moisture intrusion.
- Ensure a continuous air/vapor barrier is achieved across the building envelope.
- Promptly clean uncured Barritech VP/Barritech NP from hands, tools, surfaces and spray equipment with water. Cured product is cleaned mechanically or by solvent.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Barritech VP/Barritech NP

Installation Instructions

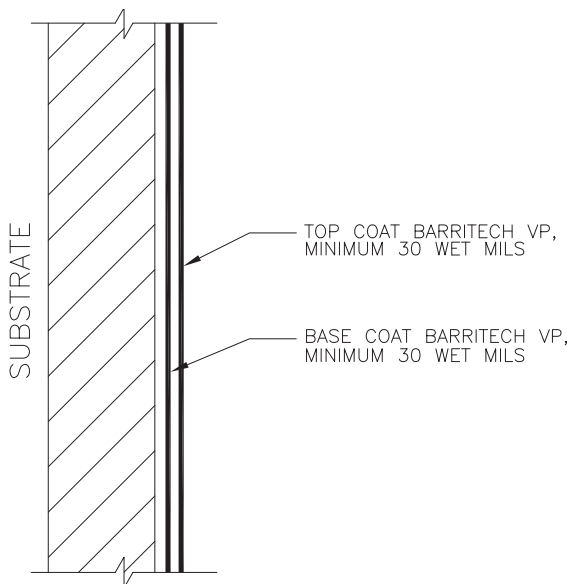
- Ensure all surfaces are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Application

BVP-1A – Option 1: Barritech VP Roller Application

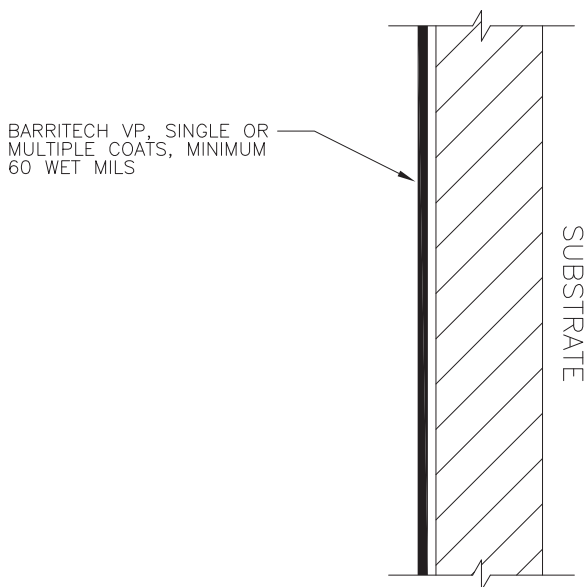


1. For roller application apply base coat Barritech VP minimum 30-wet mils and allow to dry firm before subsequent coat.
2. Apply top coat Barritech VP minimum 30-wet mils.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-1A – Option 2: Barritech VP Spray Application

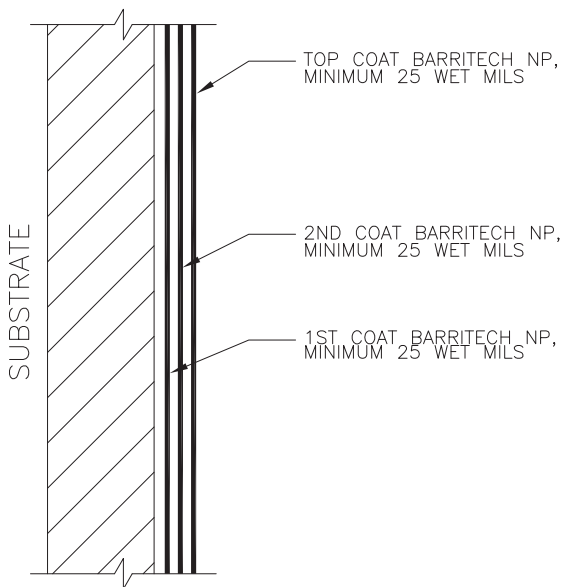


1. For spray application apply Barritech VP in a single or multiple coats to a minimum 60-wet mils.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-1A – Option 1: Barritech NP Roller Application

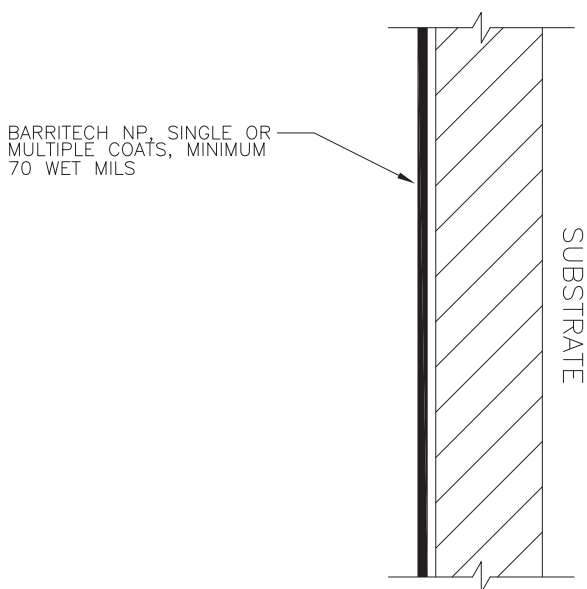


1. For roller application apply 1st base coat Barritech NP minimum 25-wet mils and allow to dry firm before subsequent coat.
2. Apply 2nd base coat Barritech NP minimum 25-wet mils and allow to dry firm before subsequent coat.
3. Apply top coat Barritech NP minimum 25-wet mils.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-1A – Option 2: Barritech NP Spray Application



1. For spray application apply Barritech NP in a single or multiple coats to a minimum 70-wet mils.

INSTALLATION INSTRUCTIONS

Sheathing Joints

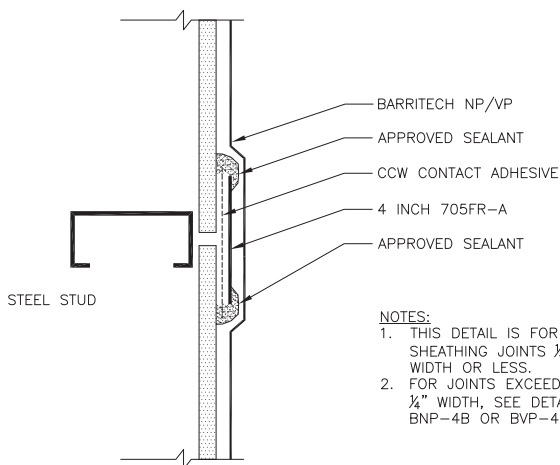
Installation Instructions

- Ensure sheathing is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

BNP-4A/BVP-4A – Option 1: CCW-705FR-A

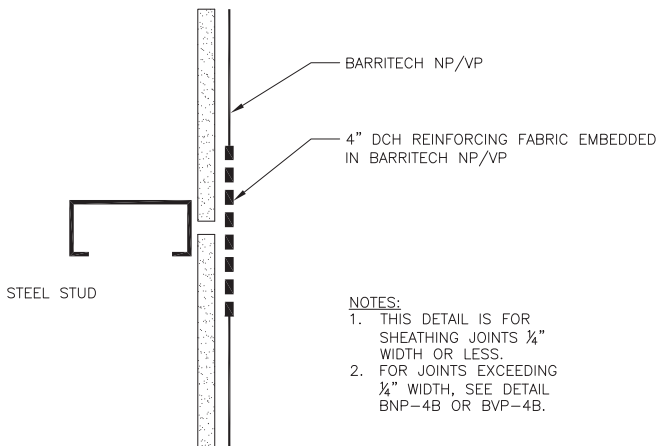


1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending a minimum of 1-inch beyond the edge of minimum 4-inch CCW-705FR-A Strips. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
2. Application of 4-inch CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705FR-A Strips to desired length and apply. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
4. Overlap CCW-705FR-A Strips a minimum of 3-inches horizontally and vertically.
5. Encapsulate the exposed edge of CCW 705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-4A/BVP-4A – Option 2: DCH Reinforcing Fabric

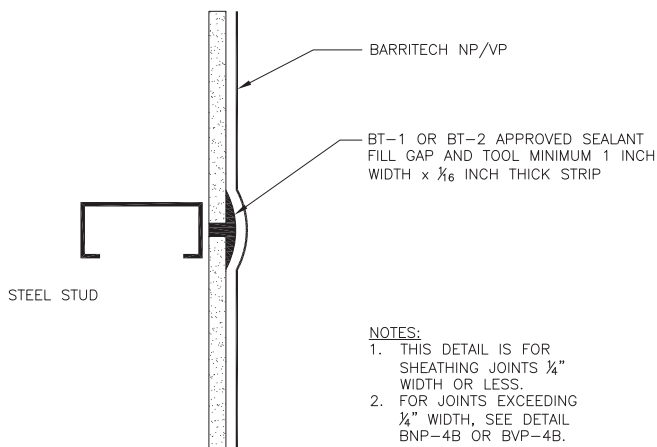


1. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the sheathing joint area extending a minimum 3-inches on either side of the joint.
2. Place a minimum 4-inch wide DCH Reinforcing Fabric into the wet Barritech VP/Barritech NP.
3. Apply additional Barritech VP/Barritech NP (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP/Barritech NP the same day of installation. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP/Barritech NP.
4. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-4A/BVP-4A – Option 3: Approved Sealant

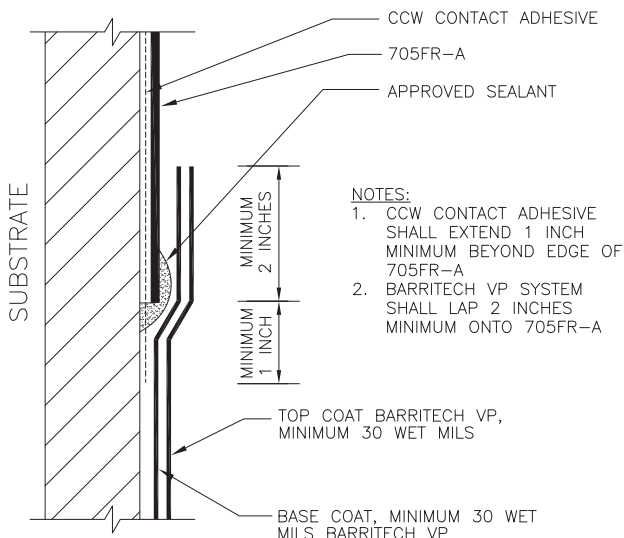


1. Apply approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A) into sheathing joints 1/4-inch or less.
2. Tool sealant a minimum of 1-inch in width by 1/16-inch thick over sheathing joint.
3. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-2A – Option 1: Strip Termination 1 (Roller Applied)

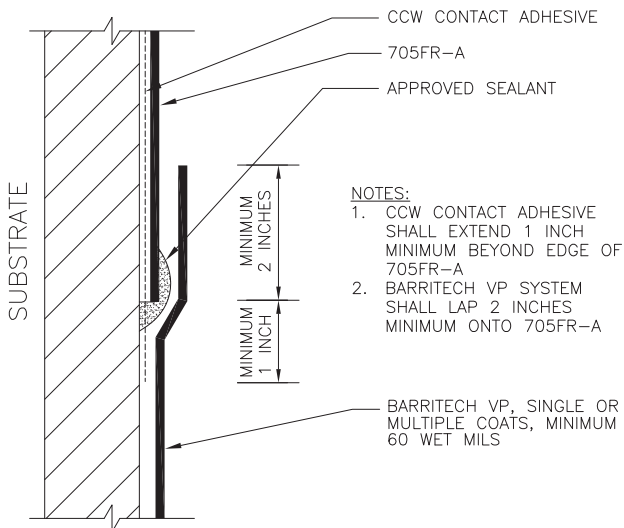


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP or Barritech NP.
2. This occurs both under/over Barritech VP or Barritech NP.
3. Please reference corresponding details BVP 2A-2B and BNP 2A-2B options for each specific condition.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-2A – Option 2: Strip Termination 1 (Spray Applied)

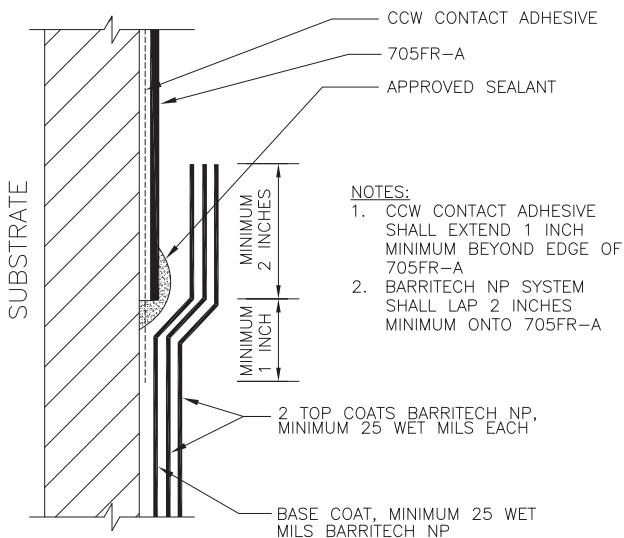


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP or Barritech NP.
2. This occurs both under/over Barritech VP or Barritech NP.
3. Please reference corresponding details BVP 2A-2B and BNP 2A-2B options for each specific condition.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-2A – Option 1: Strip Termination 1 (Roller Applied)

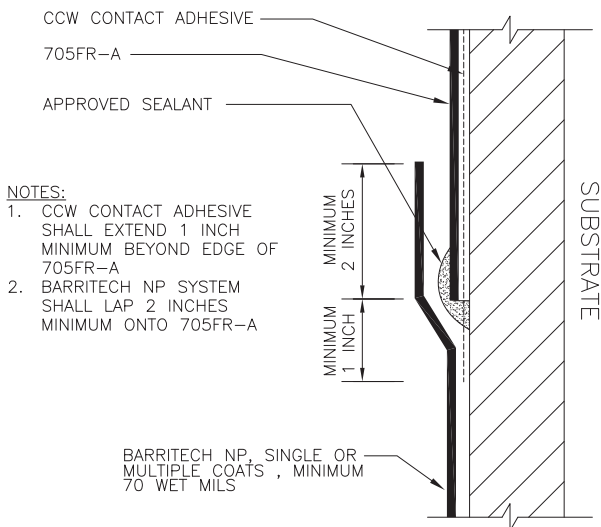


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP or Barritech NP.
2. This occurs both under/over Barritech VP or Barritech NP.
3. Please reference corresponding details BVP 2A-2B and BNP 2A-2B options for each specific condition.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-2A – Option 2: Strip Termination 2 (Spray Applied)

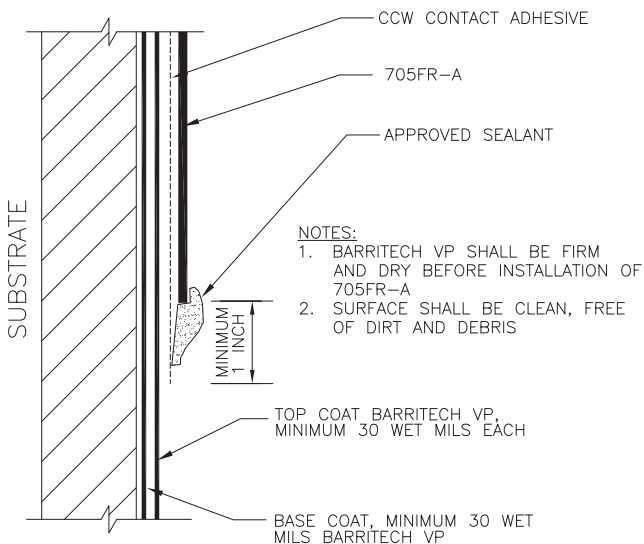


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP or Barritech NP.
2. This occurs both under/over Barritech VP or Barritech NP.
3. Please reference corresponding details BVP 2A-2B and BNP 2A-2B options for each specific condition.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

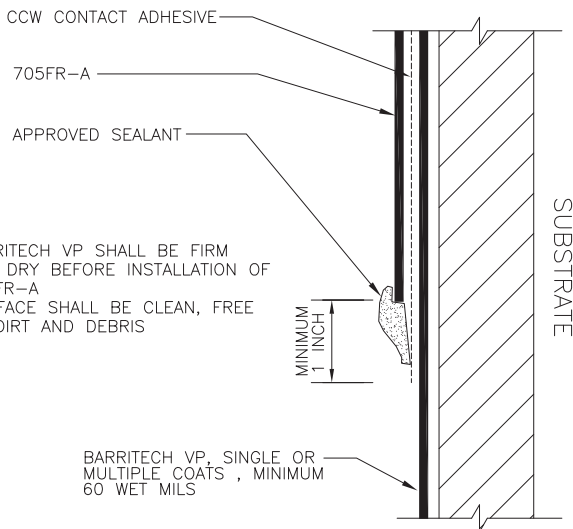
BVP-2B – Option 1: Strip Termination 2



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-2B – Option 2: Strip Termination 2



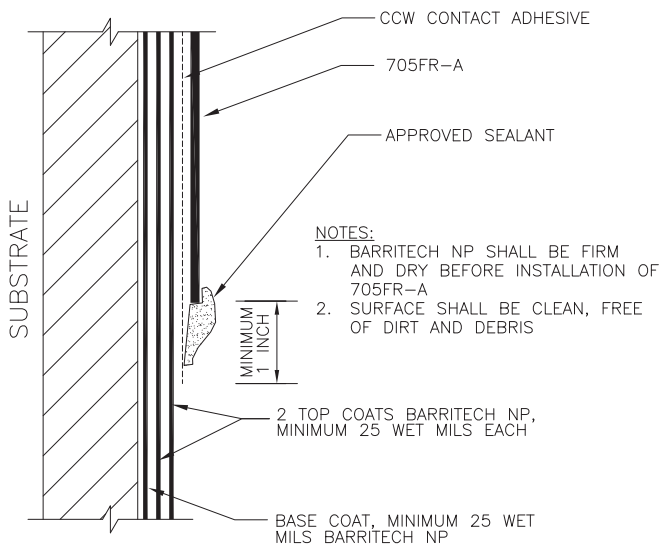
NOTES:

1. BARRITECH VP SHALL BE FIRM AND DRY BEFORE INSTALLATION OF 705FR-A
2. SURFACE SHALL BE CLEAN, FREE OF DIRT AND DEBRIS

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

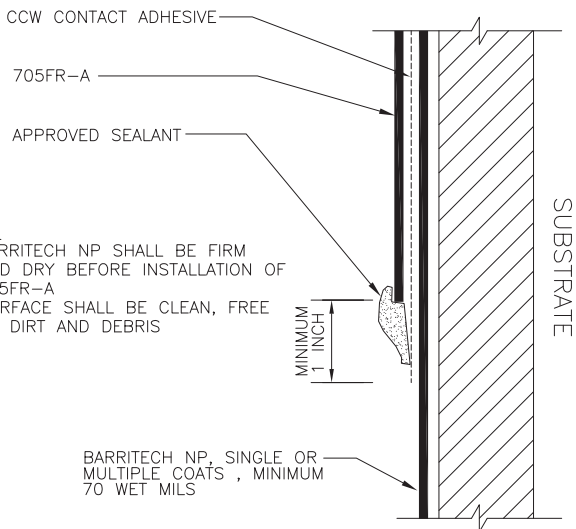
BNP-2B – Option 1: Strip Termination 2



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-2B – Option 2: Strip Termination 2



NOTES:

1. BARRITECH NP SHALL BE FIRM AND DRY BEFORE INSTALLATION OF 705FR-A
2. SURFACE SHALL BE CLEAN, FREE OF DIRT AND DEBRIS

Inside/Outside Corners

Installation Instructions:

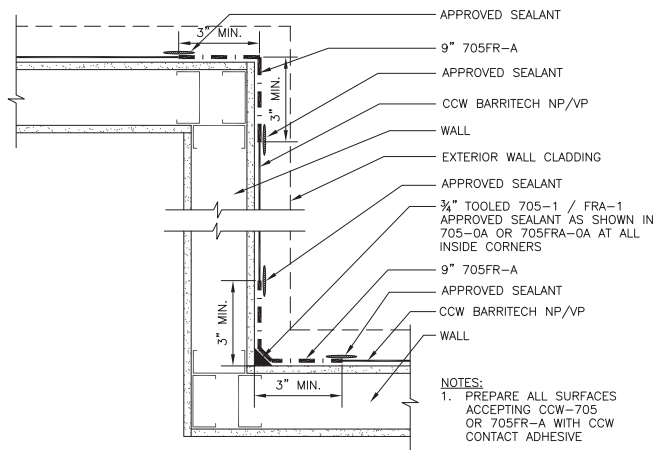
- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Application

BNP-15A/BVP-15A – Option 1: CCW-705FR-A



NOTES:

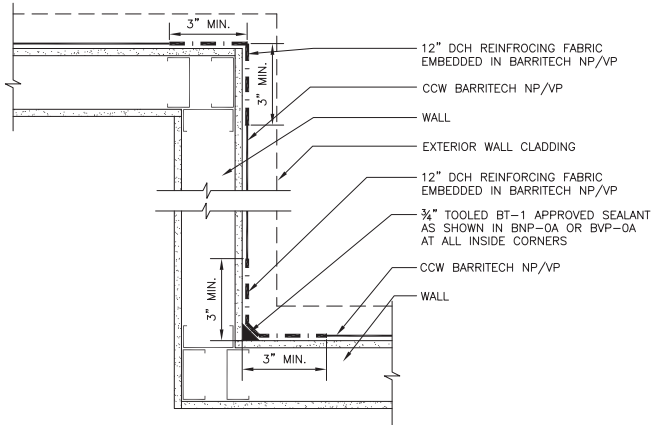
1. PREPARE ALL SURFACES ACCEPTING CCW-705 OR 705FR-A WITH CCW CONTACT ADHESIVE

1. Fill gaps exceeding 1/4-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A). To facilitate installation of CCW-705FR-A an optional 1/2-inch bead of approved sealant applied at all inside corners and horizontal to vertical transitions is recommend.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of minimum 9-inch CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of minimum 9-inch CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto each side of the corner. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705FR-A a minimum of 2-inches horizontally and vertically.
6. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
7. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-15A/BVP-15A – Option 2: DCH Reinforcing Fabric

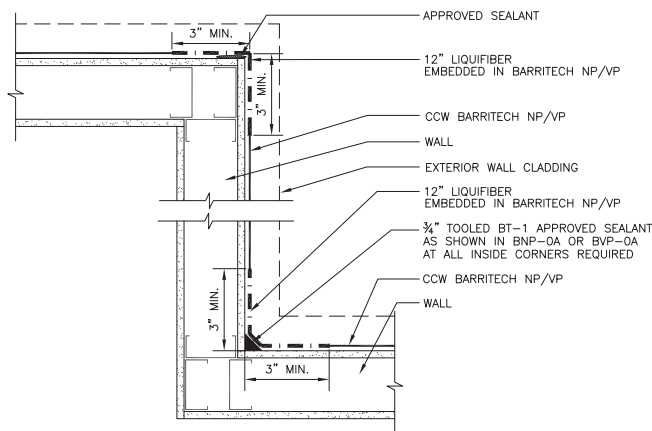


1. Fill sheathing joint gaps exceeding 1/4-inch with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the corner areas extending minimum 7-inches on either side of the corner.
3. Place 12-inch wide DCH Reinforcing Fabric into the wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-15A/BVP-15A – Option 3: CCW LiquiFiber

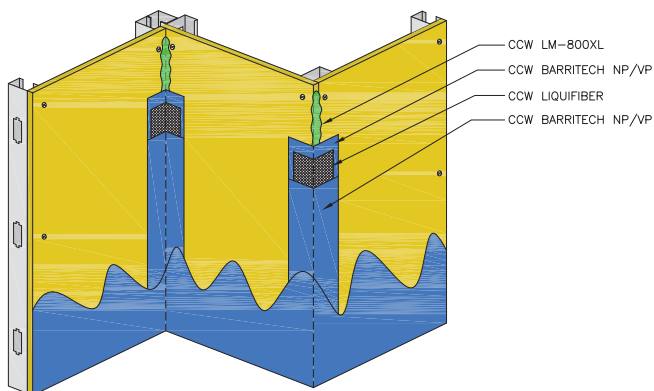


1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the corner area extending minimum 7-inches on either side of the corner.
3. Place 12-inch wide CCW LiquiFiber into the wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-15D – Isometric Corner Reinforcements



Pipe and Mechanical Penetration

Installation Instructions

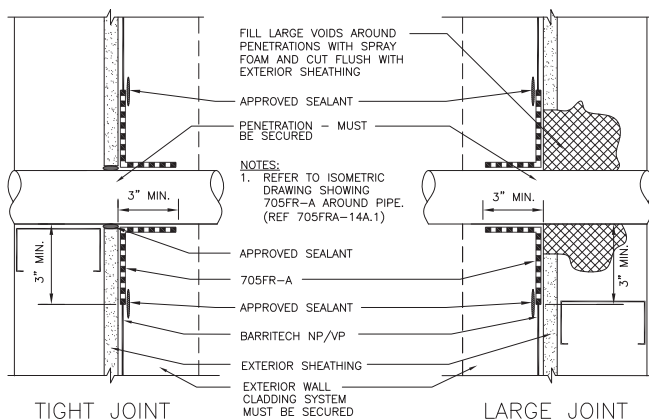
- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixtures or conduit and plumbing penetrations to form a back dam.
- Closed-cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Application:

BNP-14B/BVP-14B – Option 1: CCW-705FR-A

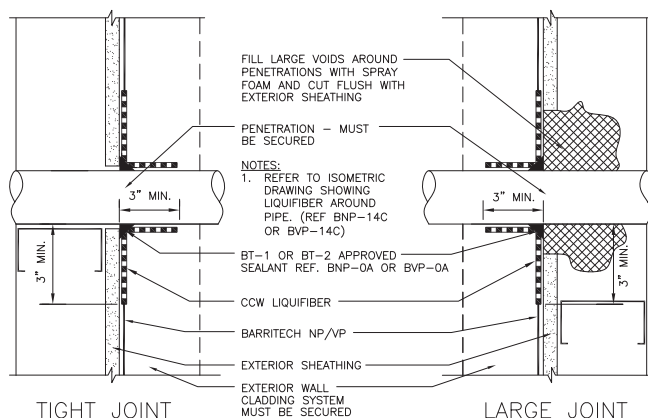


1. Fill gaps exceeding $\frac{1}{4}$ -inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by approved sealant application.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply around the penetration. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply approved sealant at CCW-705FR-A cut edges around the penetration and on the face of the wall prior to installation of CCW Barritech VP/Barritech NP. (Ref. Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A)
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-14B/BVP-14B – Option 2: CCW LiquiFiber

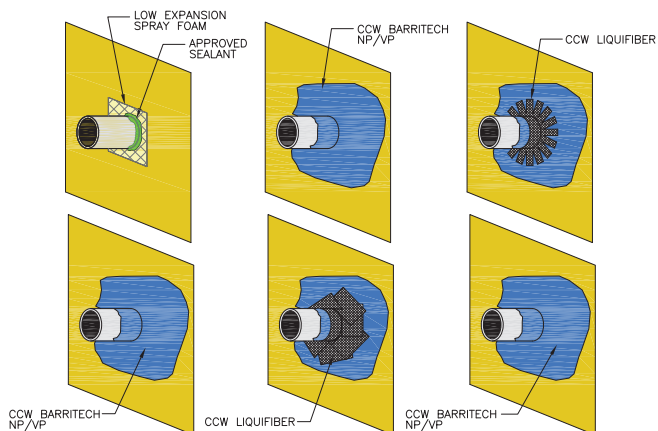


1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by sealant application.
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area.
3. Place CCW LiquiFiber into the wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply additional CCW LiquiFiber into wet Barritech VP/Barritech NP to cover CCW LiquiFiber cuts made to treat the penetration.
6. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
7. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

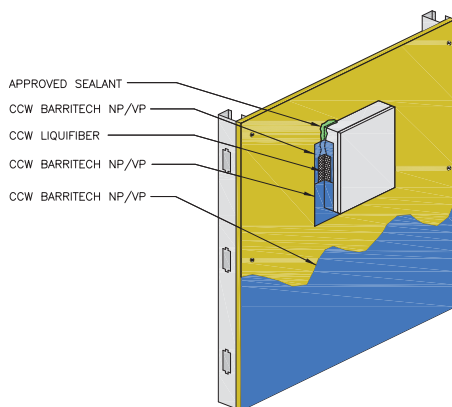
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-14C/BVP-14C – LiquiFiber-W at Pipe Penetration



BNP-14D/BVP-14D – Electrical Box Penetration



Brick Ties

Installation Instructions:

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application:

- Apply Barritech VP/Barritech NP over the substrate in accordance with current CCW published literature.
- Install brick ties in accordance to brick tie manufacturer instructions ensuring fasteners are straight, not over driven and a compression seal is achieved. All holes from mis-driven fasteners must be sealed. Fill all voids around CMU brick ties with mortar or sealant.
- Embedded brick ties shall be treated with Barritech VP/Barritech NP so that an air-tight seal is achieved.

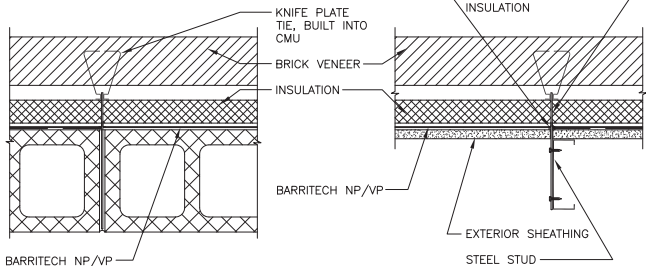
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-6C/BVP-6C – Knife Plate Type Ties CMU and Sheathing

NOTES:

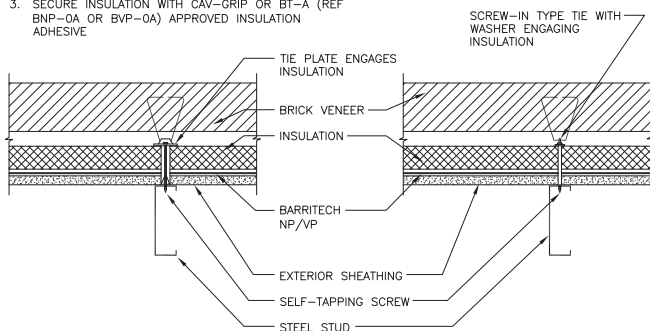
1. TIES ARE IN PLACE BEFORE BARRITECH NP/VP INSTALLATION
2. ON CMU – MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS AND MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE BARRITECH NP/VP INSTALLATION
3. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BNP-0A OR BVP-0A) APPROVED INSULATION ADHESIVE



BNP-6D/BVP-6D – Brick Ties Attached to Stud Through Insulation and Sheathing

NOTES:

1. DRIVE FASTENERS STRAIGHT, DO NOT OVER-DRIVE
2. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH PORTABLE CAN SPRAY FOAM
3. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BNP-0A OR BVP-0A) APPROVED INSULATION ADHESIVE



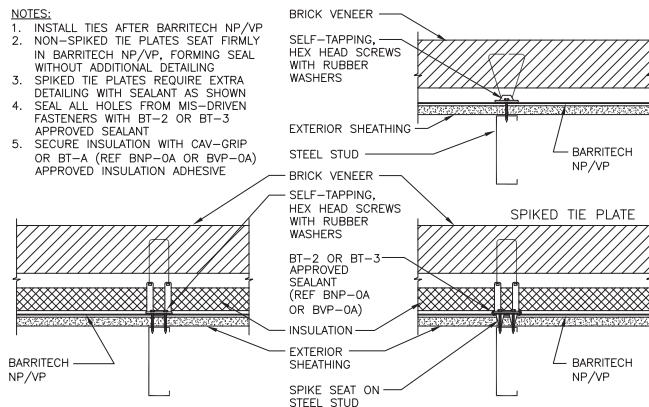
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-6E/BVP-6E – Brick Ties Attached to Stud Through Insulation and Sheathing

NOTES:

1. INSTALL TIES AFTER BARRITECH NP/VP
2. NON-SPIKED TIE PLATES SEAT FIRMLY IN BARRITECH NP/VP, FORMING SEAL WITHOUT ADDITIONAL DETAILING
3. SPIKED TIE PLATES REQUIRE EXTRA DETAILING WITH SEALANT AS SHOWN
4. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH BT-2 OR BT-3 APPROVED SEALANT
5. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BNP-0A OR BVP-0A) APPROVED INSULATION ADHESIVE



Expansion Joint

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application:

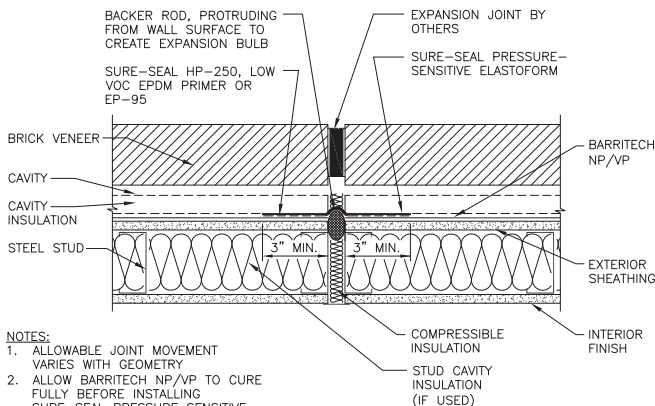
Sure-Seal Pressure-Sensitive Elastoform

- Apply Barritech VP/Barritech NP over the substrate in accordance with current CCW published literature and allow to fully cure.
- Install backer rod into the joint protruding from the wall to create an expansion bulb.
- Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending a minimum of 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
- Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
- Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
- Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.

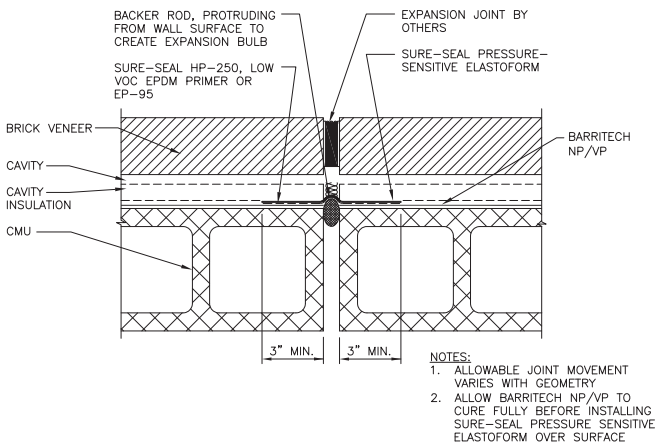
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-3A/BVP-3A – Gypsum Sheathing Vertical Expansion Joint



BNP-3B/BVP-3B – CMU Expansion Joint



Window Rough Opening

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Provide continuous air seal around interior perimeter of window. Contact window manufacturer for specific installation instructions.
- Ensure continuity of air/vapor barrier is maintained at window penetration.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

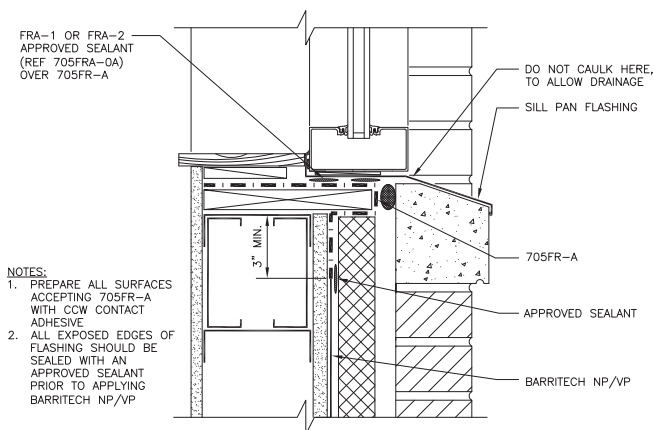
Option 1: CCW-705FR-A at Window Jamb & Head

1. Fill gaps exceeding a 1/4-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending a minimum of 1-inch beyond the edge of CCW-705FR-A Strips. Contact adhesive must be covered the same day of application, Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A Strips to desired length and apply in rough window sill. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Encapsulate the exposed edge of CCW-705FR-A where Barritech VP/Barritech NP will tie-into flashing with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.

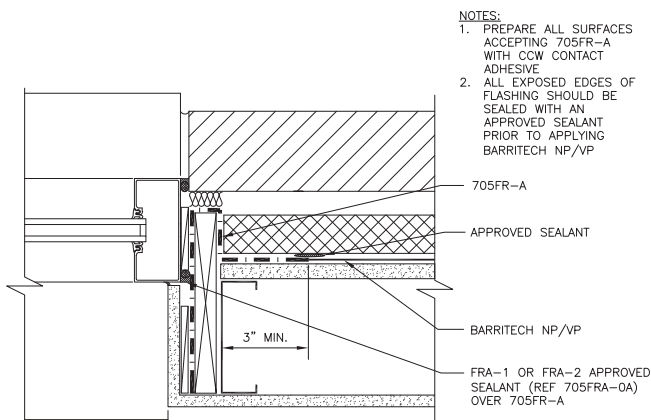
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-5B.1/BVP-5B.1 – Option 1: Punched Window – Sill



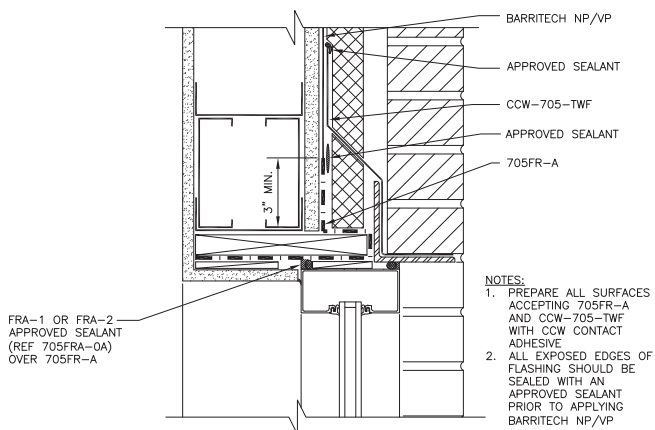
BNP-5B.2/BVP-5B.2 – Option 1: Punched Window – Jamb



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-5B.3/BVP-5B.3 – Option 1: Punched Window – Head



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

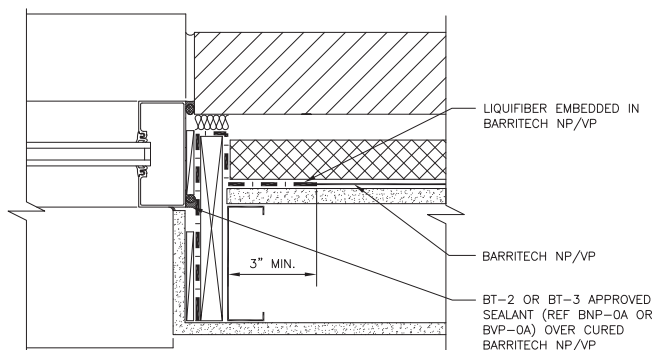
Option 2: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. DO NOT PLACE LIQUIFIBER-W into Window Sill. Place a Minimum 9-inch strip of CCW 705FR-A into the Window Sill, extending a minimum of 3-inches. (Reference BVP-5B.1/BNP-5B.1)
3. Apply an approved sealant over the cut edges of the CCW 705FR-A, allowing to cure prior to installation of Barritech VP/Barritech NP.
4. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) in rough window opening and onto face extending the material a minimum of 1-inch beyond the edge of CCW LiquiFiber.
5. Place CCW LiquiFiber into the wet Barritech VP/Barritech NP at window jamb 1st and the window head last..
6. Apply additional Barritech VP/Barritech NP (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
7. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

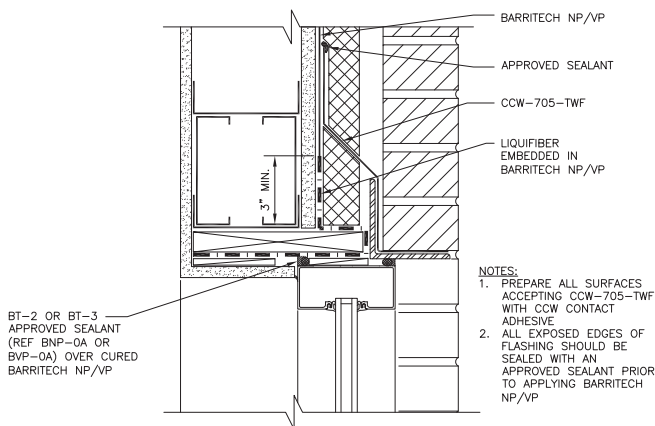
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-5B.2/BVP-5B.2 – Option 2: Punched Window – Jamb



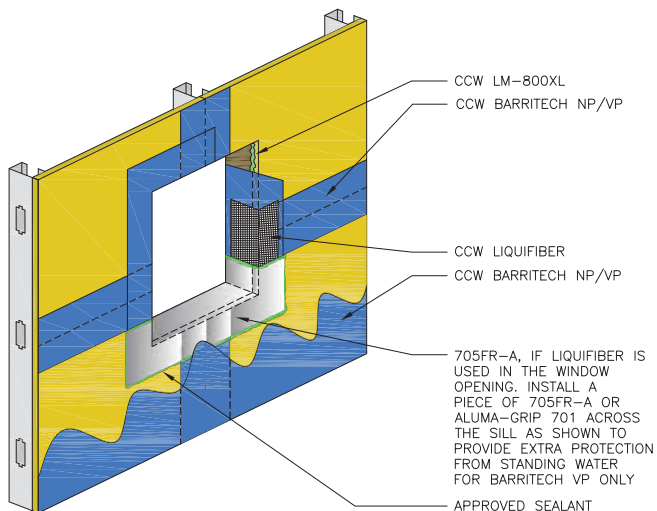
BNP-5B.3/BVP-5B.3 – Option 2: Punched Window – Head



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-17 – Isometric Rough Opening Sill, Jamb and Head



INSTALLATION INSTRUCTIONS

Parapet

Installation Instructions:

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at wall to roof transition.
- Verify blocking is installed and secured per design.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application:

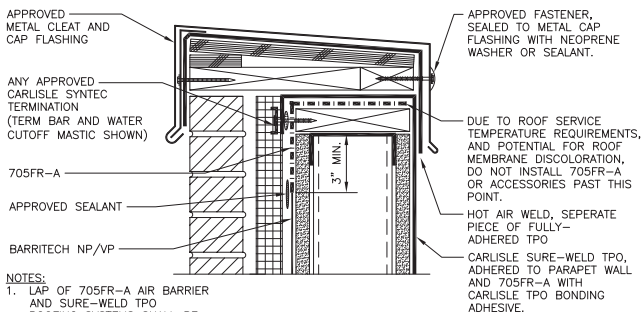
Option 1: CCW-705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of the CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705FR-A a minimum of 3-inches horizontally and vertically.
6. CCW Barritech VP, Barritech NP, CCW 705, CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system or vice versa.
7. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
8. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
9. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BARRITECH VP/BARRITECH NP

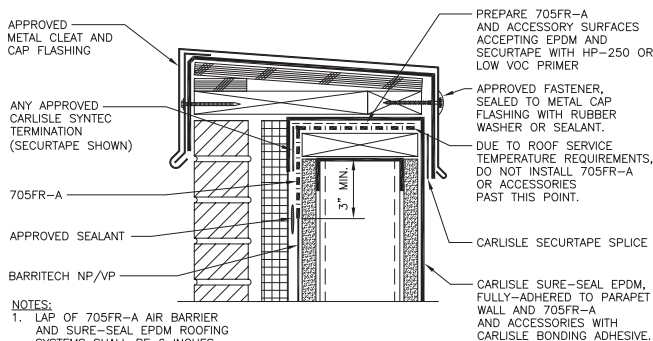
INSTALLATION INSTRUCTIONS

BNP-11C/BVP-11C – Option 1: Tie-in to TPO Roof at Parapet



1st: BARRITECH NP/VP AIR BARRIER
2nd: SURE-WELD TPO ROOFING

BNP-11E/BVP-11E – Option 1: Tie-in to EPDM Roof at Parapet



1st: BARRITECH NP/VP AIR BARRIER
2nd: SURE-SEAL EPDM ROOF

INSTALLATION INSTRUCTIONS

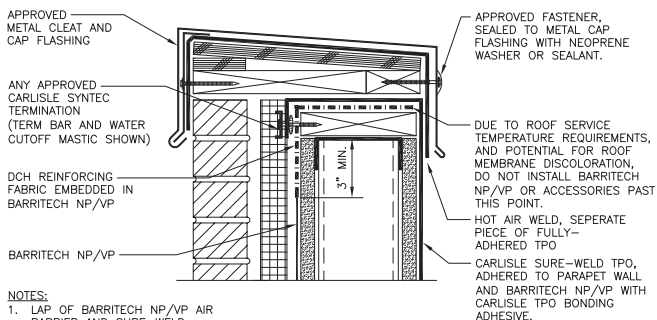
Option 2: DCH Reinforcing Fabric

1. Fill sheathing joint gaps exceeding ¼-inch with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the DCH Reinforcing Fabric.
3. Place the DCH Reinforcing Fabric into the wet Barritech VP/Barritech NP ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-11C/BVP-11C – Option 2: Tie-In to TPO Roof at Parapet

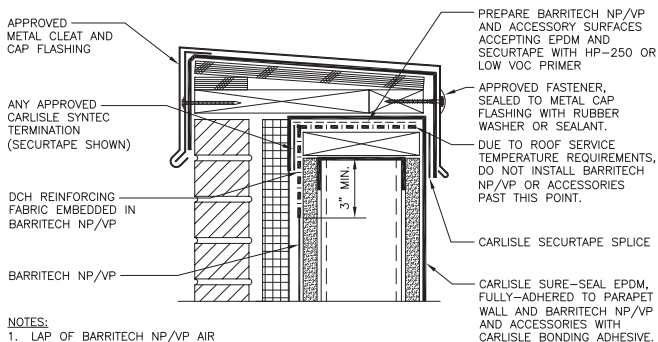


NOTES:

1. LAP OF BARRITECH NP/VP AIR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: BARRITECH NP/VP AIR BARRIER
2nd: SURE-WELD TPO ROOFING

BNP-11E/BVP-11E – Option 2: Tie-In to EPDM Roof at Parapet



NOTES:

1. LAP OF BARRITECH NP/VP AIR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

1st: BARRITECH NP/VP AIR BARRIER
2nd: SURE-SEAL EPDM ROOF

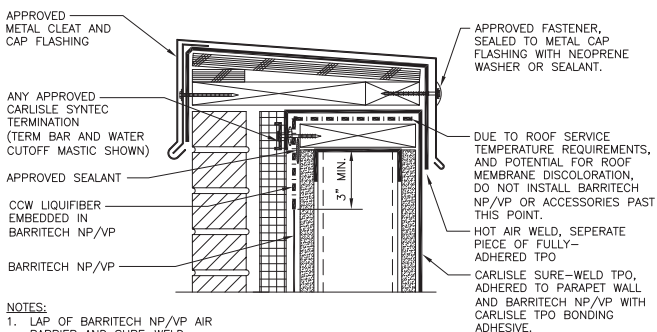
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the CCW LiquiFiber.
3. Place the CCW LiquiFiber into the wet Barritech VP/Barritech NP ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BNP-11C/BVP-11C – Option 3: Tie-In to TPO Roof at Parapet



NOTES:

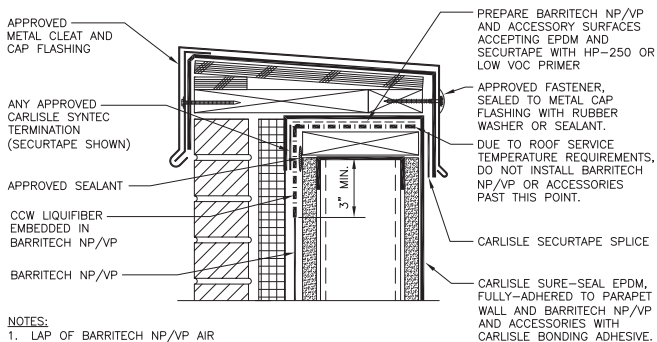
1. LAP OF BARRITECH NP/VP AIR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: BARRITECH NP/VP AIR BARRIER
2nd: SURE-WELD TPO ROOFING

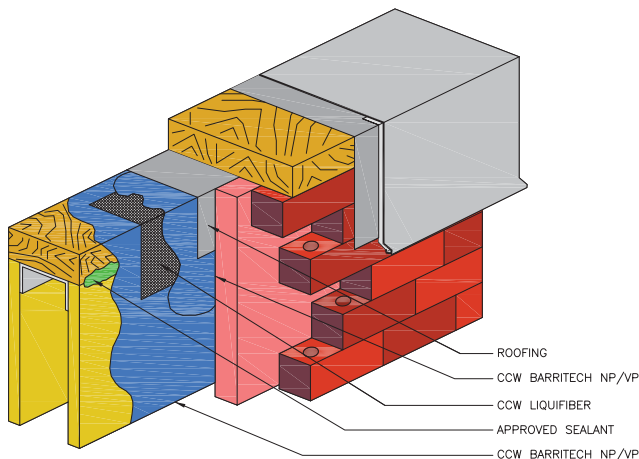
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-11E/BVP-11E – Option 3: Tie-In to EPDM Roof at Parapet



BNP-11J/BVP-11J – Isometric Parapet Edge Flashing



INSTALLATION INSTRUCTIONS

Foundation

Installation Instructions:

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at foundation to wall transition.
- Verify waterproofing has been completed and all materials are compatible at tie-in locations.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Application:

Option 1: CCW-705FR-A

1. Fill gaps exceeding 1/4-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending minimum of 1-inch beyond the edge of CCW-705FR-A Strips onto the compatible waterproofing membrane.
3. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
7. Install CCW-705 TWF through wall flashing, per design.

BNP-16A/BVP-16A – Option 1: Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF, 705FR-A AND MIRADRIL-860/861 SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

APPROVED SEALANT

9" 705FR-A

APPROVED SEALANT

MIRADRIL 860/861 STRIP.

LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

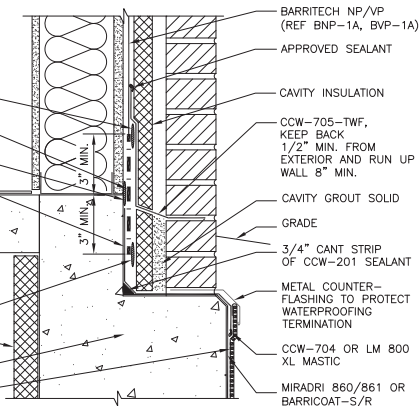
SLAB

APPROVED SEALANT

BELOW GRADE INSULATION. R-VALUE TO CODE

FOUNDATION

CCW MIRADRIL DRAINAGE COMPOSITE



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

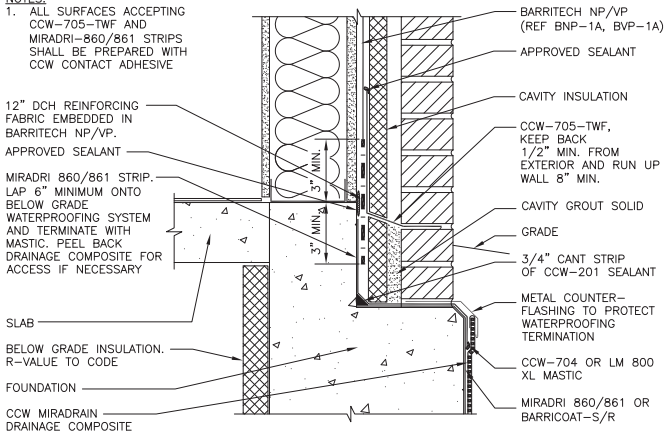
Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the compatible waterproofing membrane.
3. Place DCH Reinforcing Fabric into the wet Barritech VP/Barritech NP. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
6. Install CCW-705-TWF through wall flashing, per design.

BNP-16A/BVP-16A – Option 2: Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF AND MIRADRIL-860/861 STRIPS SHALL BE PREPARED WITH CCW CONTACT ADHESIVE



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

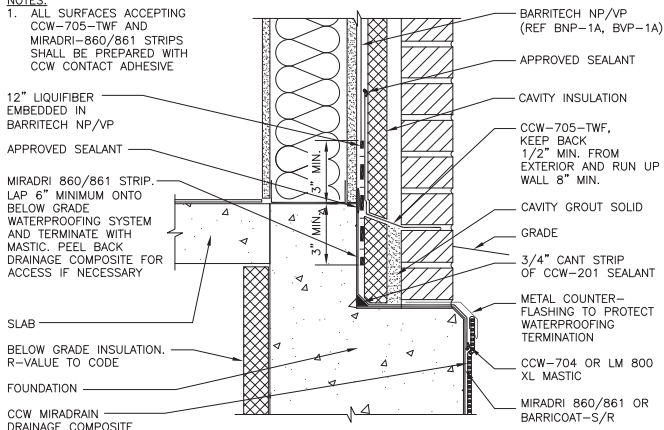
Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
6. Install CCW-705-TWF through wall flashing, per design.

BNP-16A/BVP-16A – Option 3: Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF AND MIRADRI-860/861 STRIPS SHALL BE PREPARED WITH CCW CONTACT ADHESIVE



Shelf Angle Through-Wall Flashing

Installation Instructions:

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application:

Treatment prior to shelf angle installation

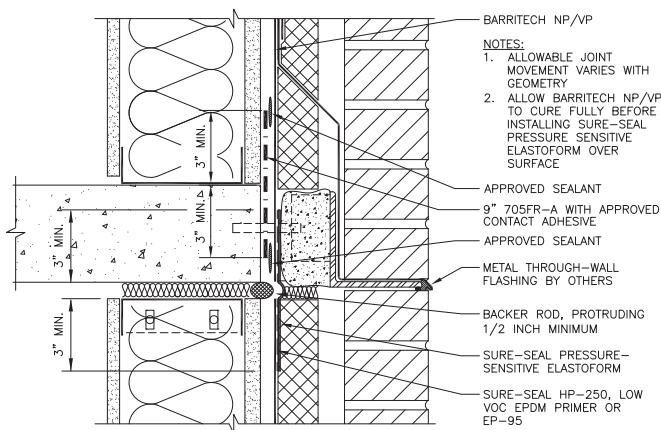
Option 1: CCW-705FR-A

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705FR-A Strips.
2. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
4. Encapsulate the exposed edge of CCW- 705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
5. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
10. Install backing, shelf angle and insulation.
11. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BNP-7B/BVP-7B – Option 1: Drift Joint at Floor



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the sheathing and concrete slab.
3. Place DCH Reinforcing Fabric into the wet Barritech VP/Barritech NP. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

INSTALLATION INSTRUCTIONS

[illegible]

BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A)..
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet Barritech VP/Barritech NP.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply Barritech VP /Barritech NP in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

BARRITECH VP/BARRITECH NP

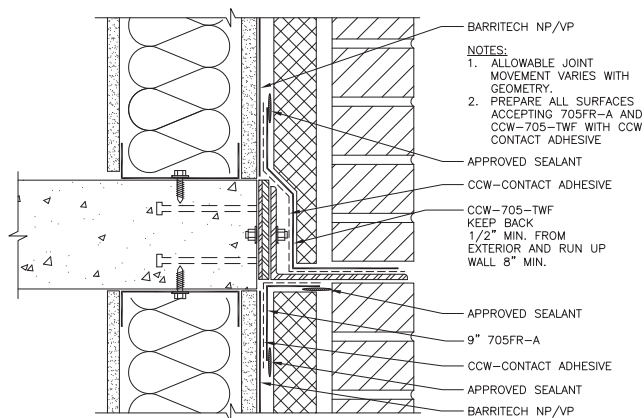
INSTALLATION INSTRUCTIONS

Treatment with shelf angle installed

Option 1: CCW-705FR-A

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705FR-A Strips over the top and underside of steel angle.
2. Application of CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705FR-A to desired length and apply a minimum of 3-inches above the steel angle, bringing the CCW-705FR-A down so that it terminates $\frac{1}{2}$ -inch from brick face. Apply CCW-705FR-A a minimum of 3-inches on to the underside of the steel angle and substrate. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
4. Overlap CCW-705FR-A horizontally minimum of 2-inches.
5. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP/Barritech NP.
6. Apply Barritech VP/Barritech NP in accordance with current CCW published literature.

BNP-7C/BVP-7C – Option 1: Drift Joint at Floor



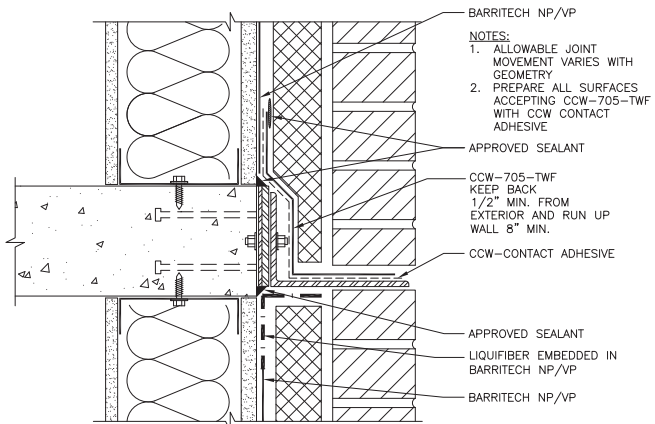
BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

Option 2: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP/Barritech NP (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible membrane on to top and bottom of the steel angle.
3. Place CCW LiquiFiber into the wet Barritech VP/Barritech NP bringing the CCW LiquiFiber down so that it terminates a ½-inch from the brick face on top of the steel angle and minimum 3-inches of the angle on the underside.
4. Apply additional Barritech VP/Barritech NP (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP/Barritech NP the same day of installation.
5. Apply Barritech VP /Barritech NP in accordance with current CCW published literature.

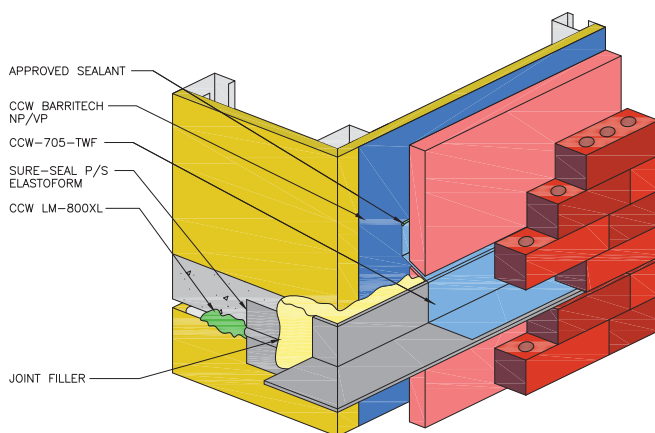
BNP-7C/BVP-7C – Option 2: Drift Joint at Floor



BARRITECH VP/BARRITECH NP

INSTALLATION INSTRUCTIONS

BVP-11K – Isometric Shelf Angle



BARRITECH VP-LT

TABLE OF CONTENTS

Installation Guidelines.....	78
Coordination	78
Substrate	79
Project/Site Conditions.....	79
Delivery, Storage and Handling	80
Application	80
Barritech VP-LT Installation Instructions	81
BVPLT-1A – Option 1: Barritech VP-LT Roller Application.....	82
BVPLT-1A – Option 2: Barritech VP-LT Spray Application.....	83
Sheathing Joints Installation Instructions	84
BVPLT-4A – Option 1: CCW-DCH Reinforcing Fabric.....	85
BVPLT-4A – Option 2: Approved Sealant.....	86
BVPLT-4C – CMU Control Joint.....	87
BVPLT-2A – Strip Termination 1 (Roller Applied)	88
BVPLT-2A – Strip Termination 1 (Spray Applied)	89
BVPLT-2B – Strip Termination 2 (Roller Applied)	90
BVPLT-2B – Strip Termination 2 (Spray Applied)	91
Inside/Outside Corners Installation Instructions	92
BVPLT-15A – Option 1: CCW-705FR-A.....	93
BVPLT-15A – Option 2: CCW DCH Reinforcing Fabric	94
BVPLT-15A – Option 3: CCW LiquiFiber	95
Pipe and Mechanical Penetration Installation Instructions.....	96
BVP-LT-14A – Pipe Penetration CCW-705FR-A.....	97
BVP-LT-14B – Pipe Penetration CCW-LiquiFiber	98
BVPLT-14C – LiquiFiber-W at Pipe Penetration	99
Brick Ties Installation Instructions.....	100
BVPLT-6B – Brick Ties – CMU	101
BVPLT-6C – Knife Plate Type Ties CMU and Sheathing.....	101
BVPLT-6D – Brick Ties Attached to Stud Through Insulation and Sheathing	102
BVPLT-6E – 2-Screw Brick Ties Attached to Stud	102
Expansion Joint Installation Instructions.....	103
Application: Sure-Seal Pressure-Sensitive Elastoform	103
BVPLT-3A – Gypsum Sheathing Vertical Expansion Joint	104
BVPLT-3B – CMU Expansion Joint	104

TABLE OF CONTENTS

Window Rough Opening Installation Instructions.....	105
Option 1: CCW-705FR-A	105
BVPLT-5B.1 – Punched Window Sill CCW 705FR-A.....	106
BVPLT-5B.2 – Punched Window Jamb CCW 705FR-A.....	106
BVPLT-5B.3 – Punched Window Head CCW 705FR-A	107
Option 2: CCW LiquiFiber	108
BVPLT-5B.1 – Option 2: Punched Window – Sill.....	109
BVPLT-5B.2 – Option 2: Punched Window – Jamb.....	110
BVPLT-5B.3 – Option 2: Punched Window – Head	111
BVP-17 – Isometric Rough Opening Sill, Jamb and Head.....	112
 Parapet Installation Instructions	 113
Option 1: CCW-705FR-A	114
BVPLT-11A – Option 1: Tie-in to PVC Roof at Parapet CCW 705FR-A.....	115
BVPLT-11C – Option 1: Tie-in to TPO Roof at Parapet CCW 705FR-A.....	115
BVPLT-11E – Option 1: Tie-in to EPDM Roof at Parapet CCW 705FR-A.....	116
Option 2: DCH Reinforcing Fabric	117
BVPLT-11A – Option 2: Tie-in to PVC Roof at Parapet CCW DCH Reinforcing Fabric.....	117
BVP-11D – Option 2: Tie-in to TPO Roof at Parapet CCW DCH Reinforcing Fabric.....	118
BVP-11F – Option 2: Tie-in to EPDM Roof at Parapet CCW DCH Reinforcing Fabric.....	118
Option 3: CCW LiquiFiber	119
BVPLT-11A – Option 3: Tie-in to PVC Roof at Parapet CCW LiquiFiber	119
BVPLT-11C – Option 3: Tie-In to TPO Roof at Parapet CCW LiquiFiber	120
BVP-11E – Option 3: Tie-in to EPDM Roof at Parapet CCW LiquiFiber	120
 Foundation Installation Instructions.....	 121
Option 1: CCW-705FR-A	122
BVPLT-16A – Option 1: Foundation Tie-In	123
Option 2: DCH Reinforcing Fabric	124
BVPLT-16A – Option 2: Foundation Tie-In CCW DCH Reinforcing Fabric.....	124
Option 3: CCW LiquiFiber	125
BVPLT-16A – Option 3: Foundation Tie-In Option 3	125

BARRITECH VP-LT

TABLE OF CONTENTS

Shelf Angle Through-Wall Flashing Installation Instructions	126
Application: Treatment prior to shelf angle installation.....	126
Option 1: CCW-705FR-A	126
BVPLT-7B – Option 1: Drift Joint at Floor CCW 705-FR-A.....	127
Option 2: DCH Reinforcing Fabric	128
BVPLT-7B – Option 2: Drift Joint at Floor CCW	
DCH Reinforcing Fabric	129
Option 3: CCW LiquiFiber	130
BVPLT-7B – Option 3: Drift Joint at Floor CCW LiquiFiber.....	131
 Barritech VP/Barritech VP-LT/Barritech NP	
Adhesion and Chemical Compatibility	132
Barritech NP with Generic Building Materials	132
Barritech NP with Other Carlisle Products	133
Barritech VP/Barritech VP-LT with Generic Building Materials.....	134
Barritech VP/Barritech VP-LT with Other Carlisle Products	135
 Barritech VP/Barritech VP-LT/Barritech NP	
Chemical Resistance.....	136
Barritech NP	136
Barritech VP/Barritech VP-LT	137

INSTALLATION GUIDELINES

This application guide has been assembled to assist in the application of CCW Barritech VP-LT and is intended to offer guidance to the construction community. It is intended to be used in conjunction with current CCW published literature. Other acceptable methods of application may be incorporated during construction that are not depicted in this guide provided all applications follow proven and sound construction techniques.

Coordination:

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous air / vapor barrier is achieved across the building envelope.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing, and repair procedures.
- Mock-up shall establish procedures and workmanship that must be maintained during installation.
- Review adjacent materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

INSTALLATION GUIDELINES

Substrate

- Ensure all surfaces are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Substrate systems and the structural performance thereof shall be engineered by others.
- Prevent the accumulation of water infiltration behind the substrate.
- Barritech VP-LT is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.

Project/Site Conditions

- Barritech VP-LT installation is permitted in sub-freezing conditions as low as 15°F.
- Do not apply Barritech VP-LT and associated materials to wet or frosty substrates.
- Do not apply in rain or if rain is expected during drying time.
- Limit exposure of Barritech VP-LT and associated products to a maximum of 180 days.

INSTALLATION GUIDELINES

Delivery, Storage and Handling

- Deliver CCW materials in original unopened packages.
- Protect CCW materials during transportation, storage, and installation to avoid physical damage.
- Store CCW materials in cool dry place protected from freezing, direct sunlight and extreme heat.
- Maintain product temperature at or above 45°F during application.

Application

- Protect surrounding areas and surfaces from damage and staining during application of Barritech VP-LT.
- Apply Barritech VP-LT and associated products in accordance with current CCW published literature.
- Protect finished work at end of each day to prevent moisture intrusion.
- Ensure a continuous air/vapor barrier is achieved across the building envelope.
- Promptly clean uncured Barritech VP-LT from hands, tools, surfaces and spray equipment with water. Cured product is cleaned mechanically or by solvent.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Barritech VP-LT

Installation Instructions

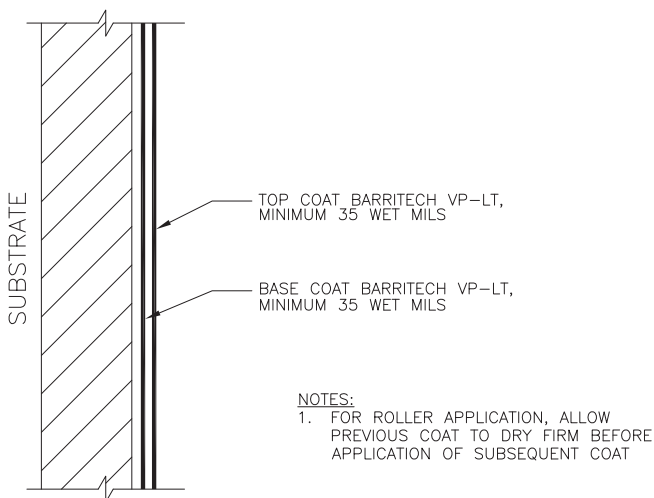
- Ensure all surfaces are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

Application

BVPLT-1A – Option 1: Barritech VP-LT Roller Application

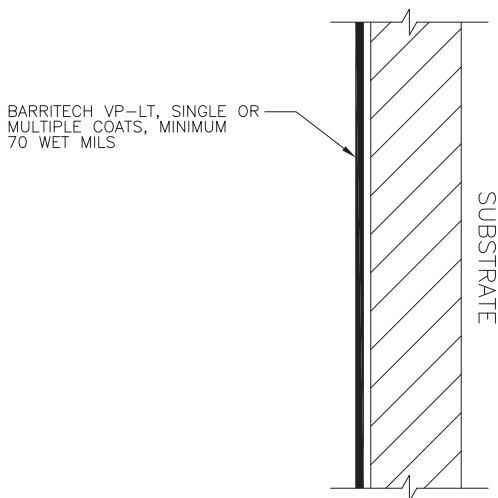


1. For roller application apply base coat Barritech VP minimum 35-wet mils and allow to dry firm before subsequent coat.
2. Apply top coat Barritech VP minimum 35-wet mils.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-1A – Option 2: Barritech VP-LT Spray Application



1. For spray application apply Barritech VP-LT in a single or multiple coats to a minimum 70-wet mils.

INSTALLATION INSTRUCTIONS

Sheathing Joints

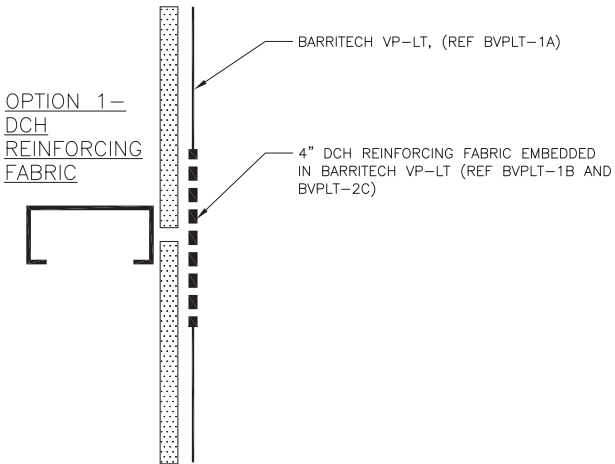
Installation Instructions

- Ensure sheathing is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-4A – Option 1: CCW-DCH Reinforcing Fabric



NOTES:

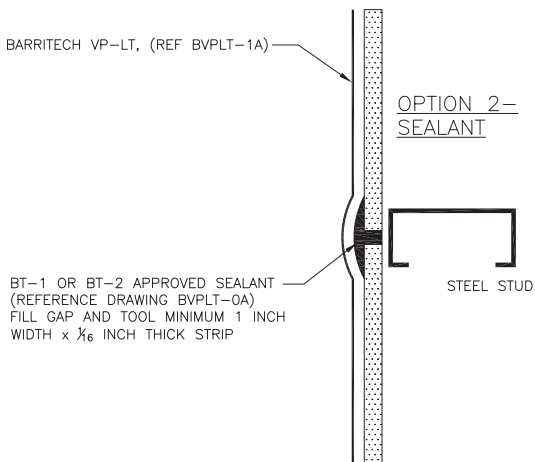
1. THIS DETAIL IS FOR SHEATHING JOINTS $\frac{1}{4}$ " WIDTH OR LESS.
2. FOR JOINTS EXCEEDING $\frac{1}{4}$ " WIDTH, SEE DETAIL BVPLT-4B.

1. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the sheathing joint area extending a minimum 3-inches on either side of the joint.
2. Place a minimum 4-inch wide DCH Reinforcing Fabric into the wet Barritech VP-LT.
3. Apply additional Barritech VP-LT (35 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP-LT the same day of installation. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP-LT.
4. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-4A – Option 2: Approved Sealant



NOTES:

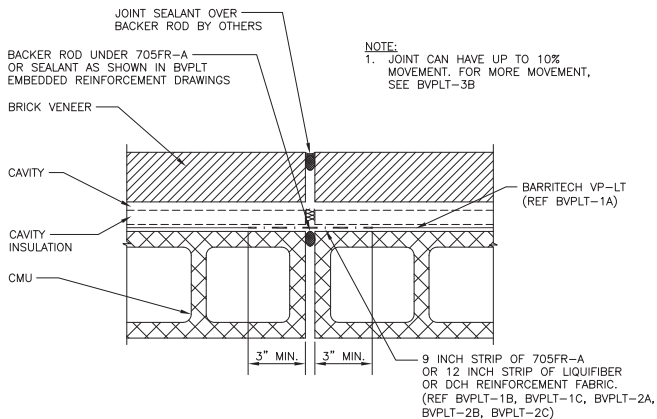
1. THIS DETAIL IS FOR SHEATHING JOINTS $\frac{1}{4}$ " WIDTH OR LESS.
2. FOR JOINTS EXCEEDING $\frac{1}{4}$ " WIDTH, SEE DETAIL BVPLT-4B.

1. Apply approved sealant (reference Group BT-1 and Group BT-2 on details BVPLT-0A) into sheathing joints $\frac{1}{4}$ -inch or less.
2. Tool sealant a minimum of 1-inch in width by $\frac{1}{16}$ -inch thick over sheathing joint.
3. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

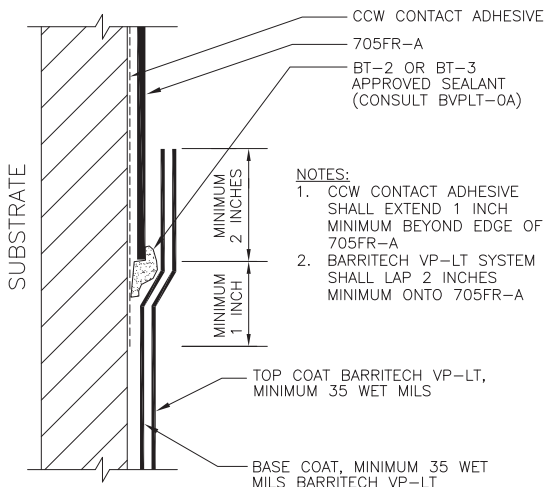
BVPLT-4C – CMU Control Joint



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-2A – Strip Termination 1 (Roller Applied)

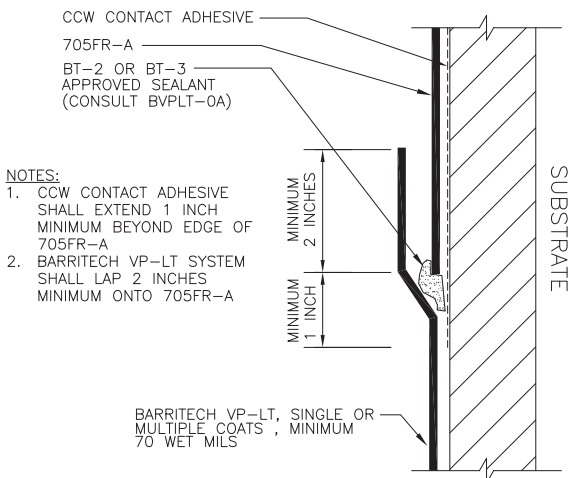


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP-LT.
2. This occurs both under/over Barritech VP-LT.
3. Please reference corresponding details BVP-LT 2A-2B options for each specific condition.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-2A – Strip Termination 1 (Spray Applied)

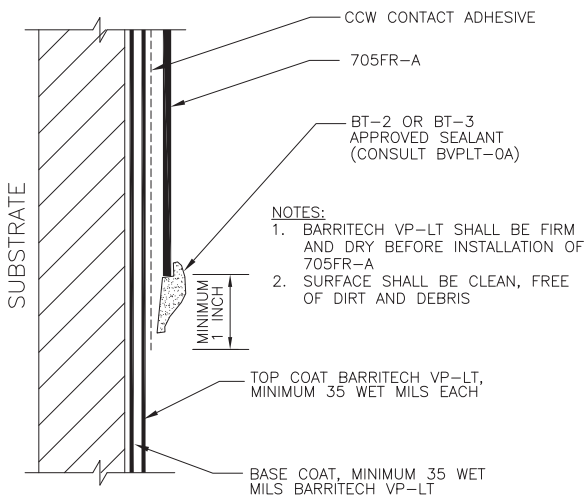


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP-LT.
2. This occurs both under/over Barritech VP-LT.
3. Please reference corresponding details BVP-LT 2A-2B options for each specific condition.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-2B – Strip Termination 2 (Roller Applied)

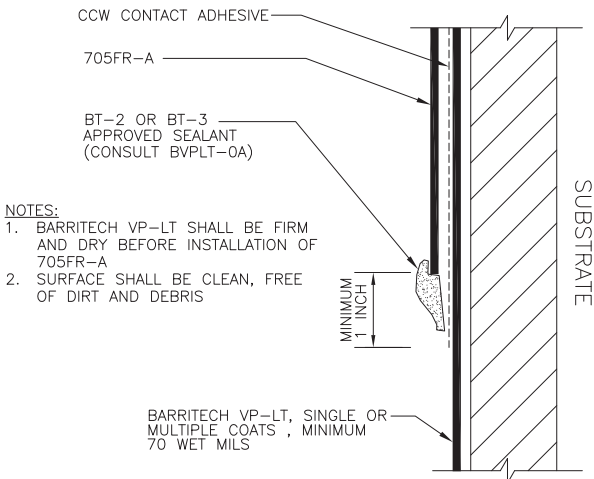


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP-LT.
2. This occurs both under/over Barritech VP-LT.
3. Please reference corresponding details BVP-LT 2A-2B options for each specific condition.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-2B – Strip Termination 2 (Spray Applied)



1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings must be encapsulated by an Approved Sealant prior to applying Barritech VP-LT.
2. This occurs both under/over Barritech VP-LT.
3. Please reference corresponding details BVP-LT 2A-2B options for each specific condition.

INSTALLATION INSTRUCTIONS

Inside/Outside Corners

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-15A – Option 1: CCW-705FR-A

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF, 705FR-A AND MIRADRI-860/861 SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

APPROVED SEALANT

9" 705FR-A

APPROVED SEALANT

MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

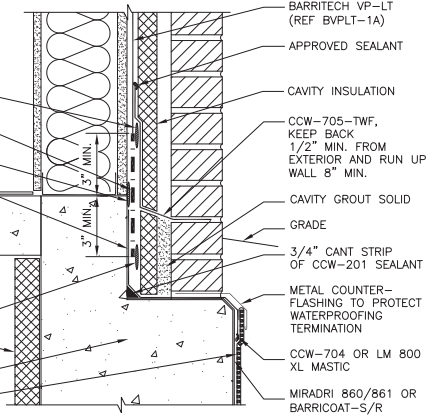
SLAB

APPROVED SEALANT

BELOW GRADE INSULATION, R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN DRAINAGE COMPOSITE

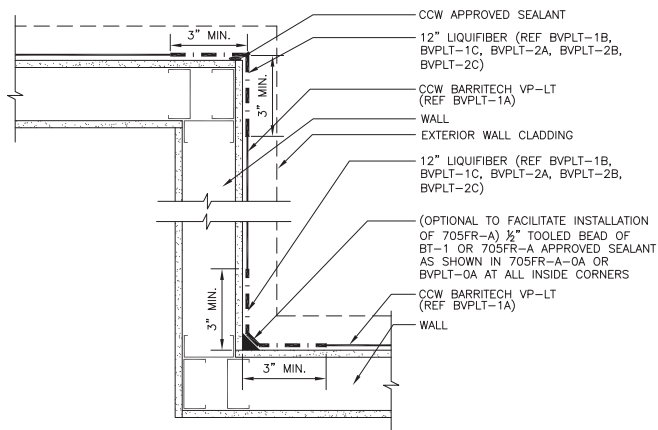


1. Fill gaps exceeding $\frac{1}{4}$ -inch with approved sealant (reference Group FR-A-1 and Group FRA-2 on detail CCW-705FR-A-0A). To facilitate installation of CCW-705FR-A an optional $\frac{1}{2}$ -inch bead of approved sealant applied at all inside corners and horizontal to vertical transitions is recommend.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of minimum 9-inch CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of minimum 9-inch CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto each side of the corner. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705FR-A a minimum of 3-inches horizontally and vertically.
6. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP-LT.
7. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-15A – Option 3: CCW LiquiFiber



1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the corner area extending minimum 7-inches on either side of the corner.
3. Place 12-inch wide CCW LiquiFiber into the wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet Barritech VP-LT.
6. Apply Barritech VP-LT in accordance with current CCW published literature.

INSTALLATION INSTRUCTIONS

Pipe and Mechanical Penetration

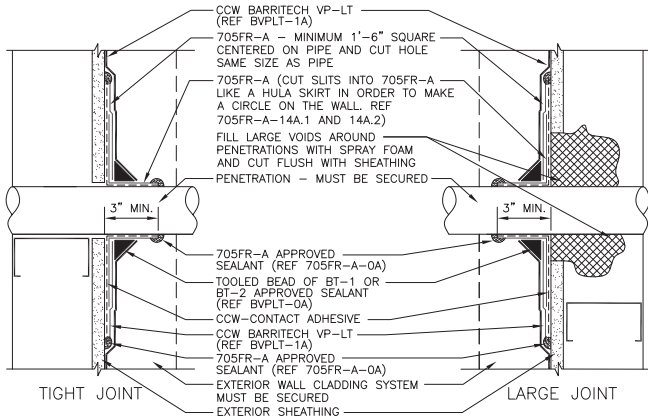
Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixtures or conduit and plumbing penetrations to form a back dam.
- Closed-cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVP-LT-14A – Pipe Penetration CCW-705FR-A

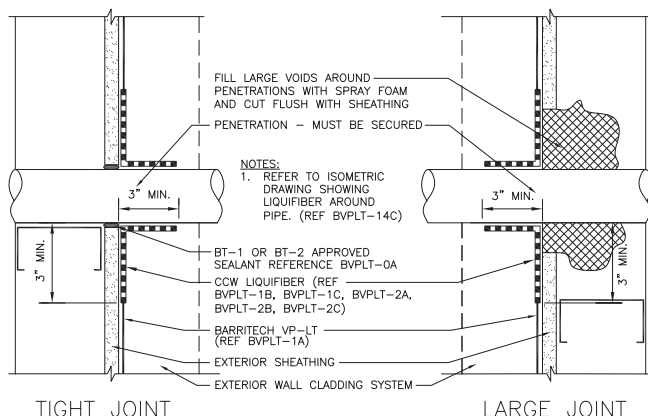


1. Fill gaps exceeding $\frac{1}{4}$ -inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by approved sealant application.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply around the penetration. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply approved sealant at CCW-705FR-A cut edges around the penetration and on the face of the wall prior to installation of CCW Barritech VP-LT. (Ref. Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A)
6. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVP-LT-14B – Pipe Penetration CCW LiquiFiber



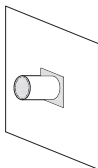
1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on detail BVP-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by sealant application.
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area.
3. Place CCW LiquiFiber into the wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
5. Apply additional CCW LiquiFiber into wet Barritech VP-LT to cover CCW LiquiFiber cuts made to treat the penetration.
6. Apply additional Barritech VP-LT (35 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
7. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

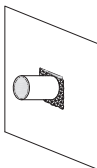
INSTALLATION INSTRUCTIONS

BVPLT-14C – LiquiFiber-W at Pipe Penetration

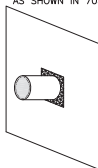
ALTERNATE METHOD: DETAIL CAN ALSO BE DONE WITH CCW-705FR-A AS SHOWN IN 705FR-A-14A.1



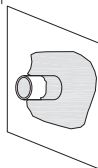
PIPE PENETRATION WITH ROUGH GAP



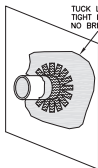
FILL TIGHTER GAPS WITH BT-1 OR BT-2 SEALANT. (REFERENCE DRAWING BVPLT-0A) FILL ROUGH GAPS WITH EXPANDING FOAM



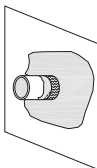
SHAVE FOAM FLUSH AFTER CURE



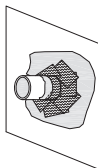
APPLY BARRITECH VP-LT 35 MIL BASE COAT



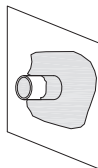
INSTALL LIQUIFIBER "HULA SKIRT" AS SHOWN



APPLY 2ND BASE COAT OF BARRITECH VP-LT MINIMUM 35 MILS WET AROUND PIPE



APPLY PIECES OF LIQUIFIBER AROUND PIPE AS SHOWN



COAT ALL LIQUIFIBER WITH BARRITECH VP-LT TO ENCAPSULATE LIQUIFIBER. NO MINIMUM MIL THICKNESS REQUIRED

INSTALLATION INSTRUCTIONS

Brick Ties

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application

- Apply Barritech VP-LT over the substrate in accordance with current CCW published literature.
- Install brick ties in accordance to brick tie manufacturer instructions ensuring fasteners are straight, not over driven and a compression seal is achieved. All holes from mis-driven fasteners must be sealed. Fill all voids around CMU brick ties with mortar or sealant.
- Embedded brick ties shall be treated with Barriseal VP-LT so that an air-tight seal is achieved.

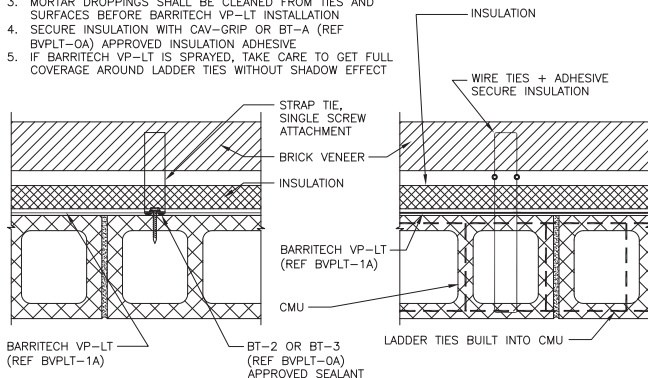
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-6B – Brick Ties – CMU

NOTES:

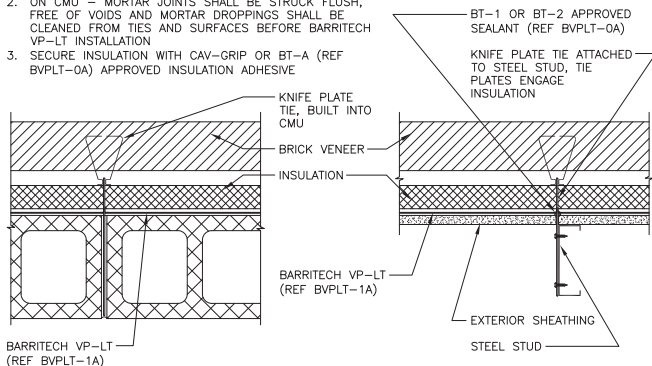
1. INSTALL STRAP TIES AFTER BARRITECH VP-LT
2. MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS
3. MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE BARRITECH VP-LT INSTALLATION
4. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BVPLT-0A) APPROVED INSULATION ADHESIVE
5. IF BARRITECH VP-LT IS SPRAYED, TAKE CARE TO GET FULL COVERAGE AROUND LADDER TIES WITHOUT SHADOW EFFECT



BVPLT-6C – Knife Plate Type Ties CMU and Sheathing

NOTES:

1. TIES ARE IN PLACE BEFORE BARRITECH VP-LT INSTALLATION
2. ON CMU – MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS AND MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE BARRITECH VP-LT INSTALLATION
3. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BVPLT-0A) APPROVED INSULATION ADHESIVE



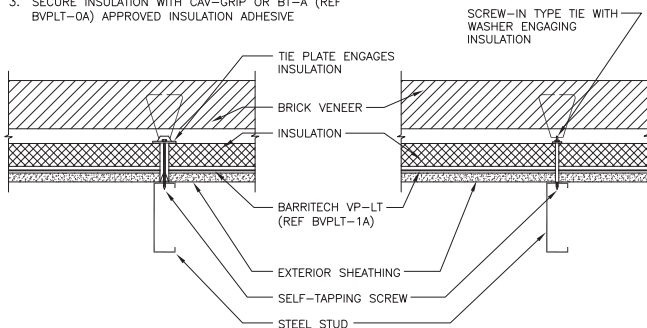
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-6D – Brick Ties Attached to Stud Through Insulation and Sheathing

NOTES:

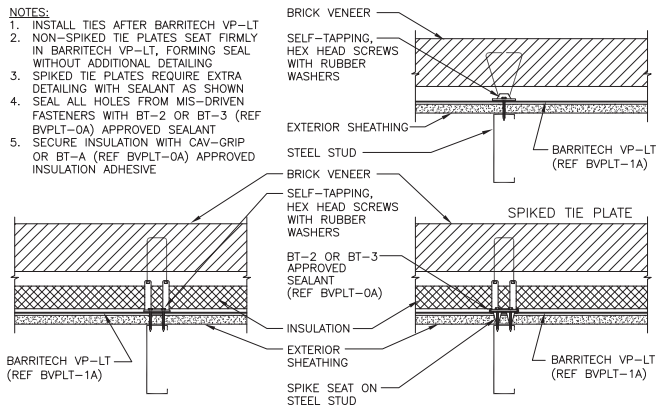
1. DRIVE FASTENERS STRAIGHT, DO NOT OVER-DRIVE
2. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH PORTABLE CAN SPRAY FOAM
3. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BVPLT-0A) APPROVED INSULATION ADHESIVE



BVPLT-6E – 2-Screw Brick Ties Attached to Stud

NOTES:

1. INSTALL TIES AFTER BARRITECH VP-LT
2. NON-SPIKED TIE PLATES SEAT FIRMLY IN BARRITECH VP-LT, FORMING SEAL WITHOUT ADDITIONAL DETAILING
3. SPIKED TIE PLATES REQUIRE EXTRA DETAILING WITH SEALANT AS SHOWN
4. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH BT-2 OR BT-3 (REF BVPLT-0A) APPROVED SEALANT
5. SECURE INSULATION WITH CAV-GRIP OR BT-A (REF BVPLT-0A) APPROVED INSULATION ADHESIVE



INSTALLATION INSTRUCTIONS

Expansion Joint

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application

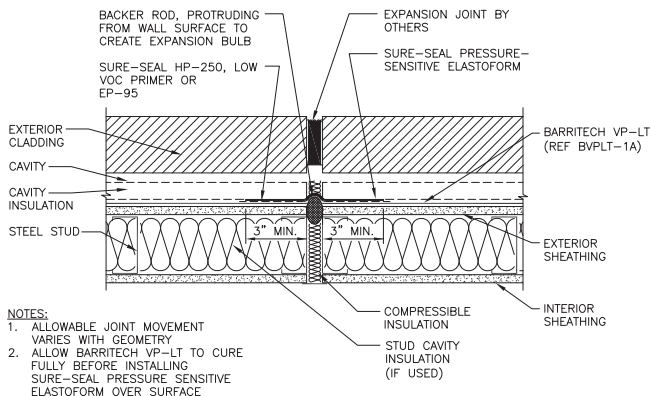
Sure-Seal Pressure-Sensitive Elastoform

1. Apply Barritech VP-LT over the substrate in accordance with current CCW published literature and allow to fully cure.
2. Install backer rod into the joint protruding from the wall to create an expansion bulb.
3. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum of 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
4. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
5. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with a hand roller to strengthen adhesion.
6. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.

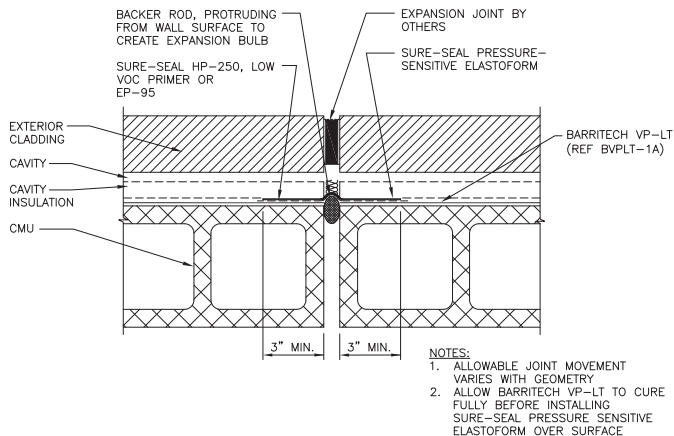
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-3A – Gypsum Sheathing Vertical Expansion Joint



BVPLT-3B – CMU Expansion Joint



INSTALLATION INSTRUCTIONS

Window Rough Opening

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Provide continuous air seal around interior perimeter of window. Contact window manufacturer for specific installation instructions.
- Ensure continuity of air/vapor barrier is maintained at window penetration.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application at Window Sill

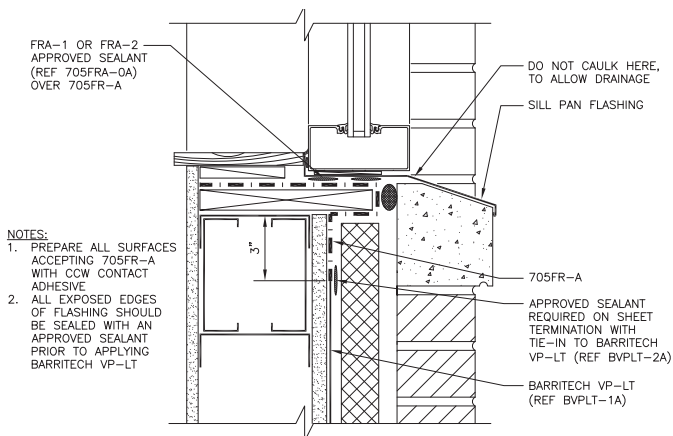
Option 1: CCW 705FR-A

1. Fill gaps exceeding a ¼-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending a minimum of 1-inch beyond the edge of CCW-705FR-A Strips. Contact adhesive must be covered the same day of application, Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A Strips to desired length and apply in rough window sill. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Encapsulate the exposed edge of CCW-705FR-A where Barritech VP-LT will tie-into flashing with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP-LT.

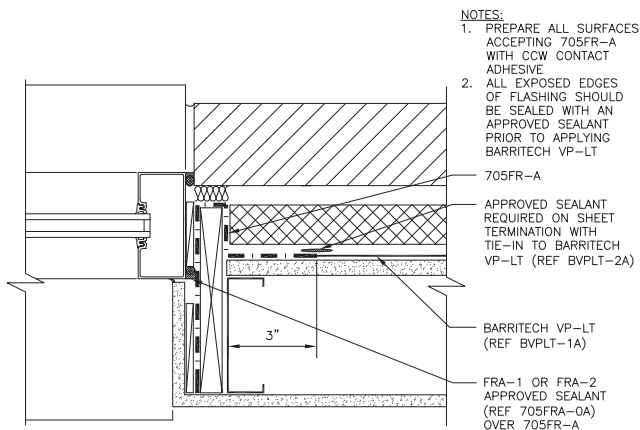
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-5B.1 – Punched Window Sill CCW 705FR-A



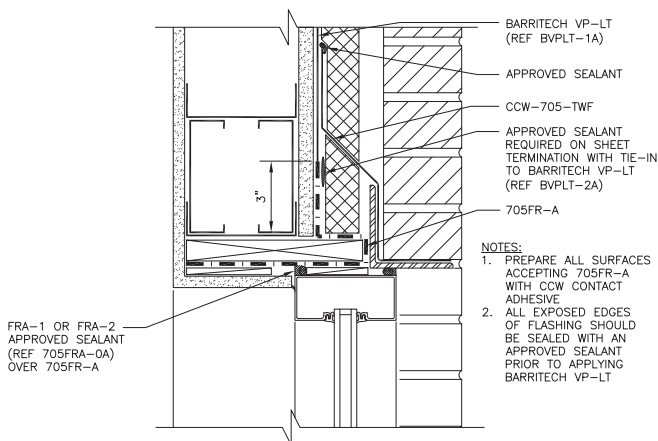
BVPLT-5B.2 – Punched Window Jamb CCW 705FR-A



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-5B.3 – Punched Window Head CCW 705FR-A



INSTALLATION INSTRUCTIONS

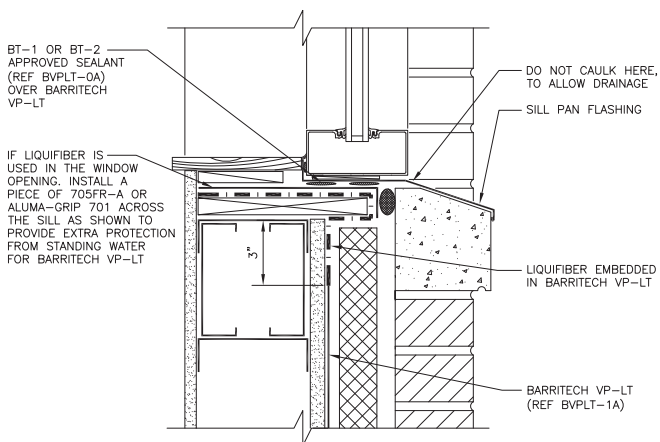
Option 2: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVPLT-0A).
2. Apply a liberal amount of Barritech VPLT (minimum 35 wet mils) in rough window opening and onto face extending a minimum of 1-inch beyond the edge of CCW LiquiFiber.
3. DO NOT PLACE LIQUIFIBER-W into Window Sill. Place a Minimum 9-inch strip of CCW 705FR-A into the Window Sill, extending up the jambs a minimum of 3-inches. (Reference BVP-5B.1/BNP-5B.1)
4. Apply an approved sealant over the cut edges of the CCW 705FR-A, allowing to cure prior to installation of Barritech VP/Barritech NP.
5. Place CCW LiquiFiber into the wet Barritech VP-LT window jamb 1st and the window head last.
6. Apply additional Barritech VP-LT (35 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
7. Treat sill/jamb corners with an additional piece of CCW LiquiFiber and Barritech VP-LT.
8. Apply Barritech VP-LT in accordance with current CCW published literature.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

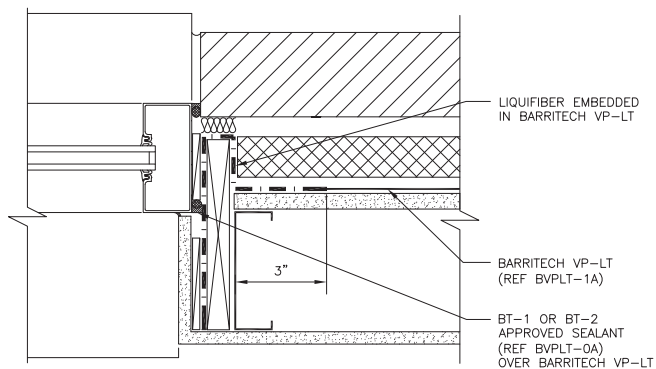
BVPLT-5B.1 – Option 2: Punched Window – Sill



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

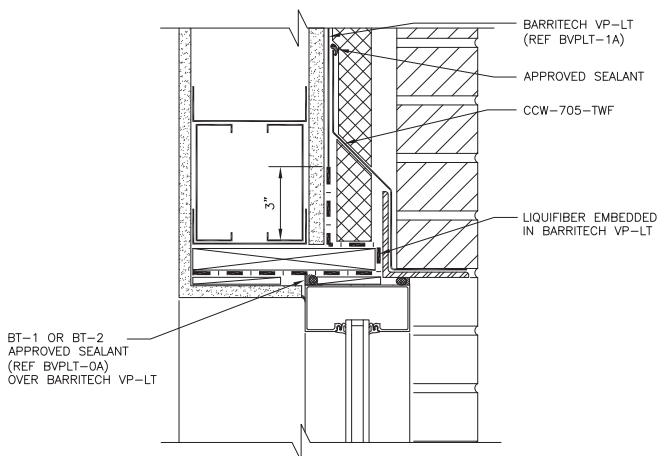
BVPLT-5B.2 – Option 2: Punched Window – Jamb



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

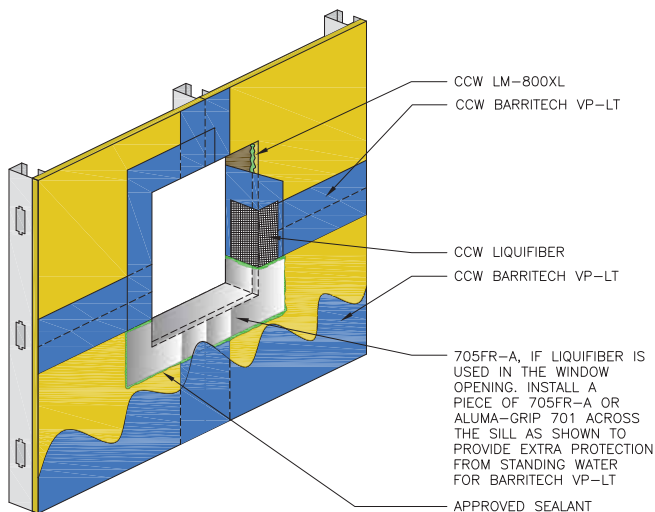
BVPLT-5B.3 – Option 2: Punched Window – Head



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVP-17 – Isometric Rough Opening Sill, Jamb and Head



INSTALLATION INSTRUCTIONS

Parapet

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at wall to roof transition.
- Verify blocking is installed and secured per design.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

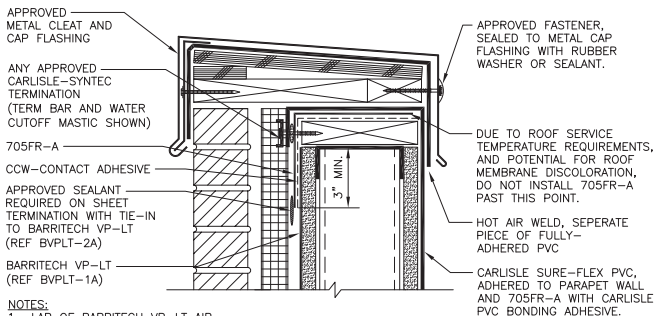
Option 1: CCW 705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of the CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705FR-A is not installed on the same day.
3. Application CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705FR-A a minimum of 2-inches horizontally and vertically.
6. CCW Barritech VP-LT, CCW 705, and CCW 705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system and vice versa.
7. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP-LT.
8. Apply Barritech VP-LT in accordance with current CCW published literature.
9. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-11A – Option 1: Tie-in to PVC Roof at Parapet CCW 705FR-A



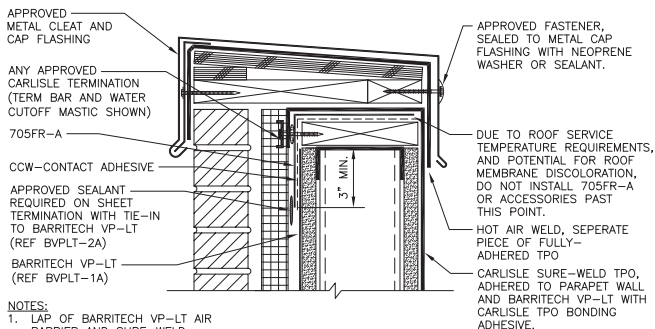
NOTES:

1. LAP OF BARRITECH VP-LT AIR BARRIER AND SURE-FLEX PVC ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-FLEX PVC ROOFING INSTALLATION.

1st: BARRITECH VP-LT AIR BARRIER

2nd: SURE-FLEX PVC ROOFING

BVPLT-11C – Option 1: Tie-in to TPO Roof at Parapet CCW 705FR-A



NOTES:

1. LAP OF BARRITECH VP-LT AIR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

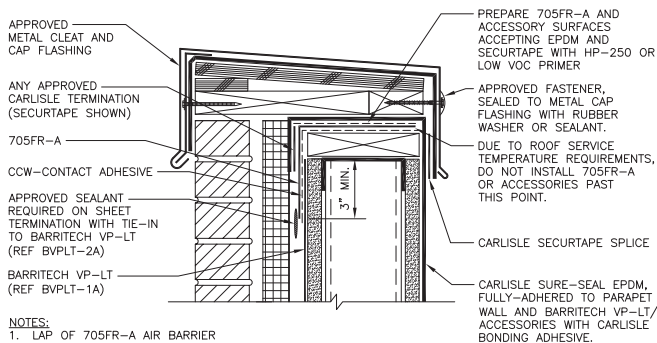
1st: BARRITECH VP-LT AIR BARRIER

2nd: SURE-WELD TPO ROOFING

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-11E – Option 1: Tie-in to EPDM Roof at Parapet CCW 705FR-A



NOTES:

1. LAP OF 705FR-A AIR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

- 1st: BARRITECH VP-LT AIR BARRIER
2nd: SURE-SEAL EPDM ROOF

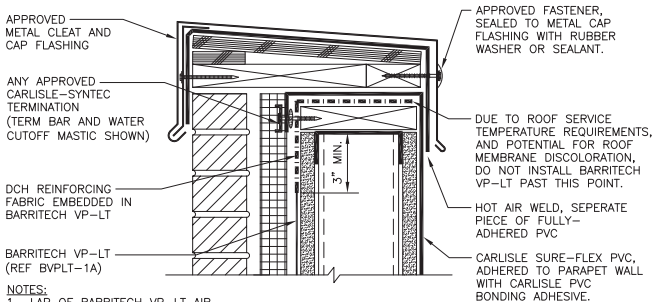
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

Option 2: DCH Reinforcing Fabric

1. Fill sheathing joint gaps exceeding ¼-inch with approved sealant (reference Group BT-1 and Group BT-2 on details BVPLT-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the DCH Reinforcing Fabric.
3. Place the DCH Reinforcing Fabric into the wet Barritech VP-LT ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional Barritech VP-LT (35 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP-LT the same day of installation.
5. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP-LT.
6. Apply Barritech VP-LT in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BVPLT-11A – Option 2: Tie-in to PVC Roof at Parapet CCW DCH Reinforcing Fabric

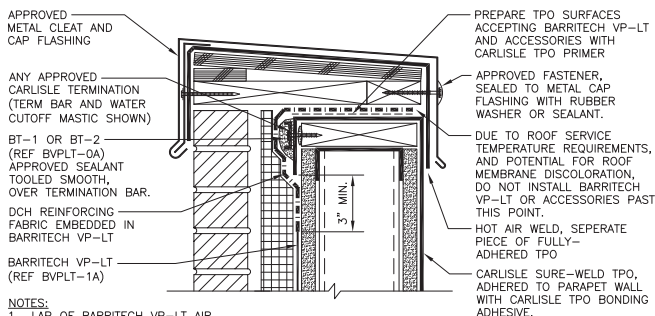


1st: BARRITECH VP-LT AIR BARRIER
2nd: SURE-FLEX PVC ROOFING

BARRITECH VP-LT

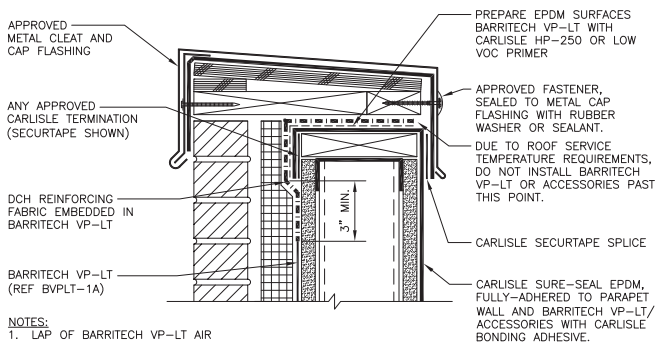
INSTALLATION INSTRUCTIONS

BVP-11D – Option 2: Tie-in to TPO Roof at Parapet CCW DCH Reinforcing Fabric



1st: SURE-WELD TPO ROOFING
2nd: BARRITECH VP-LT AIR BARRIER

BVP-11F – Option 2: Tie-in to EPDM Roof at Parapet CCW DCH Reinforcing Fabric



1st: SURE-SEAL EPDM ROOF
2nd: BARRITECH VP-LT AIR BARRIER

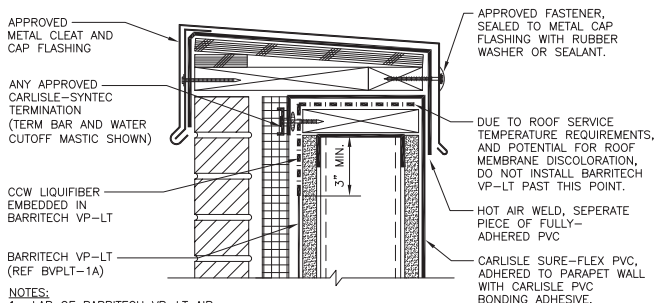
BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the CCW LiquiFiber.
3. Place the CCW LiquiFiber into the wet Barritech VP-LT ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional Barritech VP-LT (35 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet Barritech VP-LT.
6. Apply Barritech VP-LT in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BVPLT-11A – Option 3: Tie-in to PVC Roof at Parapet CCW LiquiFiber

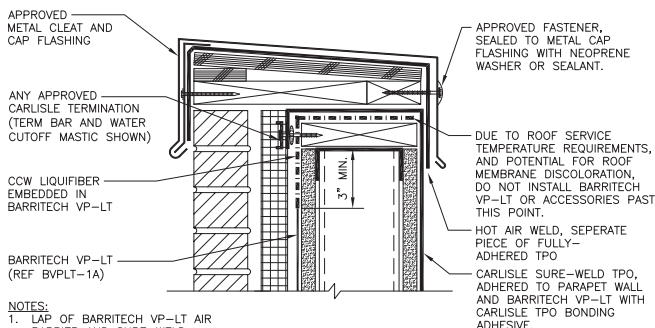


1st: BARRITECH VP-LT AIR BARRIER
2nd: SURE-FLEX PVC ROOFING

BARRITECH VP-LT

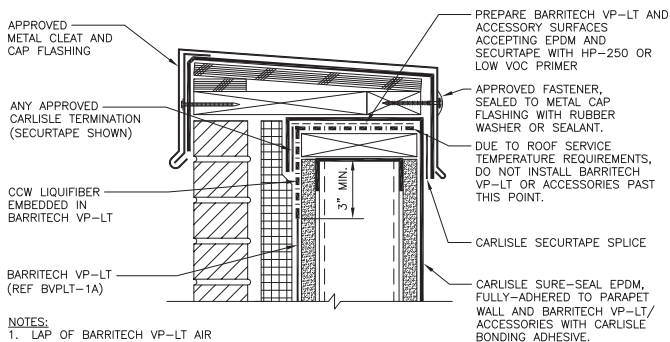
INSTALLATION INSTRUCTIONS

BVPLT-11C – Option 3: Tie-In to TPO Roof at Parapet CCW LiquiFiber



1st: BARRITECH VP-LT AIR BARRIER
2nd: SURE-WELD TPO ROOFING

BVP-11E – Option 3: Tie-in to EPDM Roof at Parapet CCW LiquiFiber



1st: BARRITECH VP-LT AIR BARRIER
2nd: SURE-SEAL EPDM ROOF

INSTALLATION INSTRUCTIONS

Foundation

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at foundation to wall transition.
- Verify waterproofing has been completed and all materials are compatible at tie-in locations.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Option 1: CCW 705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group FR-1 and Group FR-2 on detail 705FR-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending a minimum of 1-inch beyond the edge of CCW-705FR-A Strips onto the compatible waterproofing membrane.
3. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705FR-A with hand roller to strengthen adhesion.
5. Encapsulate the exposed edge of CCW- 705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP-LT.
6. Apply Barritech VP-LT in accordance with current CCW published literature.
7. Install CCW-705FR through wall flashing, per design.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-16A – Option 1: Foundation Tie-In CCW 705FR-A

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF, 705FR-A AND MIRADRI-860/861 SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

APPROVED SEALANT

9" 705FR-A

APPROVED SEALANT

MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

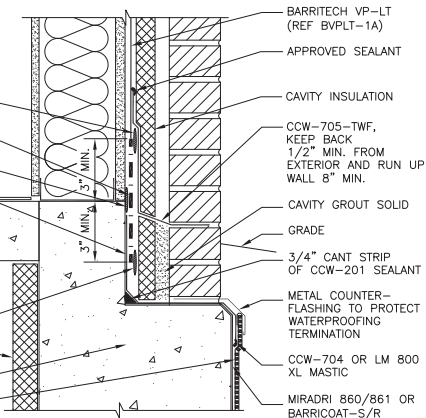
SLAB

APPROVED SEALANT

BELOW GRADE INSULATION, R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN DRAINAGE COMPOSITE



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVPLT-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending a minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the compatible waterproofing membrane.
3. Place DCH Reinforcing Fabric into the wet Barritech VP-LT Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP-LT the same day of installation.
5. Apply Barritech VP-LT in accordance with current CCW published literature.
6. Install CCW-705FR-A through wall flashing, per design.

BVPLT-16A – Option 2: Foundation Tie-In CCW DCH Reinforcing Fabric

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF AND MIRADRI-860/861 STRIPS SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

12" DCH REINFORCING FABRIC EMBEDDED IN BARRITECH VP-LT.

APPROVED SEALANT

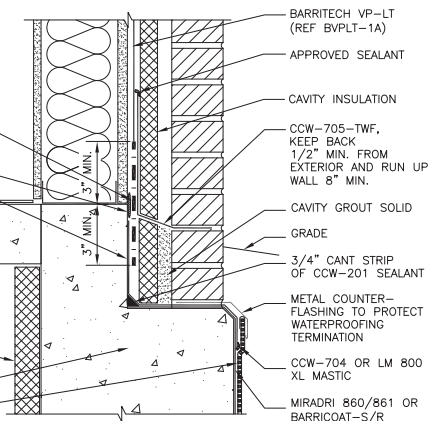
MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

SLAB

BELOW GRADE INSULATION, R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN DRAINAGE COMPOSITE



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVPLT-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending a minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
5. Apply Barritech VP-LT in accordance with current CCW published literature.
6. Install CCW-705FR-A through wall flashing, per design.

BVPLT-16A – Option 3: Foundation Tie-In CCW LiquiFiber

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF AND MIRADRI-860/861 STRIPS SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

12" LIQUIFIBER EMBEDDED IN BARRITECH VP-LT

APPROVED SEALANT

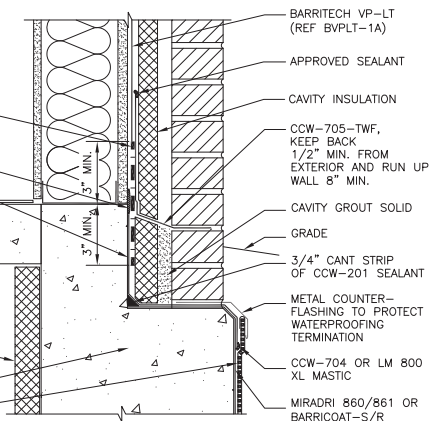
MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

SLAB

BELOW GRADE INSULATION, R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN DRAINAGE COMPOSITE



INSTALLATION INSTRUCTIONS

Shelf Angle Through-Wall Flashing

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Treatment prior to shelf angle installation

Option 1: CCW 705FR-A

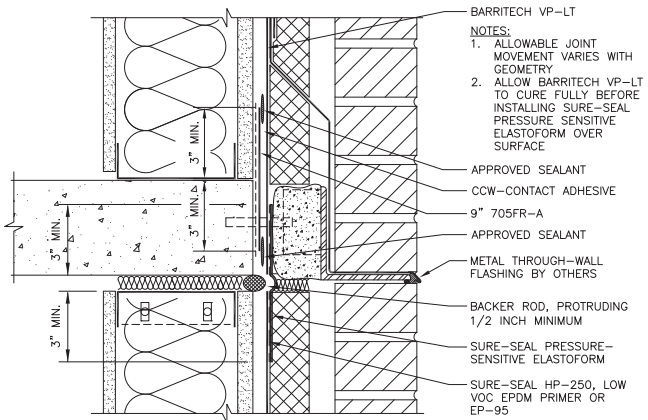
1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705FR-A Strips.
2. Application of CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the CCW-705FR-a with hand roller to strengthen adhesion.
4. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barritech VP-LT.
5. Apply Barritech VP-LT in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
10. Install backing, shelf angle and insulation. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with an approved sealant. Metal through wall flashing may also be used.

BVPLT-7B – Option 1: Drift Joint at Floor CCW 705-FR-A



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

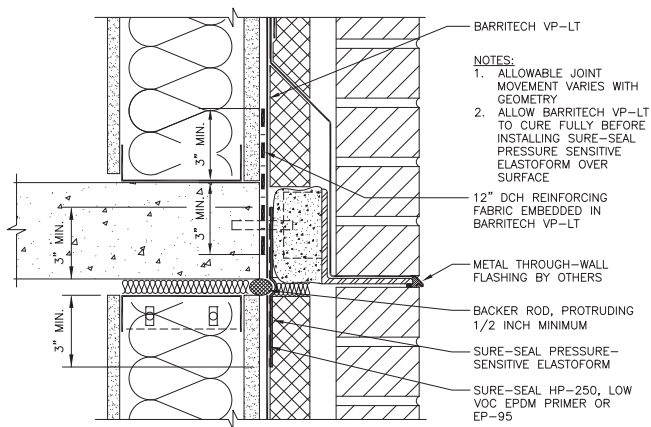
Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the sheathing and concrete slab.
3. Place DCH Reinforcing Fabric into the wet Barritech VP-LT. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with Barritech VP-LT the same day of installation.
5. Apply Barritech VP-LT in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall may also be used.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-7B – Option 2: Drift Joint at Floor CCW DCH Reinforcing Fabric



BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

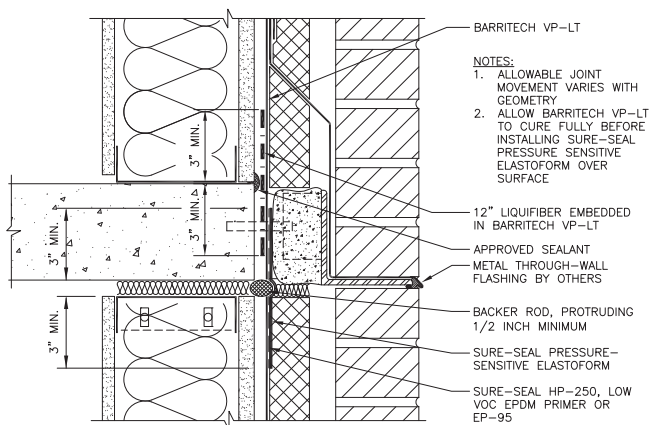
Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BT-1 and Group BT-2 on details BVP-0A and BNP-0A).
2. Apply a liberal amount of Barritech VP-LT (minimum 35 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet Barritech VP-LT.
4. Apply additional Barritech VP-LT (35 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with Barritech VP-LT the same day of installation.
5. Apply Barritech VP-LT in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with an approved sealant. Metal through wall may also be used.

BARRITECH VP-LT

INSTALLATION INSTRUCTIONS

BVPLT-7B – Option 3: Drift Joint at Floor CCW LiquiFiber



BARRITECH VP/BARRITECH VP-LT/BARRITECH NP

ADHESION AND CHEMICAL COMPATIBILITY

Barritech NP with Generic Building Materials

Material	Status	Comments
Plywood	Recommended	Moisture content of wood shall be below 20%.
OSB	Recommended	
Lumber (standard, pressure-treated or fire-treated)	Recommended	
Glass-Faced Gypsum Sheathing (Example: DensGlass Gold)	Recommended	
Plain Gypsum Sheathing (Example: USG Fiberock)	Recommended	
Structural Steel	Recommended	Remove loose rust and scale.
Concrete	Recommended	Allow concrete to cure 7 days minimum.
Concrete block, brick and stone	Recommended	Joints shall be free of voids, struck flush and mortar droppings removed from ties and surfaces.
Aluminum (sheet, foil and extrusion)	Recommended	
Un-faced EPS Insulation	Recommended	
Poly-faced EPS and XPS Insulation	Recommended	
Copper Flashing	See Notes	Adhesive bond to copper may weaken or fail over time. Barritech NP with embedded LiquiFiber-W or DCH Fabric is acceptable for counter-flashing a secure, sealed termination of copper flashing.
Stainless Flashing	Recommended	
Rigid PVC Window Extrusion	Recommended	
Painted Surfaces	Recommended	
2# Closed Cell Spray Foam, Full Coverage Dispense from Foam Rig	See Notes	Membrane over foam: Recommended. Foam over membrane: Recommended, provided that maximum thickness per pass as dictated by foam manufacturer is followed. Excessive heat build and shrinkage of foam may cause de-lamination.

NOTES: All surfaces shall be clean, sound and dry.

These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech NP with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

ADHESION AND CHEMICAL COMPATIBILITY**Barritech NP with Other Carlisle Products**

Material	Recommendations
Sure-Seal EPDM Membranes and Flashing	Barritech NP over EPDM: Prepare EPDM surface with Carlisle EP-95 Splicing Cement, HP-250 Primer or Low-VOC EPDM Primer.
Sure-Seal SecurTAPE™ and Pressure-Sensitive EPDM Flashing	P/S EPDM Flashing over Barritech NP: Allow Barritech NP to fully cure, prepare film surface with Carlisle EP-95 Splicing Cement, HP-250 Primer or Low-VOC EPDM Primer.
Sure-Weld® TPO Membranes and Flashing	Do not allow contact. Provide separation with metal flashing.
Self-Adhering Flashing/Membrane: 705FR-A, MiraPLY-H/V, MD-860/861, CCW-705, CCW-705 TWF, WIP, 725 TR, CCW-711-70/90 and CCW-711-NW	Barritech NP can be applied directly over film side of other CCW self-adhering membrane. Adhesive side of CCW self-adhering membrane to Barritech NP: Allow Barritech NP to cure fully and prepare surface with CCW Contact Adhesive.
CCW-500R	Barritech NP is recommended for application over cooled hot-applied waterproofing membrane. DO NOT apply hot 500R over Barritech NP.
MiraSEAL, CCW-525 H and CCW-525 V	Barritech NP over liquid waterproofing membrane: Allow minimum 21 day cure of liquid waterproofing membrane before applying Barritech NP over it.
CCW Polyurethane Deck Coating	Barritech NP is recommended for application over CCW deck coating system.
Barriseal-S/R and Barricoat-S/R	Barriseal and Barricoat can be applied over the film side of Barritech NP. Barritech NP can be installed over cured Barriseal/Barricoat.
Barritech VP	Barritech VP can be applied over cured Barritech NP. Barritech NP can be installed over cured Barritech VP.
CCW R2+ Polyisocyanurate Insulation: R2+ Matte, R2+ Sheathe, R2+ Silver	Barritech NP can be applied over insulation facer and edges. Clean, dry surface.
CCW R2+ Base	See instructions for plywood and OSB. Reference BNP-0B.
Insulfoam and R-Tech	Barritech NP can be installed over face and un-faced surfaces.

NOTES: All surfaces shall be clean, sound and dry.

These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech NP with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

BARRITECH VP/BARRITECH VP-LT/BARRITECH NP

ADHESION AND CHEMICAL COMPATIBILITY

Barritech VP/Barritech VP-LT with Generic Building Materials

Material	Status	Comments
Plywood	Recommended	Moisture content of wood shall be below 20%.
OSB	Recommended	
Lumber (standard, pressure-treated or fire-treated)	Recommended	
Glass-Faced Gypsum Sheathing (Example: DensGlass Gold)	Recommended	
Plain Gypsum Sheathing (Example: USG Fiberock)	Recommended	
Structural Steel	Recommended	Remove loose rust and scale.
Concrete	Recommended	Allow concrete to cure 7 days minimum.
Concrete block, brick and stone	Recommended	Joints shall be free of voids, struck flush and mortar droppings removed from ties and surfaces.
Aluminum (sheet, foil and extrusion)	Recommended	
Un-faced EPS Insulation	Recommended	
Poly-faced EPS and XPS Insulation	Recommended	
Copper Flashing	See Notes	Adhesive bond to copper may weaken or fail over time. Barritech VP/Barritech VP-LT with embedded LiquiFiber-W or DCH Fabric is acceptable for counter-flashing a secure, sealed termination of copper flashing.
Stainless Flashing	Recommended	
Rigid PVC Window Extrusion	Recommended	
Painted Surfaces	Recommended	
2# Closed Cell Spray Foam, Full Coverage Dispense from Foam Rig	See Notes	Membrane over foam: Recommended. Foam over membrane: Recommended, provided that maximum thickness per pass as dictated by foam manufacturer is followed. Excessive heat build and shrinkage of foam may cause de-lamination.

NOTES: All surfaces shall be clean, sound and dry.

These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech VP/Barritech VP-LT with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

ADHESION AND CHEMICAL COMPATIBILITY**Barritech VP/Barritech VP-LT with
Other Carlisle Products**

Material	Recommendations
Sure-Seal EPDM Membranes and Flashing	Barritech VP/Barritech VP-LT over EPDM: Prepare EPDM surface with Carlisle EP-95 Splicing Cement, HP-250 Primer or Low-VOC EPDM Primer.
Sure-Seal SecurTAPE™ and Pressure-Sensitive EPDM Flashing	P/S EPDM Flashing over Barritech VP/Barritech VP-LT: Allow Barritech VP/Barritech VP-LT to fully cure, prepare film surface with Carlisle EP-95 Splicing Cement, HP-250 Primer or Low-VOC EPDM Primer.
Sure-Weld® TPO Membranes and Flashing	Do not allow contact. Provide separation with metal flashing.
Self-Adhering Flashing/ Membrane: 705FR-A, MiraPLY-H/V, MD-860/861, CCW-705, CCW-705 TWF, WIP, 725 TR, CCW-711-70/90 and CCW-711-NW	Barritech VP/Barritech VP-LT can be applied directly over film side of other CCW self-adhering membrane. Adhesive side of CCW self-adhering membrane to Barritech VP/ Barritech VP-LT: Allow Barritech VP/Barritech VP-LT to cure fully and prepare surface with CCW Contact Adhesive.
CCW-500R	Barritech VP/Barritech VP-LT is recommended for application over cooled hot-applied waterproofing membrane. DO NOT apply hot 500R over Barritech VP/ Barritech VP-LT.
MiraSEAL, CCW-525 H and CCW-525 V	Barritech VP/Barritech VP-LT over liquid waterproofing membrane: Allow minimum 21 day cure of liquid waterproofing membrane before applying Barritech VP/ Barritech VP-LT over it.
CCW Polyurethane Deck Coating	Barritech VP/Barritech VP-LT is recommended for application over CCW deck coating system.
Barriseal-S/R and Barricoat-S/R	Barriseal and Barricoat can be applied over the film side of Barritech VP/Barritech VP-LT. Barritech VP/Barritech VP-LT can be installed over cured Barriseal/Barricoat.
Barritech NP	Barritech NP can be applied over cured Barritech VP/ Barritech VP-LT. Barritech VP/Barritech VP-LT can be installed over cured Barritech NP.
CCW R2+ Polyisocyanurate Insulation: R2+ Matte, R2+ Sheathe, R2+ Silver	Barritech VP/Barritech VP-LT can be applied over insulation facer and edges. Clean, dry surface.
CCW R2+ Base	See instructions for plywood and OSB. Reference BVP-OB AND BVPLT-OB.
Insulfoam and R-Tech	Barritech VP/Barritech VP-LT can be installed over face and un-faced surfaces.

NOTES: All surfaces shall be clean, sound and dry.

These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech VP/Barritech VP-LT with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

CHEMICAL RESISTANCE**Barritech NP**

Material	Contact	Comments
Strong Acids and Bases (Examples: Muriatic Acid, Lye)	Not Permitted	Film and adhesive can be damaged by exposure to these.
Oil and Grease (Examples: Vegetable Oil, Animal Fat, Motor Oil)	Not Permitted	Oil or grease will soften membrane.
Organic Solvents (Examples: Toluene, Mineral Spirits)	Limited Exposure	Solvent-based sealants, coatings and primers can be applied to cured Barritech NP. However, solvents must be allowed to flash from these products before covering with Barritech NP. Soaking Barritech NP membrane with solvents or solvent-based cleaners is not recommended.
Bird Droppings	Limited Exposure	At ledges and similar areas, clean accumulated bird droppings and nest materials from Barritech NP with detergent solution before covering with cladding system.
Soil	Permitted	Barritech NP is for use above grade. Installed product can get dirty. Barritech NP is chemically resistant to soil.
Detergent Solutions (Examples: Soap and water, citrus cleaner)	Permitted	Allow full cure before exposure.
Rain Water	Permitted	Allow full cure before exposure.
Salt Water Spray/Mist	Permitted	Allow full cure before exposure.
Standing Water	Not Permitted	Barritech NP is recommended for above grade use, in vertical wall assemblies. For resistance to water under hydrostatic head, consult CCW Waterproofing Systems.

NOTES: These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech NP with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

CHEMICAL RESISTANCE**Barritech VP/Barritech VP-LT**

Material	Contact	Comments
Strong Acids and Bases (Examples: Muriatic Acid, Lye)	Not Permitted	Film and adhesive can be damaged by exposure to these.
Oil and Grease (Examples: Vegetable Oil Animal Fat, Motor Oil)	Not Permitted	Oil or grease will soften membrane.
Organic Solvents (Examples: Toluene, Mineral Spirits)	Limited Exposure	Solvent-based sealants, coatings and primers can be applied to cured Barritech VP/Barritech VP-LT. However, solvents must be allowed to flash from these products before covering with Barritech VP/Barritech VP-LT. Soaking Barritech VP/Barritech VP-LT membrane with solvents or solvent-based cleaners is not recommended.
Bird Droppings	Limited Exposure	At ledges and similar areas, clean accumulated bird droppings and nest materials from Barritech VP/Barritech VP-LT with detergent solution before covering with cladding system.
Soil	Permitted	Barritech VP/Barritech VP-LT is for use above grade. Installed product can get dirty. Barritech VP is chemically resistant to soil.
Detergent Solutions (Examples: Soap and Water, Citrus Cleaner)	Permitted	Allow full cure before exposure.
Rain Water	Permitted	Allow full cure before exposure.
Salt Water Spray/Mist	Permitted	Allow full cure before exposure.
Standing Water	Not Permitted	Barritech VP/Barritech VP-LT is recommended for above grade use, in vertical wall assemblies. For resistance to water under hydrostatic head, consult CCW Waterproofing Systems.

NOTES: These recommendations are intended to assist the design professional and the installer to determine compatibility of Barritech VP/Barritech VP-LT with materials commonly encountered in building assemblies. All Carlisle products shall be installed as indicated in drawings and literature. Recommendations in this document do not extend any approval for use of Carlisle products beyond the provisions in Carlisle's warranties.

CCW-705/FIRE RESIST CCW-705FR-A

TABLE OF CONTENTS

Installation Guidelines	140
Coordination	140
Substrate	141
Project/Site Conditions	141
Delivery, Storage and Handling	142
Application	142
 CCW-705/CCW-705FR-A Installation Instructions	 143
705-2C – Option 1: CCW-705/CCW-705FR-A Horizontal Oriented Installation	 144
705FR-A-2B – Option 2: CCW-705/CCW-705FR-A Vertical Oriented Installation	145
705FR-A-2D – CCW-705FR-A Vertical T-Joints	146
705-2D/705FR-A-2D – CCW-705/CCW-705FR-A Vertical T-Joints	146
 Inside/Outside Corners Installation Instructions	 147
705-15A/705FR-A-15A – CCW-705/CCW-705FR-A Inside/Outside Corners	148
705FR-15D/705FR-A-15D – Isometric Corner Reinforcements	148
 Pipe and Mechanical Penetration Installation Instructions	 149
705-14A.1/705FR-A-14A.1 – CCW-705/CCW-705FR-A at Pipe Penetration	151
705-14A.2/705FR-A-14A.2 – Cutting CCW-705/CCW-705FR-A Strips for Pipe Penetration	151
705-14D/705FR-A-14D – Electrical Box Penetration Detail	152
 Brick Ties Installation Instructions	 153
705-6B/705FR-A-6B – CCW-705/CCW-705FR-A Brick Ties – CMU	154
705-6C/705FR-A-6C – CCW-705/CCW-705FR-A Knife Plate Type Ties CMU and Sheathing	154
705-6D/705FR-A-6D – Brick Ties, Attached to Stud Through Insulation and Sheathing	155
705-6E/705FR-A-6E – CCW-705/CCW-705FR-A 2-Screw Brick Ties, Attachment to Stud Through Sheathing	155

TABLE OF CONTENTS

Expansion Joint Installation Instructions.....	156
705-3D/705FR-A-3B – CCW-705/CCW-705FR-A	
CMU Expansion Joint	158
Window Rough Opening Installation Instructions.....	159
705-5B.1/705FR-A-5B.1 – CCW-705/CCW-705FR-A	
Punched Window – Sill	161
705-5B.2/705FR-A-5B.2 – CCW-705/CCW-705FR-A	
Punched Window – Jamb	161
705-5B.3/705FR-A-5B.3 – CCW-705/CCW-705FR-A	
Punched Window – Head	162
705-17/705FR-A-17 – Isometric Rough Opening –	
Sill, Jamb and Head.....	162
Parapet Installation Instructions.....	163
705-11C/705FR-A-11C – CCW-705/CCW-705FR-A Tie-In to	
TPO Roof at Parapet.....	164
705-11E/705FR-A-11E – CCW-705/CCW-705FR-A Tie-In to	
EPDM Roof at Parapet.....	164
705-11J/705FR-A-11J – Isometric Parapet Edge Flashing.....	166
Foundation Installation Instructions	167
705FR-A-16A – CCW-705/CCW-705FR-A Foundation Tie-In	169
Shelf Angle Through-Wall Flashing Installation Instructions.....	170
Application: Treatment prior to shelf angle installation.....	171
705-7A/705FR-A-7A – CCW-705/CCW-705FR-A Shelf Angle	172
Application: Treatment with shelf angle installed	173
705-7B/705FR-A-7B – CCW-705/CCW-705FR-A	
Drift Joint at Floor	174
705-11K/705FR-A-11K – Isometric Shelf Angle	174

INSTALLATION GUIDELINES

This application guide has been assembled to assist in the application of CCW-705/CCW-705FR-A and is intended to offer guidance to the construction community. It is intended to be used in conjunction with current CCW published literature. Other acceptable methods of application that are not depicted in this guide may be incorporated during construction provided all applications follow proven and sound construction techniques.

Coordination:

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous air/vapor barrier is achieved across the building envelope.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing and repair procedures.
- Mock-up shall establish procedures and workmanship that must be maintained during installation.
- Review adjacent construction materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

INSTALLATION GUIDELINES

Substrate

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Gaps and cracks exceeding ¼-inch across shall be filled with materials and technique approved by CCW.
- Substrate systems and the structural performance thereof shall be engineered by others.
- Prevent the accumulation of water infiltration behind the substrate.
- CCW-705/CCW-705FR-A are not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.

Project/Site Conditions

- Do not apply CCW-705 or 705FR-A and associated materials in ambient and substrate temperatures below 40°F. Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F prevail.
- Do not apply CCW-705/CCW-705FR-A and associated materials to damp or frozen surfaces.
- Do not apply in rain or if rain is expected during application time.
- Limit exposure of CCW-705/CCW-705FR-A and associated products to a maximum of 60 days for CCW-705 and 180 days for CCW Fire Resist 705FR-A.

INSTALLATION GUIDELINES

Delivery, Storage and Handling

- Deliver CCW materials in original unopened packages.
- Protect CCW materials during transportation, storage, and installation to avoid physical damage.
- Store CCW-705/CCW-705FR-A rolls on end and do not double stack pallets.
- Store CCW materials in cool dry place protected from freezing, direct sunlight and extreme heat.

Application

- Protect surrounding areas and surfaces from damage and staining during application of CCW-705/CCW-705FR-A.
- Apply CCW-705/CCW-705FR-A and associated products in accordance with current CCW published literature.
- Overlap adjoining pieces minimum 2-inches for CCW-705/CCW-705FR-A.
- CCW-705/CCW-705FR-A shall bear minimum 3-inches onto each side of transitions such as joints, angle changes and substrate changes.
- CCW-705/CCW-705FR-A shall bear minimum 6-inches onto adjacent membrane systems such as foundation waterproofing or roofing.
- Protect finished work at end of each day to prevent moisture intrusion and damage.
- Ensure a continuous air/vapor barrier is achieved across the building envelope.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION GUIDELINES

CCW-705/CCW-705FR-A

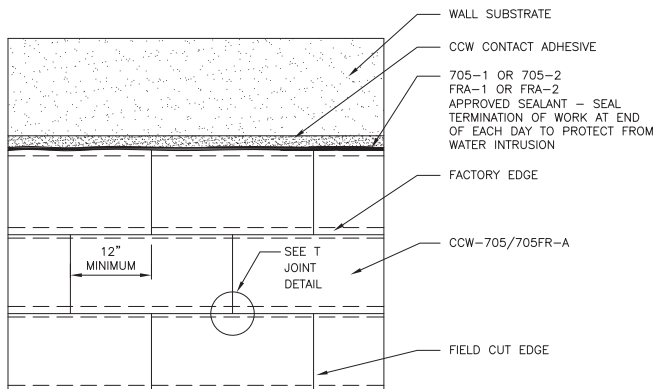
Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

705-2C/705FR-A-2C – Option 1: CCW-705/CCW-705FR-A Horizontal Oriented Installation

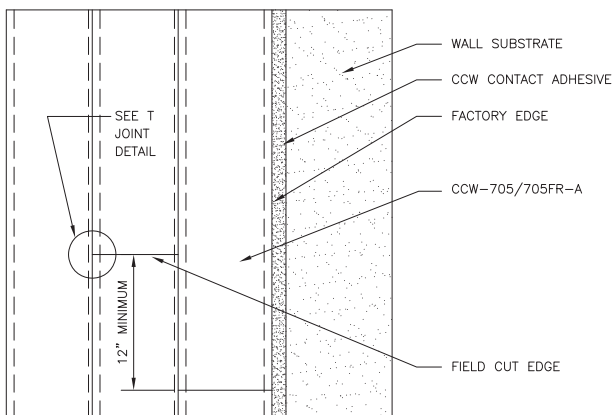


1. Install CCW-705/CCW-705FR-A in horizontal rows in sheets of manageable size starting at bottom and working up.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702WB, CCW-715, CAV-GRIP and TRAVEL-TACK) to all surfaces accepting CCW-705/CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A are not installed on the same day.
3. Application of CCW-705/CCW-705FR-A shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto each side of neighboring pieces and offsetting vertical seams minimum 12-inches. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply an approved sealant over all CCW-705/CCW-705FR-A field cut edges, T-joints, reverse laps, and terminations.
6. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.

CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-2B/705FR-A-2B – Option 2: CCW-705/CCW-705FR-A Vertical Oriented Installation

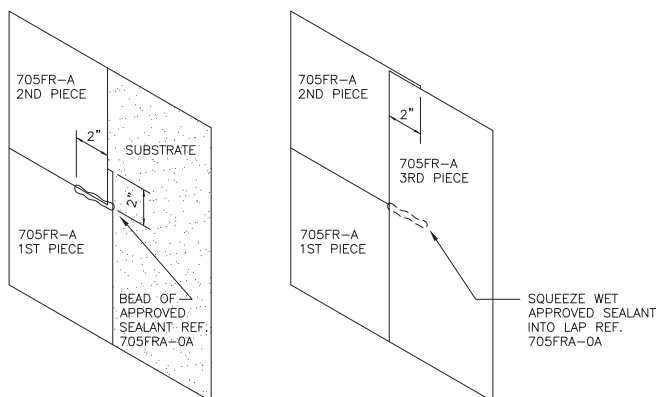


1. Install CCW-705/CCW-705FR-A in vertical rows in sheets of manageable size starting at top unrolling down the wall.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702WB, CCW-715, CAV-GRIP and TRAVEL-TACK) to all surfaces accepting CCW-705/CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A is not installed on the same day.
3. Application of CCW-705/CCW-705FR-A shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A to desired length and apply ensuring a minimum of 2-inches bearing onto each side of neighboring pieces and offsetting vertical seams minimum 12-inches. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply an approved sealant over all CCW-705/CCW-705-FR-A field cut edges, T-joints, reverse laps, and terminations.
6. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.

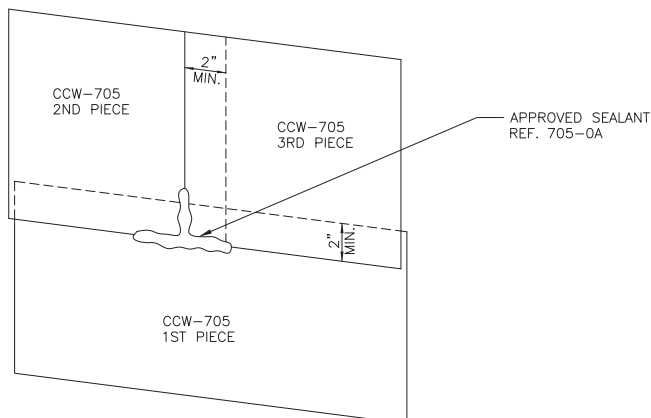
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-2D/705FR-A-2D – CCW-705FR Vertical T-Joints



705-2D/705FR-A-2D – CCW-705/CCW-705FR-A Vertical T-Joints



INSTALLATION INSTRUCTIONS

Inside / Outside Corners

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

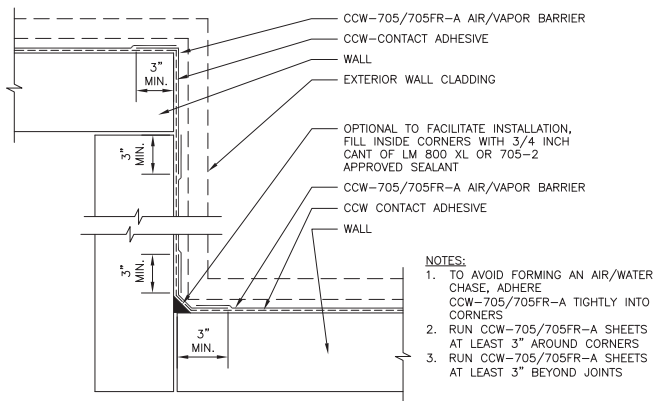
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A). To facilitate installation of CCW-705/CCW-705FR-A an optional ½-inch bead of approved sealant applied at all inside corners is recommend.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of minimum 9-inch CCW-705/CCW-705FR-A Strips. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A is not installed on the same day.
3. Application of minimum 9-inch CCW-705/CCW-705FR-A Strips shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto each side of the corner. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.

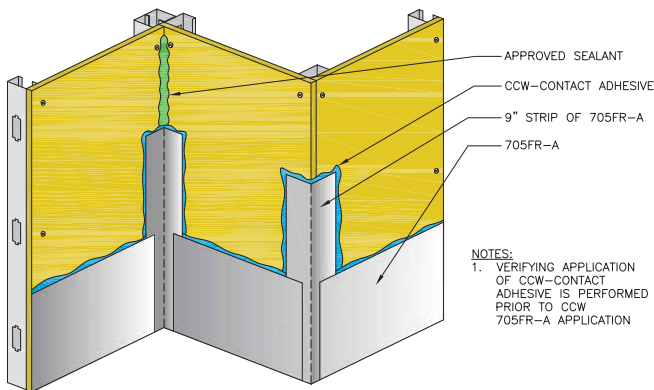
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-15A/705FR-A-15A – CCW-705/CCW-705FR-A Inside/Outside Corners



705FR-15D/705FR-A-15D – Isometric Corner Reinforcements



INSTALLATION INSTRUCTIONS

Pipe and Mechanical Penetration

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixture or conduit and plumbing penetrations to form a back dam.
- Closed cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

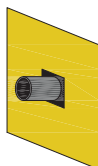
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the substrate followed by sealant application.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of CCW-705/CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A is not installed on the same day.
3. Application of CCW-705/CCW-705FR-A shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A to desired length and apply around the penetration. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply an approved sealant over CCW-705/CCW-705FR-A cut edges around the penetration (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A).
6. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.

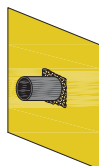
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

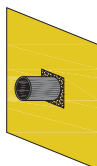
705-14A.1/705FR-A-14A.1 – CCW-705/CCW-705FR-A at Pipe Penetration



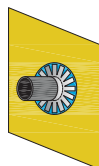
PIPE PENETRATION



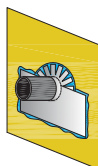
FILL TIGHTER GAPS WITH FRA-1 APPROVED SEALANT. FILL ROUGH GAPS WITH EXPANDING FOAM



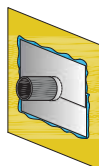
SHAVE FOAM FLUSH AFTER CURE



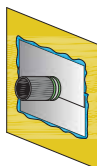
PREP SURFACE WITH CCW CONTACT ADHESIVE. DO NOT INSTALL SOLVENT-BASED ADHESIVE OVER FOAM. INSTALL 705FR-A STRIP AROUND PIPE AS SHOWN



INSTALL 705FR-A STRIP BELOW PIPE



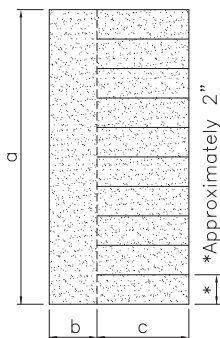
INSTALL 705FR-A STRIP ABOVE PIPE



SEAL TERMINATION AND PIPE BASE WITH FRA-1 OR FRA-2 APPROVED SEALANT

705-14A.2/705FR-A-14A.2 – Cutting CCW-705/CCW-705FR-A Strips for Pipe Penetration

PIECE TO INSTALL AROUND PIPE

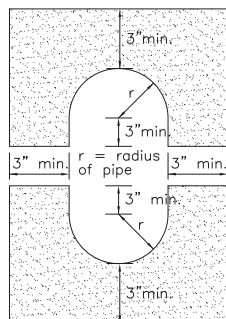


a = pipe circumference plus 3" to 4"

$b \geq 3"$

$c \geq 3"$

PIECE TO INSTALL ABOVE PIPE

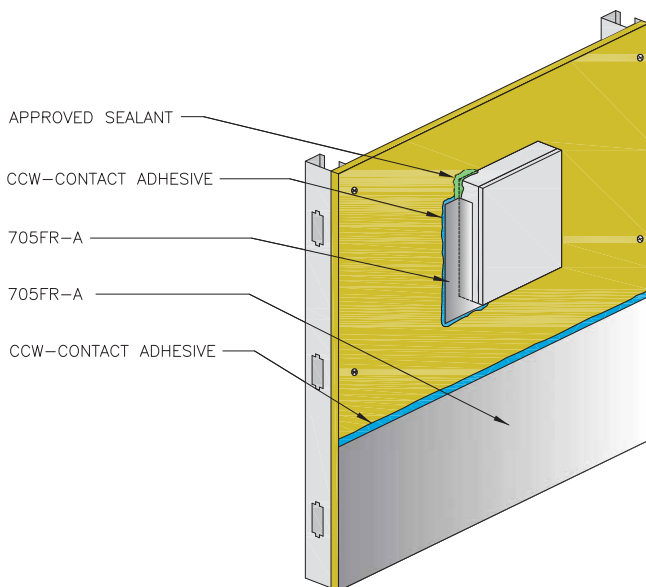


PIECE TO INSTALL BELOW PIPE

CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-14D/705FR-A-14D – Electrical Box Penetration Detail



INSTALLATION INSTRUCTIONS

Brick Ties

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application

1. Apply CCW-705/CCW-705FR-A over the substrate in accordance with current CCW published literature.
2. Install brick ties in accordance with brick tie manufacturer instructions ensuring fasteners are straight, not over driven and a compression seal is achieved. All holes from mis-driven fasteners must be sealed. Fill all voids around CMU brick ties with mortar or sealant.
3. Embedded brick ties shall be treated with CCW-705/CCW-705FR-A so that an air-tight seal is achieved.
4. If brick ties are in place prior to CCW-705/CCW-705FR-A installation treat penetrations with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group 705 FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A) prior to CCW-705/CCW-705FR-A application.

CCW-705/FIRE RESIST CCW-705FR-A

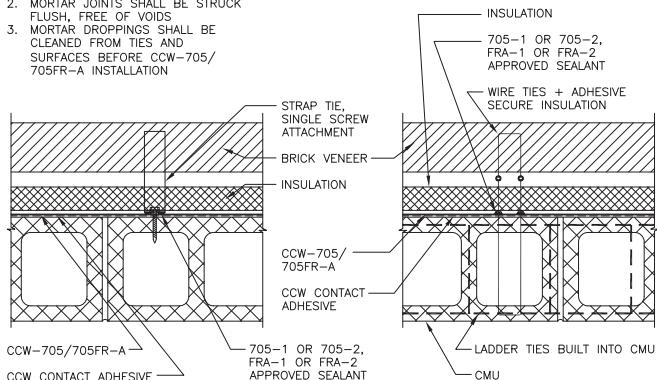
INSTALLATION INSTRUCTIONS

705-6B/705FR-A-6B – CCW-705/CCW-705FR-A Brick Ties – CMU

NOTES:

1. INSTALL STRAP TIES AFTER CCW-705/705FR-A
2. MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS
3. MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE CCW-705/705FR-A INSTALLATION

NOTE: SECURE INSULATION WITH CAV-GRIP OR FRA-A APPROVED INSUL. ADHESIVE

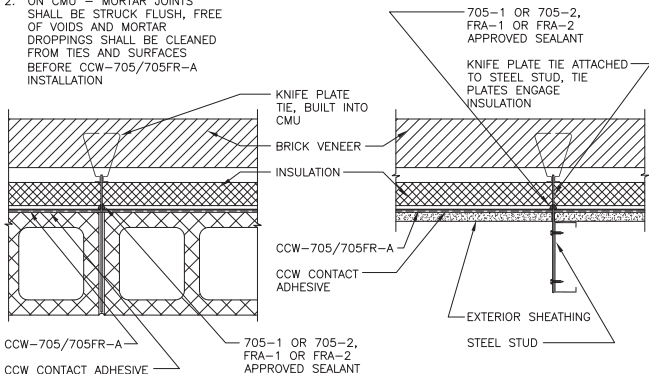


705-6C/705FR-A-6C – CCW-705/CCW-705FR-A Knife Plate Type Ties CMU and Sheathing

NOTES:

1. TIES ARE IN PLACE BEFORE CCW-705/705FR-A INSTALLATION
2. ON CMU – MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS AND MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE CCW-705/705FR-A INSTALLATION

NOTE: SECURE INSULATION WITH CAV-GRIP OR FRA-A APPROVED INSUL. ADHESIVE



CCW-705/FIRE RESIST CCW-705FR-A

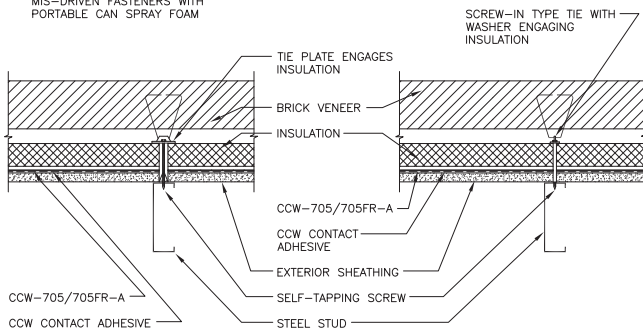
INSTALLATION INSTRUCTIONS

705-6D/705FR-A-6D – Brick Ties, Attached to Stud Through Insulation and Sheathing

NOTES:

1. DRIVE FASTENERS STRAIGHT, DO NOT OVER-DRIVE
2. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH PORTABLE CAN SPRAY FOAM

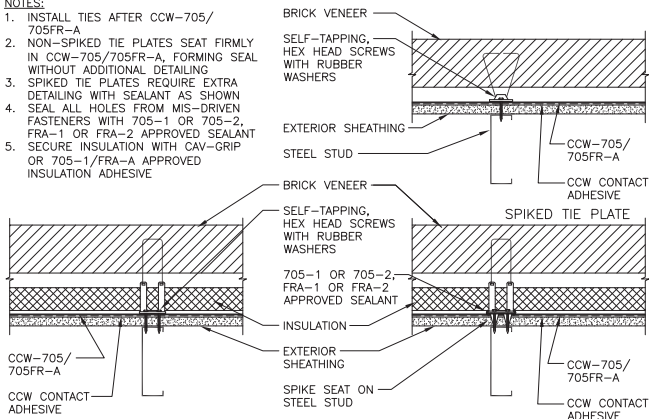
NOTE: SECURE INSULATION WITH CAV-GRIP OR FRA-A APPROVED INSULATION ADHESIVE



705-6E/705FR-A-6E – CCW-705/CCW-705FR-A 2-Screw Brick Ties, Attachment to Stud Through Sheathing

NOTES:

1. INSTALL TIES AFTER CCW-705/705FR-A
2. NON-SPIKED TIE PLATES SEAT FIRMLY IN CCW-705/705FR-A, FORMING SEAL WITHOUT ADDITIONAL DETAILING
3. SPIKED TIE PLATES REQUIRE EXTRA DETAILING WITH SEALANT AS SHOWN
4. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH 705-1 OR 705-2, FRA-1 OR FRA-2 APPROVED SEALANT
5. SECURE INSULATION WITH CAV-GRIP OR 705-1/FRA-A APPROVED INSULATION ADHESIVE



INSTALLATION INSTRUCTIONS

Expansion Joint

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application:

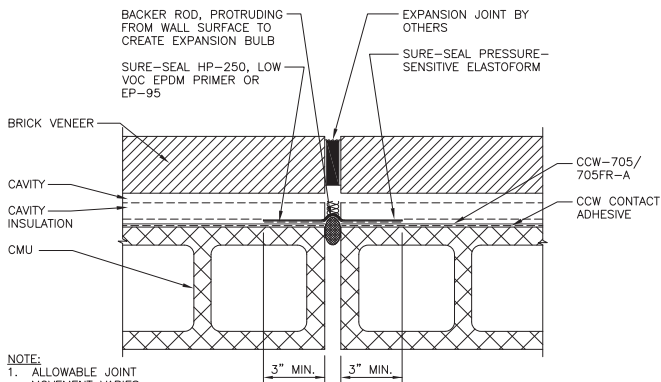
Sure-Seal Pressure-Sensitive Elastoform

1. Apply CCW-705/CCW-705FR-A over the substrate in accordance with current CCW published literature.
2. Install backer rod into the joint protruding from the wall to create an expansion bulb.
3. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
4. Application of Sure-Seal Pressure-Sensitive Elastoform shall proceed when CCW contact adhesive can no longer transfer to touch.
5. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
6. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
7. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.

CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-3B/705FR-A-3B – CCW-705/CCW-705FR-A CMU Expansion Joint



INSTALLATION INSTRUCTIONS

Window Rough Opening

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Provide continuous air seal around interior perimeter of window. Contact window manufacturer for specific installation instructions.
- Ensure continuity of air/vapor barrier is maintained at window penetration.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

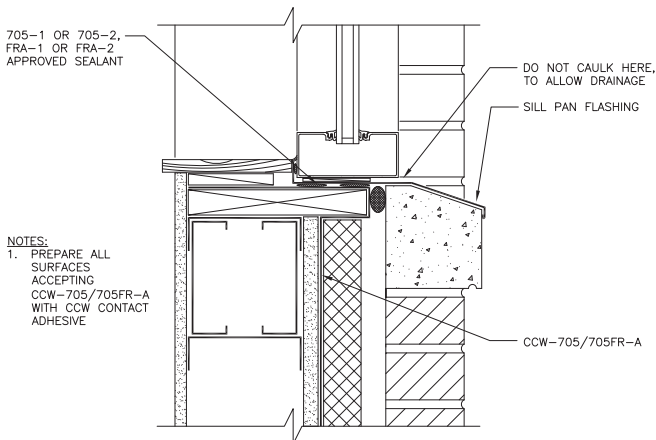
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705/CCW-705FR-A Strips. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A is not installed on the same day.
3. Cut and install 4-each, minimum 6-inch detail strips of CCW-705FR-A at all corner head/jamb and jamb/sill window transitions.
4. Application of CCW-705/CCW-705FR-A Strips shall proceed when CCW contact adhesive can no longer transfer to touch.
5. Cut CCW-705/CCW-705FR-A Strips to desired length and apply in rough window sill 1st, jamb 2nd, and window head last. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
6. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.
7. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705 TWF at the fasteners and seal with approved sealant.

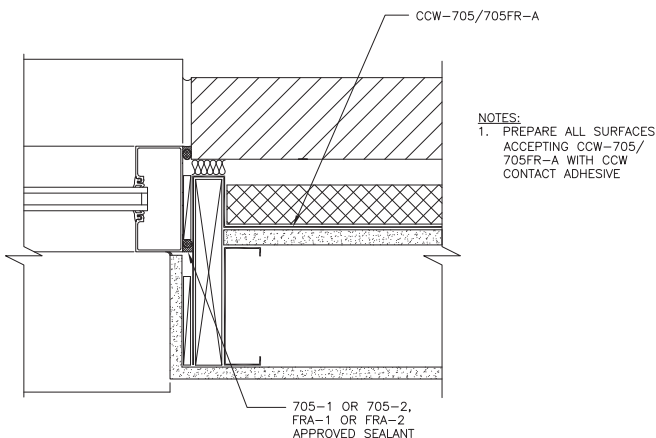
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-5B.1/705FR-A-5B.1 – CCW-705/CCW-705FR-A Punched Window – Sill



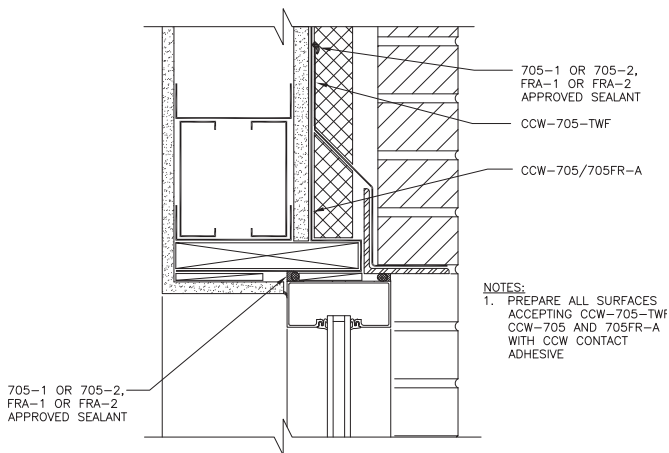
705-5B.2/705FR-A-5B.2 – CCW-705/CCW-705FR-A Punched Window – Jamb



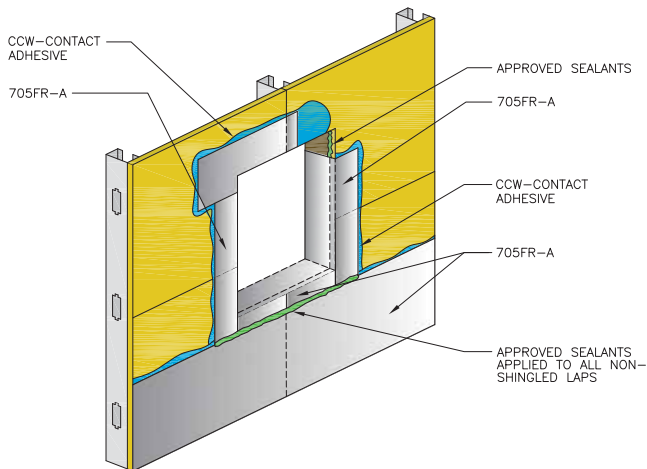
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-5B.3/705FR-A-5B.3 – CCW-705/CCW-705FR-A Punched Window – Head



705-17/705FR-A-17 – Isometric Rough Opening – Sill, Jamb and Head



INSTALLATION INSTRUCTIONS

Parapet

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at wall to roof transition.
- Verify blocking is installed and secured per design.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

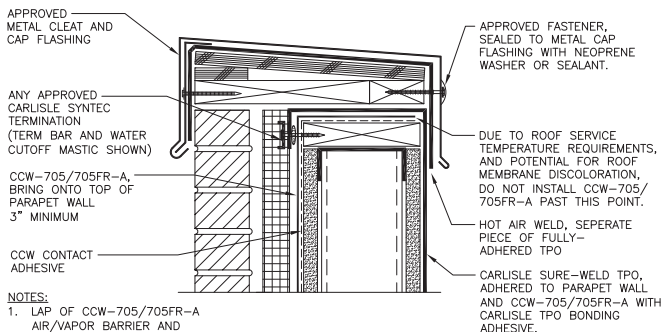
Application:

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the area extending the material a minimum of 1-inch beyond the edge of the CCW-705/CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A are not installed on the same day.
3. Application of CCW-705/CCW-705FR-A shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705/CCW-705FR-A a minimum of 2-inches horizontally and vertically.
6. CCW-705/CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system and vice versa.
7. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

CCW-705/FIRE RESIST CCW-705FR-A

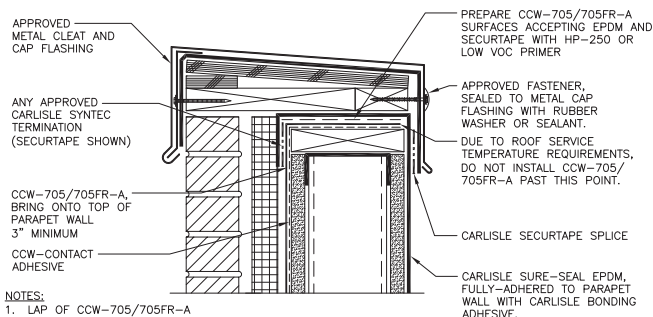
INSTALLATION INSTRUCTIONS

705-11C/705FR-A-11C – CCW-705/CCW-705FR-A Tie-In to TPO Roof at Parapet



1st: CCW-705/705FR-A AIR/VAPOR BARRIER
2nd: SURE-WELD TPO ROOFING

705-11E/705FR-A-11E – CCW-705/CCW-705FR-A Tie-In to EPDM Roof at Parapet

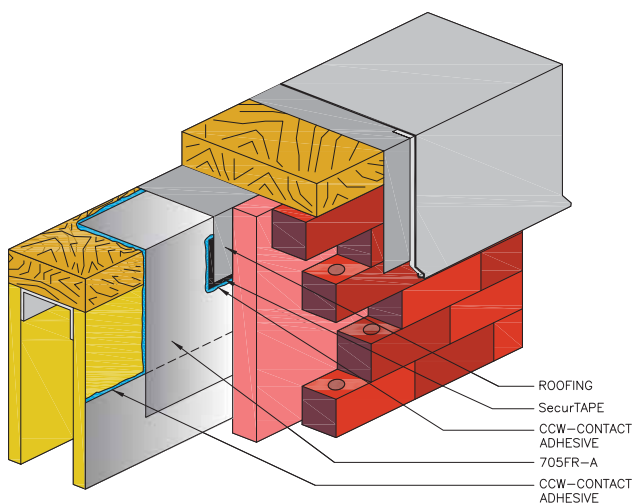


1st: CCW-705/705FR-A AIR/VAPOR BARRIER
2nd: SURE-SEAL EPDM ROOF

CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-11J/705FR-A-11J – Isometric Parapet Edge Flashing



INSTALLATION INSTRUCTIONS

Foundation

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at foundation to wall transition.
- Verify waterproofing has been completed and all materials are compatible at tie-in locations.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application:

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending minimum of 1-inch beyond the edge of CCW-705/CCW-705FR-A Strips onto the compatible waterproofing membrane.
3. Application of CCW-705/CCW-705FR-A Strips shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Apply CCW-705/CCW-705FR-A in accordance with current CCW published literature.
6. Install CCW-705/CCW-705FR-A through wall flashing, per design.

CCW-705/FIRE RESIST CCW-705FR-A

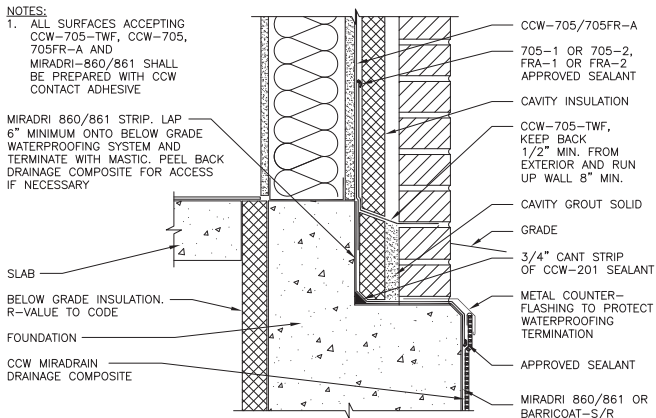
INSTALLATION INSTRUCTIONS

705FR-A-16A – CCW-705/CCW-705FR-A Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING CCW-705-TWF, CCW-705, 705FR-A AND MIRADRI-860/861 SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY



INSTALLATION INSTRUCTIONS

Shelf Angle Through-Wall Flashing

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Treatment prior to shelf angle installation

NOTE: CCW-705-TWF should be used for all through wall flashing locations including brick ledges, shelf angles, and window heads/sills where brick will bear onto the membrane. Metal Flashing can also be used for this condition.

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705-TWF Strips.
2. Application of CCW-705-TWF Strips shall proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705/CCW-705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the CCW-705-TWF with hand roller to strengthen adhesion.
4. Apply CCW-705-TWF in accordance with current CCW published literature.
5. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
6. Application of Sure-Seal Pressure-Sensitive Elastoform shall proceed when CCW contact adhesive can no longer transfer to touch.
7. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
8. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
9. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
10. Install backing, shelf angle and insulation.
11. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

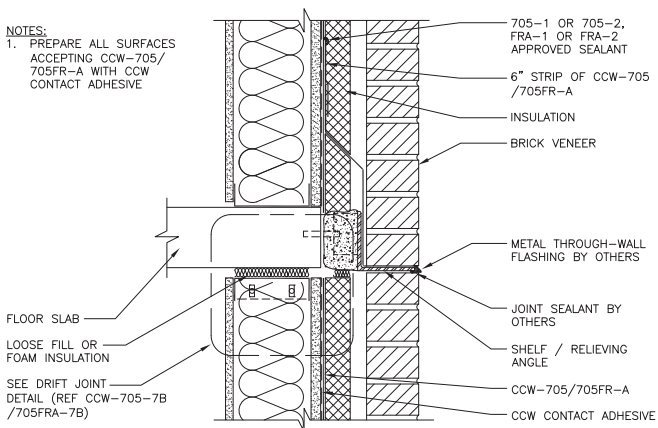
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-7A/705FR-A-7A – CCW-705/CCW-705FR-A Shelf Angle

NOTES:

1. PREPARE ALL SURFACES
ACCEPTING CCW-705/
705FR-A WITH CCW
CONTACT ADHESIVE



INSTALLATION INSTRUCTIONS

Treatment with shelf angle installed

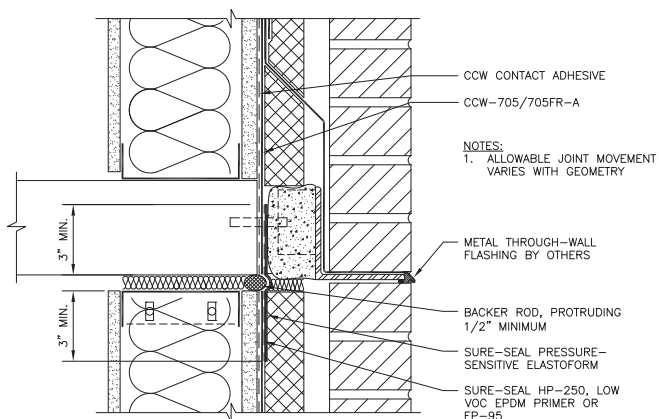
NOTE: CCW-705-TWF should be used for all through wall flashing locations including brick ledges, shelf angles, and window heads/sills where brick will bear onto the membrane. Metal Flashing can also be used for this condition.

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705-TWF over the top and underside of steel angle.
2. Application of CCW-705-TWF shall proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705-TWF to desired length and apply a minimum of 3-inches above the steel, bringing the CCW-705-TWF down so that it terminates ½ -inch from brick face. Apply CCW-705-TWF a minimum of 3-inches on the underside of steel angle and sheathing. Firmly roll the CCW-705-TWF with hand roller to strengthen adhesion.
4. Overlap CCW-705-TWF horizontally minimum of 2-inches.
5. Apply CCW-705-TWF in accordance with current CCW published literature.

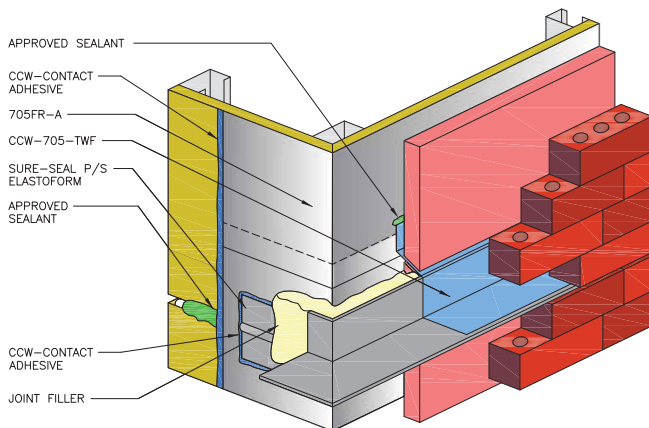
CCW-705/FIRE RESIST CCW-705FR-A

INSTALLATION INSTRUCTIONS

705-7B/705FR-A-7B – CCW-705/CCW-705FR-A Drift Joint at Floor



705-11K/705FR-A-11K – Isometric Shelf Angle



FIRE RESIST CCW-705VP

TABLE OF CONTENTS

Installation Guidelines	173
Coordination	173
Substrate	174
Project/Site Conditions	174
Delivery, Storage and Handling	175
Application	175
 CCW-705VP Installation Instructions	 176
705VP-2A – CCW-705VP Laps	177
Vertical Oriented Installation	178
705VP-2B – Option 1	178
Horizontal Oriented Installation	179
705VP-2C – Option 2: CCW-705VP	179
CCW-705VP T-Joints	180
705VP-2D – CCW-705VP Vertical T-Joints	180
705VP-2E – CCW-705VP Horizontal T-Joints	180
 Expansion Joint Installation Instructions	 181
705VP-3A – CCW-705VP Sheathing Vertical Expansion Joint	183
705VP-3B – CCW-705VP CMU Expansion Joint	183
Exterior Sheathing Joints	184
705VP-4A – CCW-705VP-Exterior Sheathing Joints	185
705VP-4B – CCW-705VP-Exterior Sheathing	
Vertical Control Joints	186
Exterior CMU Control Joints	187
705VP-4C – CCW-705VP CMU Control Joints	187
 Window Rough Opening Installation Instructions	 188
705VP-5B.1 – CCW-705VP Punched Window – Sill	190
705VP-5B.2 – CCW-705VP Punched Window – Jamb	190
705VP-5B.3 – CCW-705VP Punched Window – Head	191
705VP-17 – CCW-705VP Isometric Rough Opening –	
Sill, Jamb, And Head	191
705VP-5D – CCW-705VP Wood Stud and Sheathing	
Window Flange Detail	192

FIRE RESIST CCW-705VP

TABLE OF CONTENTS

Brick Ties Installation Instructions	193
705VP-6A – CCW-705VP Insulation on CMU with Embedded Ladder Ties	194
705VP-6B – CCW-705VP Brick Ties - CMU.....	194
705VP-6C – CCW-705VP Sheathing & CMU Knife Plate Type Wall Ties Insulation and Sheathing	195
705VP-6D – CCW-705VP Brick Ties, Attached to Stud through Insulation & Sheathing	195
705VP-6E – CCW-705VP 2-Screw Brick Ties, Attachment to Stud through Sheathing	196
Shelf Angle Through-Wall Flashing Installation Instructions.....	197
Application: Treatment prior to shelf angle installation.....	198
705VP-7A – CCW-705VP Shelf Angle	199
Application: Treatment with shelf angle installed.....	200
705VP-7B – CCW-705VP Drift Joint at Floor.....	200
Parapet Installation Instructions	201
CCW-705VP Tie-In to PVC	203
705VP-11A – CCW-705VP Tie-In to PVC Roof at Parapet.....	203
705VP-11B – CCW-705VP Tie-In to PVC Roof at Parapet.....	203
CCW-705VP Tie-In to TPO	204
705VP-11C – CCW-705VP Tie-In to TPO Roof at Parapet.....	204
705VP-11D – CCW-705VP Tie-In to TPO Roof at Parapet.....	204
CCW-705VP Tie-In to EPDM.....	205
705VP-11E – CCW-705VP Tie-In to EPDM Roof at Parapet.....	205
705VP-11F – CCW-705VP Tie-In to EPDM Roof at Parapet.....	205
CCW-705VP Tie-In to Roofing Vapor Retarder.....	206
705VP-11G – CCW-705VP Tie-In to Roofing Vapor Retarder Roof at Parapet.....	206
Pipe and Mechanical Penetration Installation Instructions	207
705VP-14A.1 – CCW-705VP at Pipe Penetration	209
705VP-14A.2 – Cutting CCW-705VP Strips For Pipe Penetration.....	209
Inside/Outside Corners Installation Instructions.....	210
705VP-15A – CCW-705VP Inside/Outside Corners	211
Foundation Installation Instructions	212
705VP-16A – CCW-705VP Foundation Tie-In.....	214

INSTALLATION GUIDELINES

This application guide has been assembled to assist in the application of CCW-705VP and is intended to offer guidance to the construction community. It is intended to be used in conjunction with current CCW published literature. Other acceptable methods of application that are not depicted in this guide may be incorporated during construction provided all applications follow proven and sound construction techniques.

Coordination

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous air/vapor barrier is achieved across the building envelope.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing, and repair procedures.
- Mock-up shall establish procedures and workmanship that must be maintained during installation.
- Review adjacent construction materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

FIRE RESIST CCW-705VP

INSTALLATION GUIDELINES

Substrate

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Gaps and cracks exceeding ¼-inch across shall be filled with materials and technique approved by CCW.
- Substrate systems and the structural performance thereof shall be engineered by others.
- Prevent the accumulation of water infiltration behind the substrate.
- CCW-705VP are not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.

Project/Site Conditions

- CCW-705VP can be applied in ambient and substrate temperatures down to 20°F; special installation procedures are required for installation below 40°F. Installation below 40°F requires the use of either CCW Cav-Grip or Travel-Tack Contact Adhesives. Contact adhesive may be required at laps.
- Do not apply Fire Resist CCW-705VP and associated materials in ambient and substrate temperatures below 20°F. **Follow special procedure installation requirements when ambient and substrate temperatures fall below 40°F.**
- Do not apply CCW-705VP and associated materials to damp or frozen surfaces.
- Do not apply in rain or if rain is expected during application time.
- Limit exposure of CCW-705VP and associated products to a maximum of 180 days for CCW Fire Resist 705VP.

INSTALLATION GUIDELINES

Delivery, Storage and Handling

- Deliver CCW materials in original unopened packages.
- Protect CCW materials during transportation, storage, and installation to avoid physical damage.
- Store CCW-705VP rolls on end and do not double stack pallets.
- Store CCW materials in cool dry place protected from freezing, direct sunlight, and extreme heat.

Application

- Protect surrounding areas and surfaces from damage and staining during application of CCW-705VP.
- Apply CCW-705VP and associated products in accordance with current CCW published literature.
- Overlap adjoining pieces minimum 3-inches for Fire Resist CCW-705VP.
- CCW-705VP shall bear minimum 3-inches onto each side of transitions such as joints, angle changes and substrate changes.
- CCW-705VP shall bear minimum 6-inches onto adjacent membrane systems such as foundation waterproofing or roofing.
- Protect finished work at end of each day to prevent moisture intrusion and damage.
- Ensure a continuous air/vapor barrier is achieved across the building envelope.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

CCW-705VP

Installation Instructions

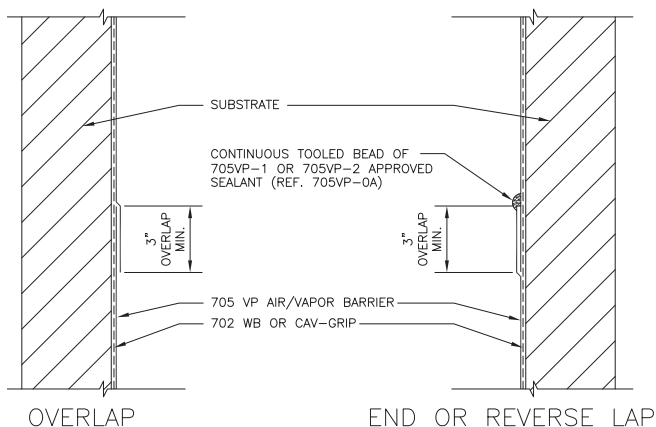
- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

Application

705VP-2A – CCW-705VP Laps



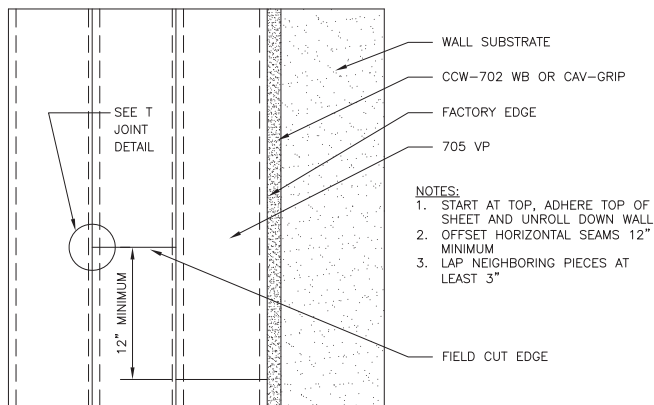
1. All CCW 705VP Laps should extend a minimum 3" onto each adjacent sheet.
2. End and Reverse Laps should be sealed with a bead of an approved sealant (ref. 705VP-0A, Group 705VP-1 and Group 705VP-2.)

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

Vertical Oriented Installation

705VP-2B – Option 1



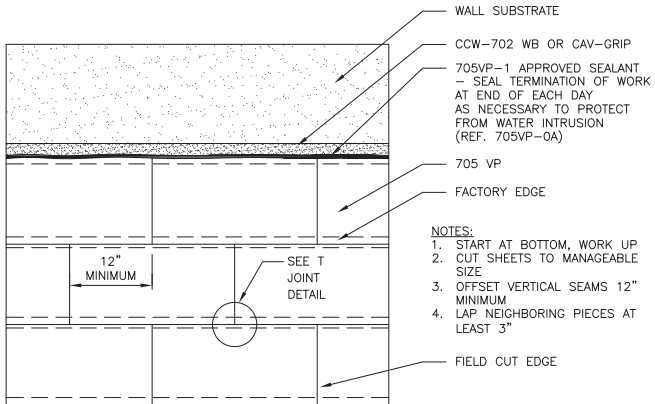
1. Install CCW-705VP in vertical rows in sheets of manageable size starting at top unrolling down the wall.
2. Apply CCW contact adhesive (CCW-702WB, CAV-GRIP and TRAVEL-TACK) to all surfaces accepting CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP is not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto each side of neighboring pieces and offsetting vertical seams minimum 12-inches. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Apply approved sealant for CWW-705VP to field cut edges, T-joints, reverse laps and terminations.
6. Apply SURE-SEAL Lap Sealant for Fire Resist CCW-705VP to field cut edges, T-joints, reverse laps and terminations.
7. Apply CCW-705VP in accordance with current CCW published literature.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

Horizontal Oriented Installation

705VP-2C – Option 2: CCW-705VP



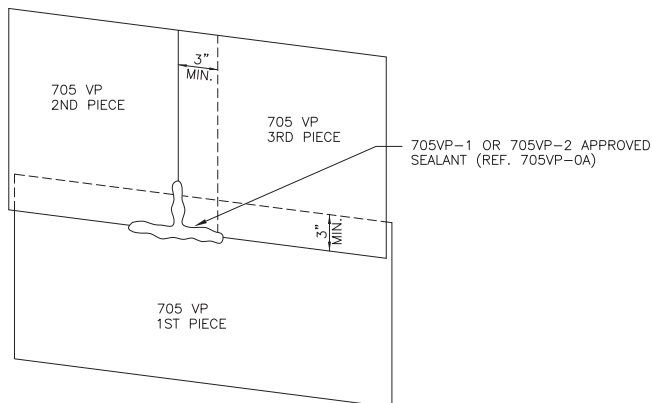
1. Install CCW-705VP in horizontal rows in sheets of manageable size starting at bottom and working up.
2. Apply CCW contact adhesive (CCW-702WB, CAV-GRIP, or TRAVEL-TACK) to all surfaces accepting CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP are not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto each side of neighboring pieces and offsetting vertical seams minimum 12-inches. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Apply approved sealant for CCW-705VP to field cut edges, T-joints, reverse laps and terminations.
6. Apply CCW-705VP in accordance with current CCW published literature.

FIRE RESIST CCW-705VP

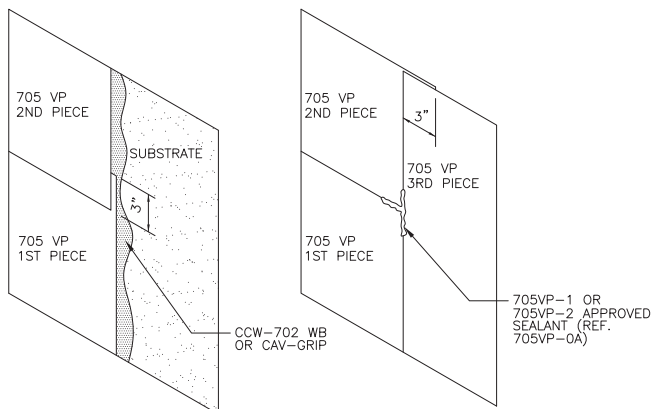
INSTALLATION INSTRUCTIONS

CCW-705VP T-Joints

705VP-2D – CCW-705VP Vertical T-Joints



705VP-2E – CCW-705VP Horizontal T-Joints



INSTALLATION INSTRUCTIONS

Expansion Joint

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Sure-Seal Pressure-Sensitive Elastoform

1. Apply CCW-705VP over the substrate in accordance with current CCW published literature.
2. Install backer rod into the joint protruding from the wall to create an expansion bulb.
3. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
4. Application of Sure-Seal Pressure-Sensitive Elastoform shall proceed when CCW contact adhesive can no longer transfer to touch.
5. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
6. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
7. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically with CCW 705VP.
8. Apply an approved sealant over CCW-705VP to Sure-Seal Pressure Sensitive Elastoform Termination (Ref. 705VP-0A).

INSTALLATION INSTRUCTIONS

Exterior Sheathing Joints

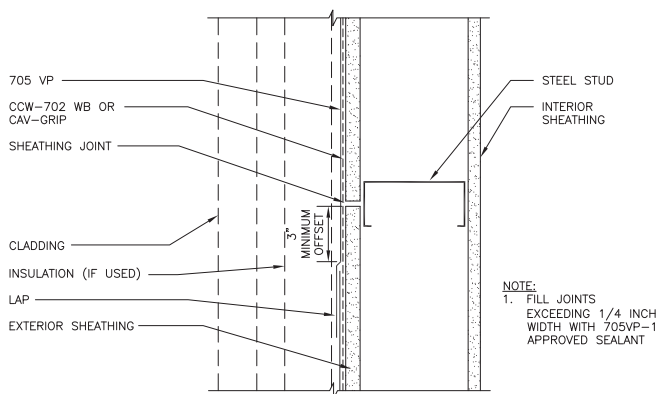
Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-4A – CCW-705VP Exterior Sheathing Joints

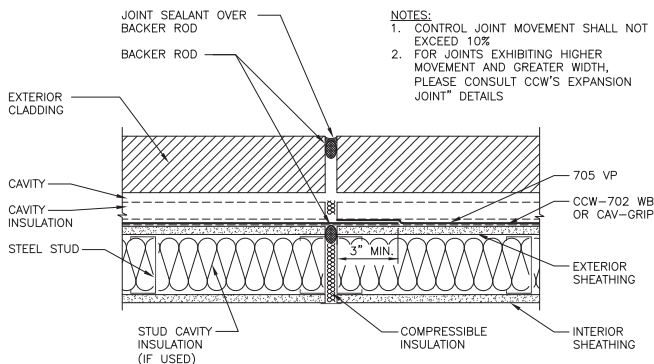


1. All sheathing joints exceeding 1/4" width must be filled with a 705VP-1 Approved Sealant (Ref. 705VP-0A for a list of Approved Sealants).

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-4B – CCW-705VP Exterior Sheathing Vertical Control Joints



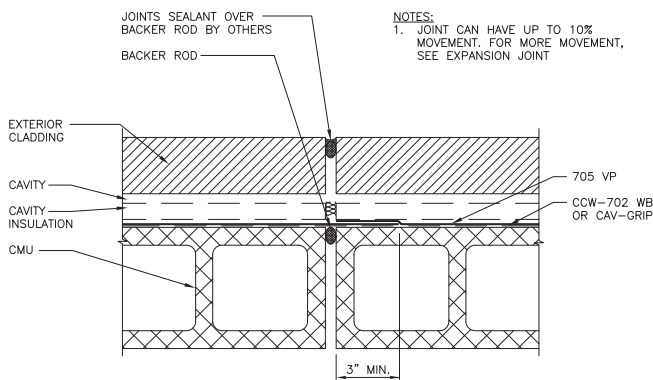
1. All sheathing vertical control joints must be filled with either backer rod or filled with a 705VP-1 Approved Sealant (Ref. 705VP-0A for a list of Approved Sealants).

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

Exterior CMU Control Joints

705VP-4C – CCW-705VP CMU Control Joints



1. All CMU Control Joints must be filled with backer rod or a 705VP-1 Approved Sealant (Ref. 705VP-0A for a list of Approved Sealants).

INSTALLATION INSTRUCTIONS

Window Rough Opening

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Provide continuous air seal around interior perimeter of window. Contact window manufacturer for specific installation instructions.
- Ensure continuity of air/vapor barrier is maintained at window penetration.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Flashing options at window openings include:

- CCW-705FR-A
- CCW-705
- CCW Aluma-Grip 701
- CCW Barritech NP AT 60-Wet Mils with CCW LiquiFiber Embedded

INSTALLATION INSTRUCTIONS

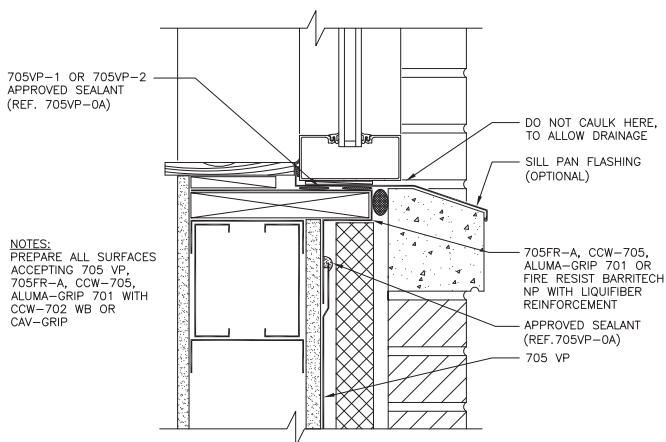
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A).
2. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP is not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705FR-A, CCW-705, or ALUMA-GRIP 701 to desired length and apply in rough window sill 1st, jamb 2nd, and window head last. Firmly roll the CCW-705FR-A, CCW-705, or ALUMA-GRIP 701 with hand roller to strengthen adhesion. An alternative Fluid Applied option includes applying CCW-Barritech NP at 60-wet mils with CCW-Liquifiber embedded. (Refer to standard Barritech NP Details BNP-5.B.1, 5B.2, and 5B.3)
5. With Sheet Applied Membrane Option, treat sill/jamb corners with an additional piece of CCW-705FR-A, CCW-705, or ALUMA-GRIP 701 extending onto face of adjoining membrane a minimum of 3-inches.
6. Apply CCW-705VP in accordance with current CCW published literature.
7. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant.

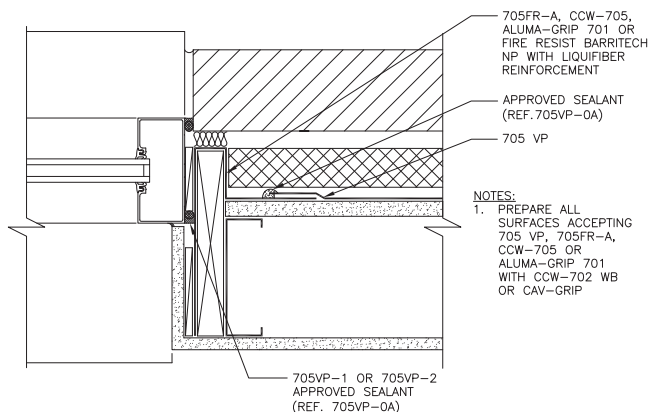
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-5B.1 – CCW-705VP Punched Window – Sill



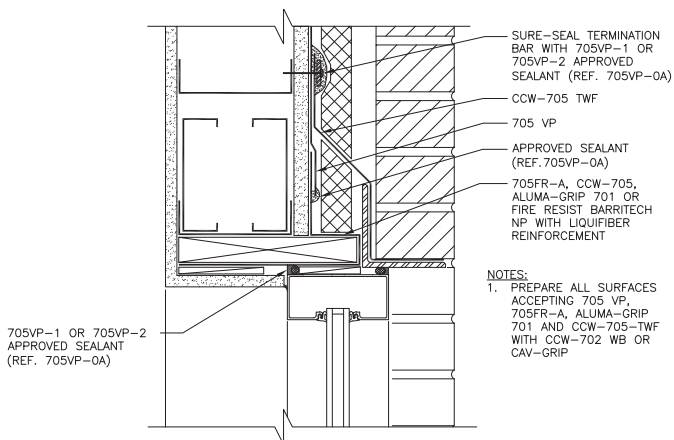
705VP-5B.2 – CCW-705VP Punched Window – Jamb



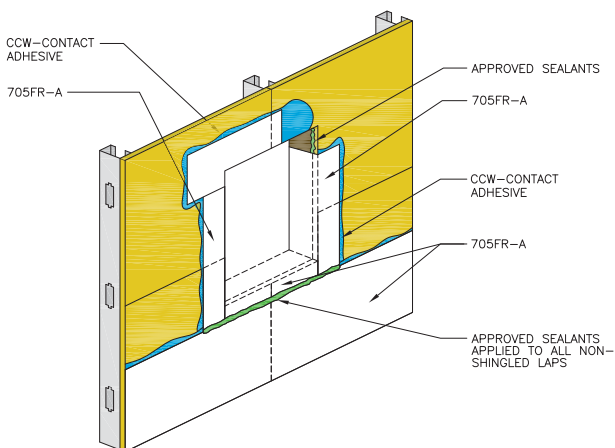
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-5B.3 – CCW-705VP Punched Window Head



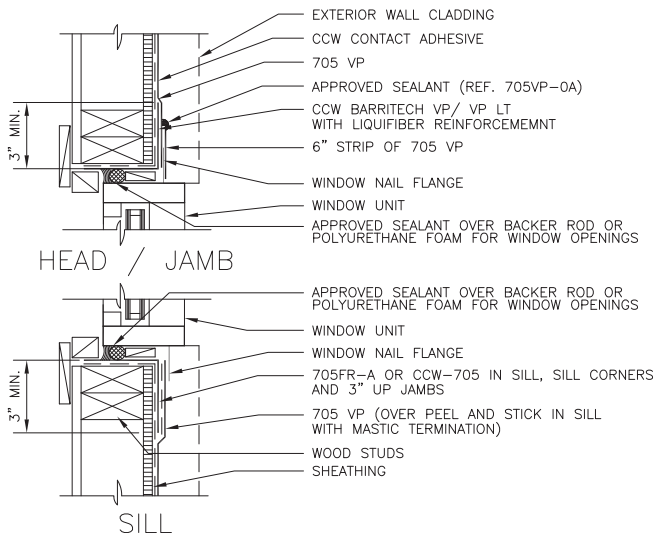
705VP-17 – CCW-705VP Isometric Rough Opening – Sill, Jamb, And Head



FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-5D – CCW-705VP Wood Stud And Sheathing Window Flange Detail



INSTALLATION INSTRUCTIONS

Brick Ties

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

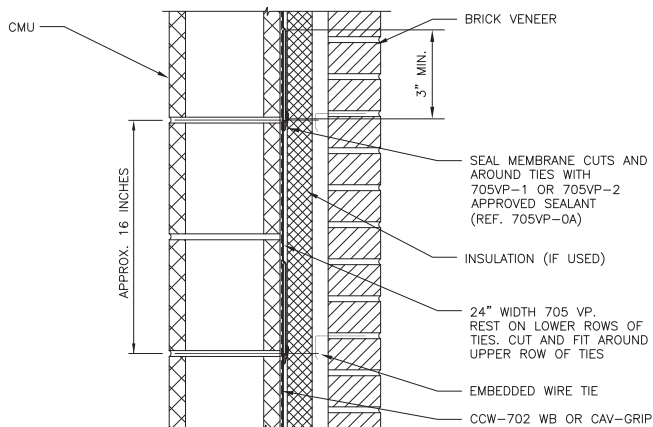
Application

1. Apply CCW-705VP over the substrate in accordance with current CCW published literature.
2. Install brick ties in accordance with brick tie manufacturer instructions ensuring fasteners are straight, not over driven and a compression seal is achieved. All holes from mis-driven fasteners must be sealed. Fill all voids around CMU brick ties with mortar or sealant.
3. If brick ties are in place prior to CCW-705VP installation treat penetrations with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A prior to CCW-705VP application.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-6A – CCW-705VP Insulation on CMU with Embedded Ladder Ties

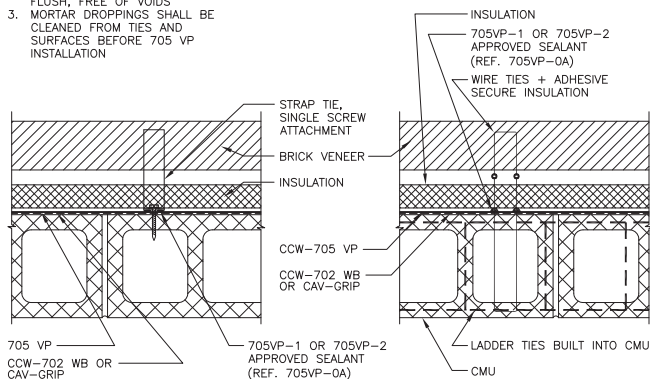


705VP-6B – CCW-705VP Brick Ties – CMU

NOTES:

1. INSTALL STRAP TIES AFTER 705 VP
2. MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS
3. MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE 705 VP INSTALLATION

NOTE: SECURE INSULATION WITH CAV-GRIP OR 705VP-A APPROVED INSUL. ADHESIVE



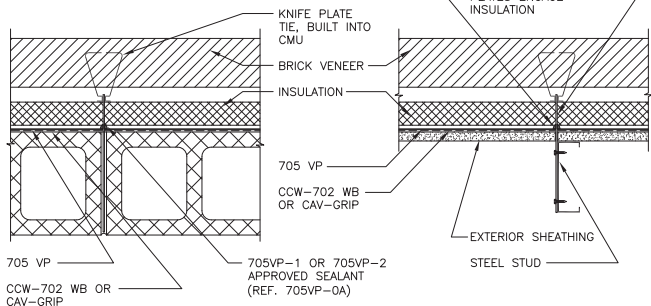
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-6C – CCW-705VP Sheathing & CMU Knife Plate Type Wall Ties

NOTES:

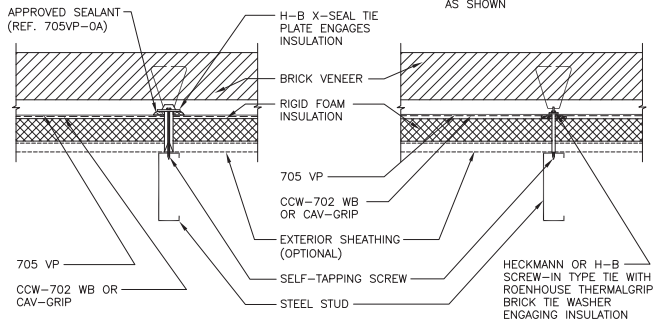
1. TIES ARE IN PLACE BEFORE 705 VP INSTALLATION
2. ON CMU – MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS AND MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE 705 VP INSTALLATION



705VP-6D – CCW-705VP Brick Ties, Attached To Stud Through Insulation And Sheathing

NOTES:

1. DRIVE FASTENERS STRAIGHT, DO NOT OVER-DRIVE
2. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH PORTABLE CAN SPRAY FOAM
3. SECURE INSULATION WITH CAV-GRIP OR 705VP-A APPROVED INSULATION ADHESIVE
4. 705VP IS RECOMMENDED FOR APPLICATION OVER THE INSULATION WITH THESE TYPES OF BRICK TIES. THIS HARDWARE FORMS AN AIR AND WATER TIGHT SEAL TO 705VP WHEN INSTALLED AS SHOWN



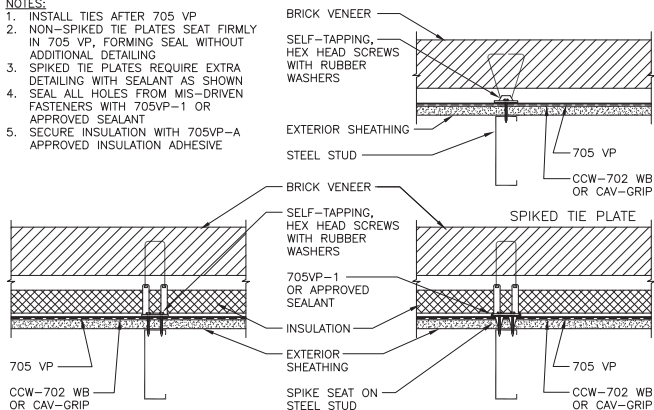
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-6E – CCW-705VP 2-Screw Brick Ties, Attachment Through Type Wall Ties

NOTES:

1. INSTALL TIES AFTER 705 VP
2. NON-SPIKED TIE PLATES SEAT FIRMLY IN 705 VP, FORMING SEAL WITHOUT ADDITIONAL DETAILING
3. SPIKED TIE PLATES REQUIRE EXTRA DETAILING WITH SEALANT AS SHOWN
4. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH 705VP-1 OR APPROVED SEALANT
5. SECURE INSULATION WITH 705VP-A APPROVED INSULATION ADHESIVE



INSTALLATION INSTRUCTIONS

Shelf Angle Through-Wall Flashing

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Treatment prior to shelf angle installation

1. Apply CCW contact adhesive (CCW-702WB, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705VP Strips.
2. Application of CCW-705VP Strips shall proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705VP Strips to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
4. Apply CCW-705VP in accordance with current CCW published literature.
5. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform. **(INSTALL SELF-ADHERING FLASHING DETAILS DIRECTLY TO SUBSTRATE, NOT FIRE-RESIST 705VP).**
6. Application of Sure-Seal Pressure-Sensitive Elastoform shall proceed when CCW contact adhesive can no longer transfer to touch.
7. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
8. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
9. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
10. Install backing, shelf angle and insulation.
11. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

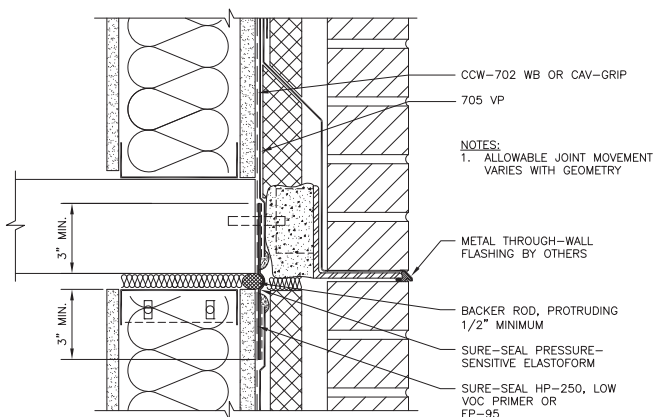
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

Treatment prior to shelf angle installation

1. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705FR Strips over the top and underside of steel angle.
2. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
3. CCW-705VP to desired length and apply a minimum of 3-inches above the steel, bringing the CCW-705-TWF down so that it terminates $\frac{1}{2}$ -inch from brick face. Apply CCW-705/CCW-705FR a minimum of 3-inches on the underside of steel angle and sheathing. Firmly roll the CCW-705/CCW-705FR with a hand roller to strengthen adhesion.
4. Overlap CCW-705/CCW-705FR horizontally minimum of 3-inches with CCW 705VP.
5. Apply CCW-705/CCW-705FR/CCW-705VP in accordance with current CCW published literature.

705VP-7B— CCW-705VP Drift Joint at Floor



INSTALLATION INSTRUCTIONS

Parapet

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at wall to roof transition.
- Verify blocking is installed and secured per design.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

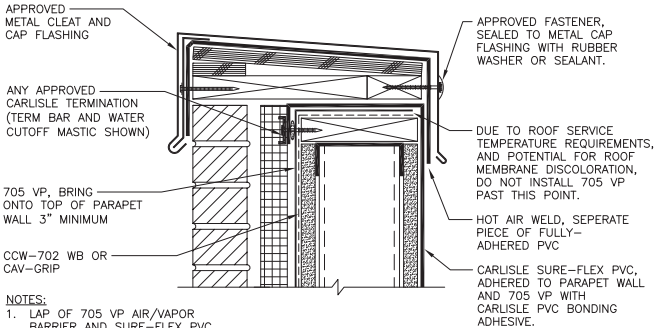
1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A).
2. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) over the area extending the material a minimum of 1-inch beyond the edge of the CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP are not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Overlap CCW-705VP a minimum of 3-inches horizontally and vertically.
6. CCW-705/CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system or vice versa.
7. Apply CCW-705VP in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

CCW-705VP Tie-In to PVC

705VP-11A – CCW-705VP Tie-In to PVC Roofing at Parapet Option 1

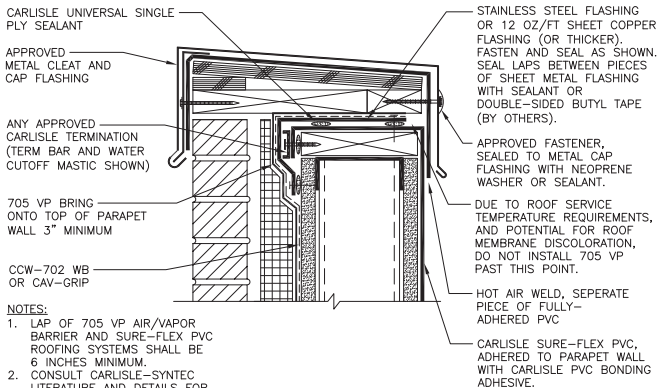


NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-FLEX PVC ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTec LITERATURE AND DETAILS FOR SURE-FLEX PVC ROOFING INSTALLATION.

1st: 705 VP AIR/VAPOR BARRIER
2nd: SURE-FLEX PVC ROOFING

705VP-11B – CCW-705VP Tie-In to PVC Roofing at Parapet Option 2



NOTES:

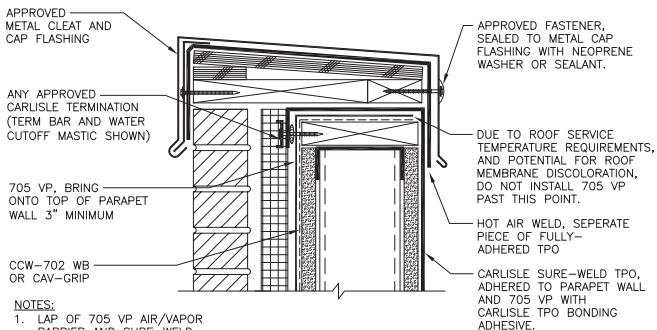
1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-FLEX PVC ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTec LITERATURE AND DETAILS FOR SURE-FLEX PVC ROOFING INSTALLATION.

1st: SURE-FLEX PVC ROOFING
2nd: 705 VP AIR/VAPOR BARRIER

INSTALLATION INSTRUCTIONS

CCW-705VP Tie-In to TPO

705VP-11C – CCW-705VP Tie-In to TPO Roofing at Parapet Option 1

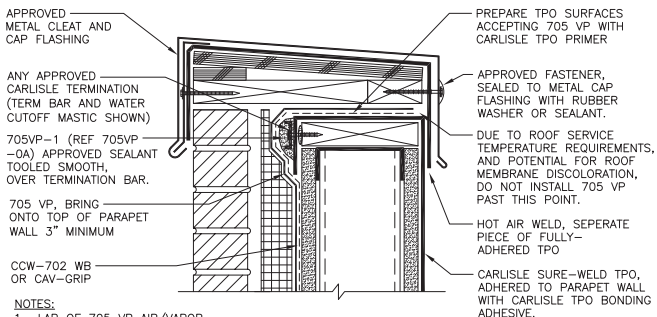


NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: 705 VP AIR/VAPOR BARRIER
2nd: SURE-WELD TPO ROOFING

705VP-11D– CCW-705VP Tie-In to TPO Roofing at Parapet Option 2



NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

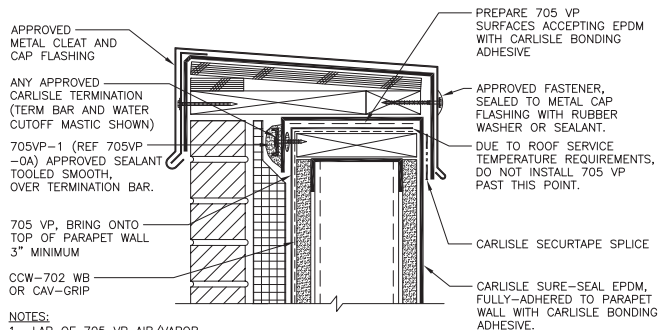
1st: SURE-WELD TPO ROOFING
2nd: 705 VP AIR/VAPOR BARRIER

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

CCW-705VP Tie-In to EPDM

705VP-11E – CCW-705VP Tie-In to EPDM Roofing at Parapet Option 1

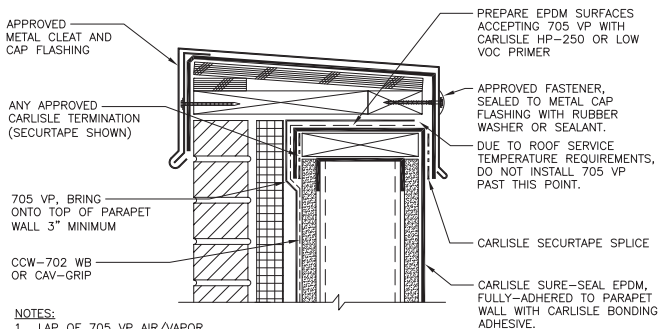


NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

1st: 705 VP AIR/VAPOR BARRIER
2nd: SURE-SEAL EPDM ROOF

705VP-11F – CCW-705VP Tie-In to EPDM Roofing at Parapet Option 2



NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

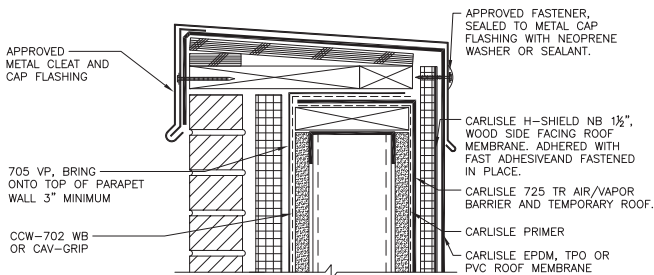
1st: SURE-SEAL EPDM ROOF
2nd: 705 VP AIR/VAPOR BARRIER

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

CCW-705VP Tie-In to Roofing Vapor Retarder

705VP-11G – CCW-705VP Tie-In to Roofing Vapor Retarder at Parapet



NOTES:

1. LAP OF 705 VP AIR/VAPOR BARRIER AND 725 TR AIR/VAPOR BARRIER SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR 725 TR INSTALLATION.

1st: 725 TR AIR/VAPOR BARRIER

2nd: 705 VP AIR/VAPOR BARRIER

INSTALLATION INSTRUCTIONS

Pipe and Mechanical Penetration

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixture or conduit and plumbing penetrations to form a back dam.
- Closed cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

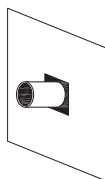
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A).
2. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) over the area extending the material a minimum of 1-inch beyond the edge of the CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP are not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Overlap CCW-705VP a minimum of 3-inches horizontally and vertically.
6. CCW-705/CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system or vice versa.
7. Apply CCW-705VP in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

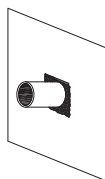
FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

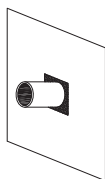
705VP-14A.1 – CCW-705VP at Pipe Penetration



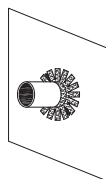
PIPE PENETRATION



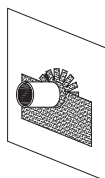
FILL TIGHTER GAPS WITH 705VP-1 APPROVED SEALANT. FILL ROUGH GAPS WITH EXPANDING PUR FOAM



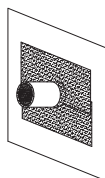
SHAVE PUR FOAM FLUSH AFTER CURE



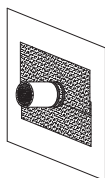
PREP SURFACE WITH CCW-702 WB OR CAV-GRIP CONTACT ADHESIVE. DO NOT INSTALL SOLVENT-BASED ADHESIVE OVER PUR FOAM. INSTALL 705 VP STRIP AROUND PIPE AS SHOWN



INSTALL 705 VP STRIP BELOW PIPE



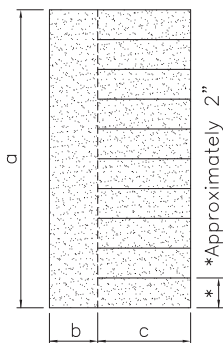
INSTALL 705 VP STRIP ABOVE PIPE



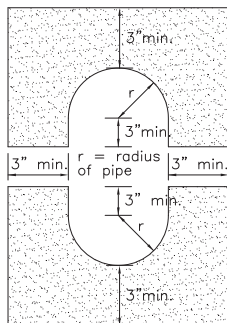
SEAL TERMINATION AND PIPE BASE WITH 705VP-1 OR 705VP-2 APPROVED SEALANT

705VP-14A.2 – Cutting CCW-705VP Strips For Pipe Penetration

PIECE TO INSTALL AROUND PIPE



PIECE TO INSTALL ABOVE PIPE



PIECE TO INSTALL BELOW PIPE

INSTALLATION INSTRUCTIONS

Inside/Outside Corners

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

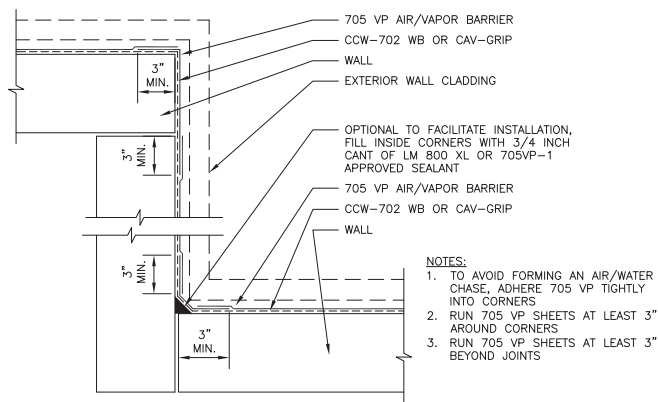
Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A).
2. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) over the area extending the material a minimum of 1-inch beyond the edge of the CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP are not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Overlap CCW-705VP a minimum of 3-inches horizontally and vertically.
6. CCW-705/CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system or vice versa.
7. Apply CCW-705VP in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-15A – CCW-705VP Inside/Outside Corners



INSTALLATION INSTRUCTIONS

Foundation

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixture or conduit and plumbing penetrations to form a back dam.
- Closed cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705VP-1 and Group 705VP-2 on detail 705VP-0A).
2. Apply CCW contact adhesive (CCW-702 WB, CAV-GRIP, or TRAVEL-TACK) over the area extending the material a minimum of 1-inch beyond the edge of the CCW-705VP. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705VP are not installed on the same day.
3. Application of CCW-705VP shall proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705VP to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705VP with hand roller to strengthen adhesion.
5. Overlap CCW-705VP a minimum of 3-inches horizontally and vertically.
6. CCW-705/CCW-705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system or vice versa.
7. Apply CCW-705VP in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

FIRE RESIST CCW-705VP

INSTALLATION INSTRUCTIONS

705VP-16A – CCW-705VP Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING 705 VP, CCW-705-TWF AND CCW-MIRADRI-860/861 STRIPS SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

CCW-MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

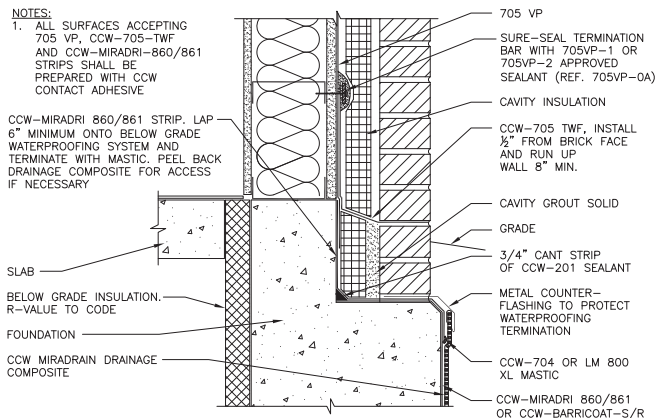


TABLE OF CONTENTS

Installation Guidelines	221
Coordination	221
Substrate	222
Project/Site Conditions	222
Delivery, Storage and Handling	223
Application	223
CCW Barriseal Installation Instructions	224
BVAB-1A – Option 1: CCW Barriseal-S Spray Applied	225
BVAB-1A – Option 2: CCW Barriseal-R	226
Sheathing Joints Installation Instructions	227
BVAB-4A – Option 1: CCW Barritape	228
BVAB-4A – Option 2: DCH Reinforcing Fabric	229
BVAB-4A – Option 3: Approved Sealant	230
BVAB-2A – Option 1: CCW Barriseal-R	231
BVAB-2A – Option 2: CCW Barriseal-S	232
BVAB-2A – Option 1: CCW-705/705FR-A Over Barriseal-R	233
BVAB-2A – Option 1: CCW-705/705FR-A Over Barriseal-S	234
Inside/Outside Corners Installation Instructions	235
BVAB-15A – Option 1: CCW CCW-705/705FR-A	236
BVAB-15A – Option 2: DCH Reinforcing Fabric	237
BVAB-15A – Option 3: CCW LiquiFiber	238
BVAB-15D – Isometric Corner Reinforcements	239
Pipe and Mechanical Penetration Installation Instructions	240
BVAB-14A – Option 1: CCW-705/705FR-A	241
BVAB-14B – Option 2: CCW LiquiFiber	242
BVAB-14C – Installation Sequence LiquiFiber at Pipe Penetration	243
BVAB-14D – Electrical Box Penetration Detail	244
Brick Ties Installation Instructions	245
BVAB-6B – Brick-Ties – CMU	246
BVAB-6C – Knife Plate Type Ties CMU and Sheathing	246
BVAB-6D – Brick Ties, Attached to Stud Through Insulation and Sheathing	247
BVAB-6E – 2-Screw Brick Ties, Attachment to Stud Through Sheathing	247
Expansion Joint Installation Instructions	248
BVAB-3A – Gypsum Sheathing Vertical Expansion Joint	249
BVAB-3B – CMU Expansion Joint	249

TABLE OF CONTENTS

Window Rough Opening Installation Instructions	250
Option 1: CCW-705/705FR-A	251
BVAB-5B.1 – Option 1: Punched Window – Sill.....	252
BVAB-5B.2 – Option 1: Punched Window – Jamb.....	252
BVAB-5B.3 – Option 1: Punched Window – Head	253
Option 2: CCW LiquiFiber	254
BVAB-5B.1 – Option 2: Punched Window – Sill.....	255
BVAB-5B.2 – Option 2: Punched Window – Jamb.....	255
BVAB-5B.3 – Option 2: Punched Window – Head	256
BVAB-17 – Isometric Rough Opening Sill, Jamb and Head	256
Parapet Installation Instructions	257
Option 1: CCW-705/705FR-A	258
BVAB-11C – Option 1: Tie-In to TPO Roof at Parapet	259
BVAB-11E – Option 1: Tie-In to EPDM Roof at Parapet.....	259
Option 2: DCH Reinforcing Fabric	260
BVAB-11C – Option 2: Tie-In to TPO Roof at Parapet	261
BVAB-11E – Option 2: Tie-In to EPDM Roof at Parapet.....	261
Option 3: CCW LiquiFiber	262
BVAB-11C – Option 3: Tie-In to TPO Roof at Parapet	263
BVAB-11E – Option 3: Tie-In to EPDM Roof at Parapet.....	263
BVAB-11J – Isometric Parapet Edge Flashing.....	264
Foundation Installation Instructions	265
Option 1: CCW-705/705FR-A	266
BVAB-16A – Option 1: Foundation Tie-In	267
Option 2: DCH Reinforcing Fabric	268
BVAB-16A – Option 2: Foundation Tie-In	269
Option 3: CCW LiquiFiber	270
BVAB-16A – Option 3: Foundation Tie-In	271
Shelf Angle Through-Wall Flashing Installation Instructions	272
Application: Treatment prior to shelf angle installation.....	273
Option 1: CCW-705/705FR-A	273
BVAB-7B – Option 1: Drift Joint at Floor	274
Option 2: DCH Reinforcing Fabric	275
BVAB-7B – Option 2: Drift Joint at Floor	276
Option 3: CCW LiquiFiber	277
BVAB-7B – Option 3: Drift Joint at Floor	278
Application: Treatment with shelf angle installed.....	279
Option 1: CCW-705/705FR-A	279
BVAB-7C – Option 1: Drift Joint at Floor	280
Option 2: CCW LiquiFiber	281
BVAB-7C – Option 2: Drift Joint at Floor	282
BVAB-11K – Isometric Shelf Angle	282

INSTALLATION GUIDELINES

This application guide has been assembled to assist in the application of CCW Barriseal and is intended to offer guidance to the construction community. It is intended to be used in conjunction with current CCW published literature. Other acceptable methods of application that are not depicted in this guide may be incorporated during construction provided all applications follow proven and sound construction techniques and are approved by CCW.

Coordination

- Pre-construction meeting shall cover all decisions pertaining to design so that a continuous air/vapor barrier is achieved across the building envelope.
- Review submittals, surface preparation, installation procedures, special details, sequence of construction, responsibilities, mock-up requirements, inspection, testing and repair procedures.
- Mock-up shall establish procedures and workmanship that must be followed during installation.
- Review adjacent construction materials such as windows, doors, ducts, and other penetrations for conformance to manufacturer's application instructions.
- Sequence and schedule installation of flashing and sealant to prevent damage and water infiltration.

INSTALLATION GUIDELINES

Substrate

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Substrate systems and the structural performance thereof shall be engineered by others.
- Prevent the accumulation of water infiltration behind the substrate.
- CCW Barriseal is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.

Project/Site Conditions

- Do not proceed with application if substrate temperature is below 50°F.
- Maintain product temperature above 50°F during application.
- Do not apply CCW Barriseal and associated materials to damp or frozen surfaces.
- Do not apply in rain or if rain is expected during drying time.
- Limit exposure of CCW Barriseal and associated products to a maximum of 30 days.

INSTALLATION GUIDELINES

Delivery, Storage and Handling

- Deliver CCW materials in original unopened packages.
- Protect CCW materials during transportation, storage and installation to avoid physical damage.
- Store CCW materials in cool dry place protected from freezing, direct sunlight and extreme heat.
- Maintain product temperature at or above 50°F during application.

Application

- Protect surrounding areas and surfaces from damage and staining during application of CCW Barriseal.
- Apply CCW Barriseal and associated products in accordance with current CCW published literature. Do not roller apply CCW Barriseal-S and do not spray apply CCW Barriseal-R.
- Protect finished work at end of each day to prevent damage and moisture intrusion.
- Ensure a continuous air/vapor barrier is achieved across the building envelope.
- Promptly clean uncured CCW Barriseal from hands, tools, surfaces and spray equipment with water. Cured product is cleaned mechanically or by solvent.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

CCW Barriseal

Installation Instructions

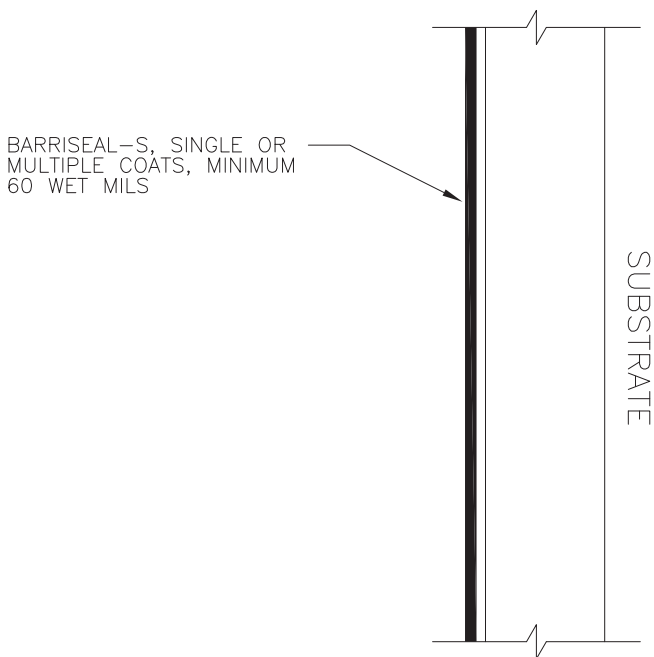
- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Do not roller apply CCW Barriseal-S or spray apply CCW Barriseal-R.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRISEAL

INSTALLATION INSTRUCTIONS

Application

BVAB-1A – Option 1: CCW Barriseal-S Spray Applied

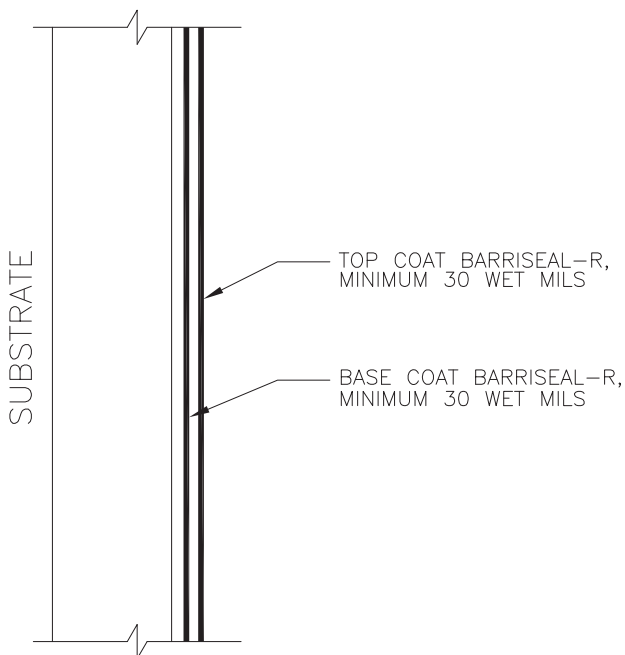


1. For spray application apply CCW Barriseal in a single or multiple coats to a minimum 60-wet mils.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-1A – Option 2: CCW Barriseal-R



1. For roller application apply base coat CCW Barriseal-R minimum 30-wet mils and allow to dry firm before subsequent coat.
2. Apply top coat CCW Barriseal-R minimum 30-wet mils.

INSTALLATION INSTRUCTIONS

Sheathing Joints

Installation Instructions

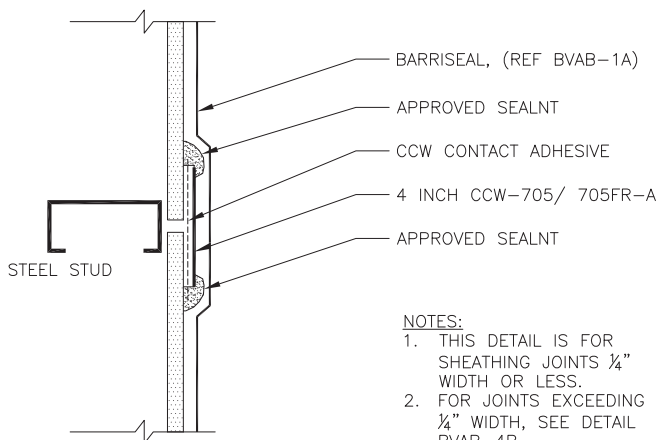
- Ensure sheathing is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRISEAL

INSTALLATION INSTRUCTIONS

Application

BVAB-4A – Option 1: CCW Barritape

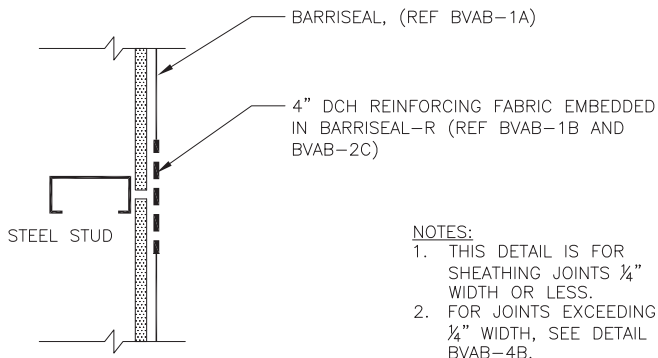


1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702WB, CCW-715, CAV-GRIP and TRAVEL-TACK) to all surfaces accepting CCW Barritape extending the material a minimum of 1-inch beyond the edge of the 4-inch Barritape. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW Barritape is not installed on the same day.
2. Application of minimum 4-inch CCW-Barritape may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-Barritape to desired length and apply. Firmly roll the Barritape with hand roller to strengthen adhesion.
4. Encapsulate the exposed edge of CCW Barritape with an Approved Sealant and allow the sealant to cure prior to application of CCW Barriseal.
5. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-4A – Option 2: DCH Reinforcing Fabric

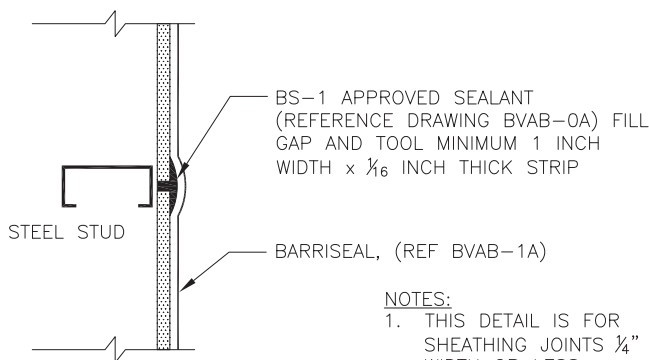


1. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the sheathing joint area extending minimum 3-inches on either side of the joint.
2. Place a minimum 4-inch wide DCH Reinforcing Fabric into the wet CCW Barriseal.
3. Apply additional CCW Barriseal (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with CCW Barriseal the same day of installation. When overlapping ensure DCH Reinforcing Fabric is installed over wet CCW Barriseal.
4. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-4A – Option 3: Approved Sealant



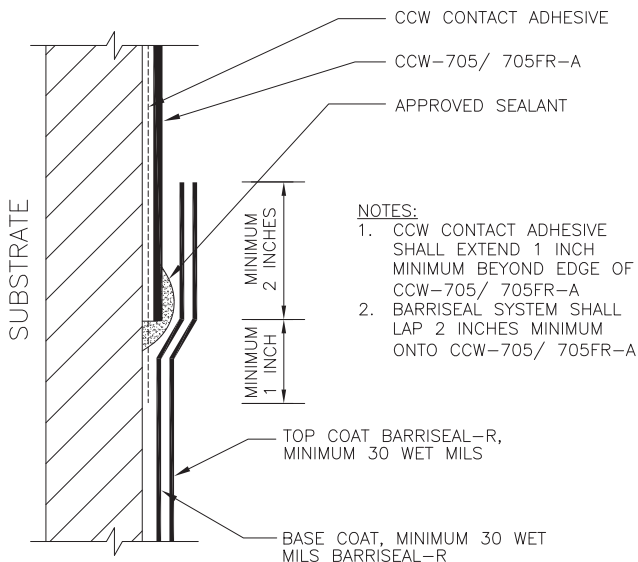
NOTES:

1. THIS DETAIL IS FOR SHEATHING JOINTS $\frac{1}{4}$ " WIDTH OR LESS.
 2. FOR JOINTS EXCEEDING $\frac{1}{4}$ " WIDTH, SEE DETAIL BVAB-4B.
1. Apply approved sealant (reference Group BS-1 on detail BVAB-0A) into sheathing joints $\frac{1}{4}$ -inch or less.
 2. Tool sealant a minimum of 1-inch in width by $\frac{1}{16}$ -inch thick over sheathing joint.
 3. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-2A – Option 1: CCW Barriseal-R

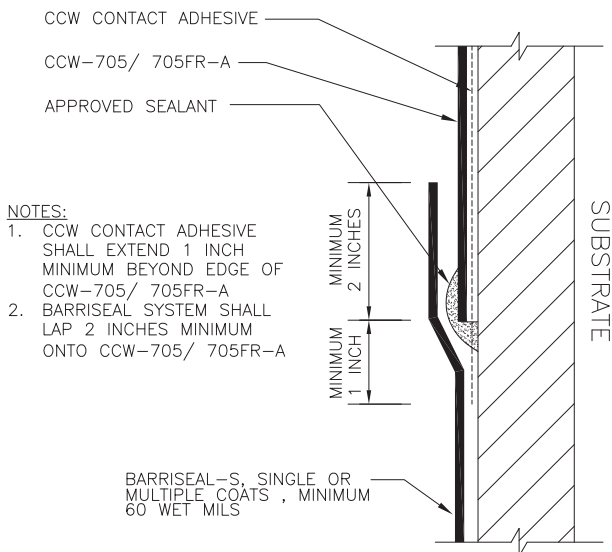


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings, and CCW Barritape must be encapsulated by an Approved Sealant prior to applying Barriseal-R and Barriseal-S.
2. This occurs both under/over Barriseal-R and Barriseal-S.
3. Please reference corresponding details Barriseal, BVAB 2A-2B, options for each specific condition.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-2A – Option 2: CCW Barriseal-S

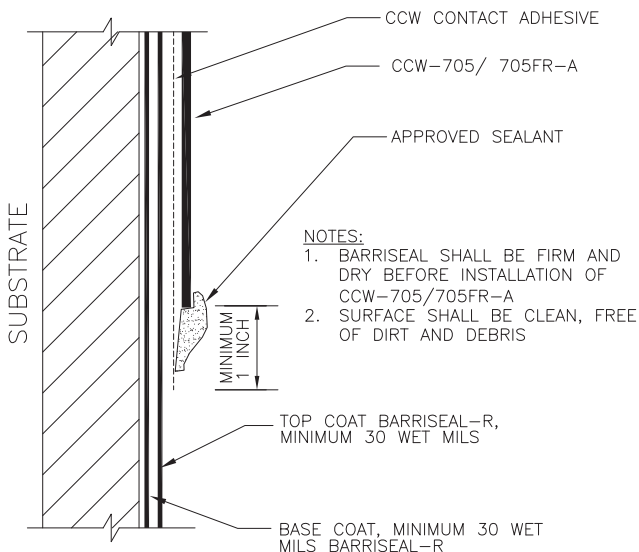


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings, and CCW Barritape must be encapsulated by an Approved Sealant prior to applying Barriseal-R and Barriseal-S.
2. This occurs both under/over Barriseal-R and Barriseal-S.
3. Please reference corresponding details Barriseal, BVAB 2A-2B, options for each specific condition.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-2A – Option 1: CCW-705/705FR-A Over Barriseal-R

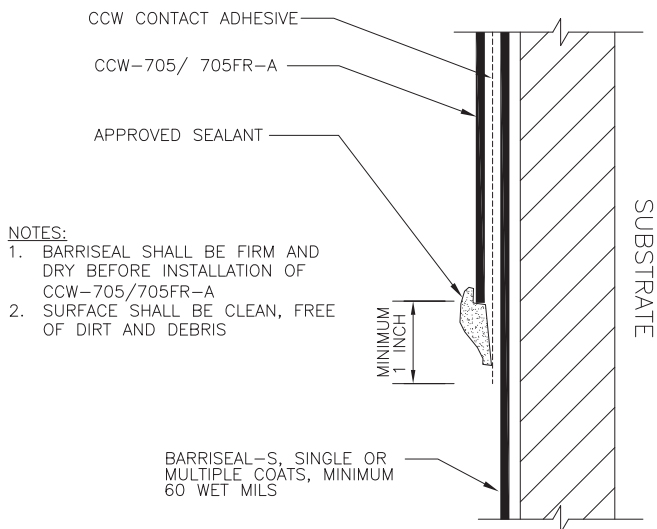


1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings, and CCW Barritape must be encapsulated by an Approved Sealant prior to applying Barriseal-R and Barriseal-S.
2. This occurs both under/over Barriseal-R and Barriseal-S.
3. Please reference corresponding details Barriseal, BVAB 2A-2B, options for each specific condition.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-2A – Option 1: CCW-705/705FR-A Over Barriseal-S



1. All exposed edges of CCW 705FR-A, CCW 705, CCW Aluma-Grip Flashings, and CCW Barritape must be encapsulated by an Approved Sealant prior to applying Barriseal-R and Barriseal-S.
2. This occurs both under/over Barriseal-R and Barriseal-S.
3. Please reference corresponding details Barriseal, BVAB 2A-2B, options for each specific condition.

INSTALLATION INSTRUCTIONS

Inside / Outside Corners

Installation Instructions

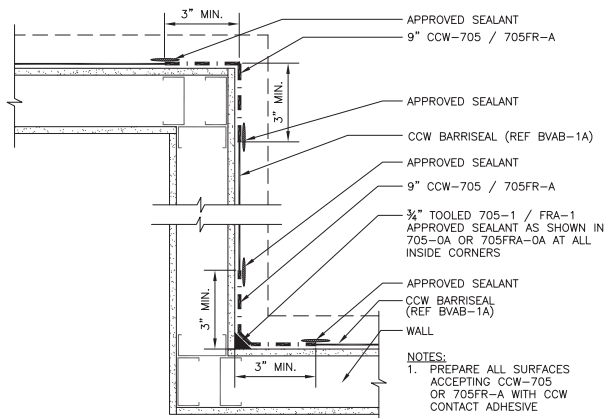
- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

BARRISEAL

INSTALLATION INSTRUCTIONS

Application

BVAB-15A – Option 1: CCW-705/705FR-A

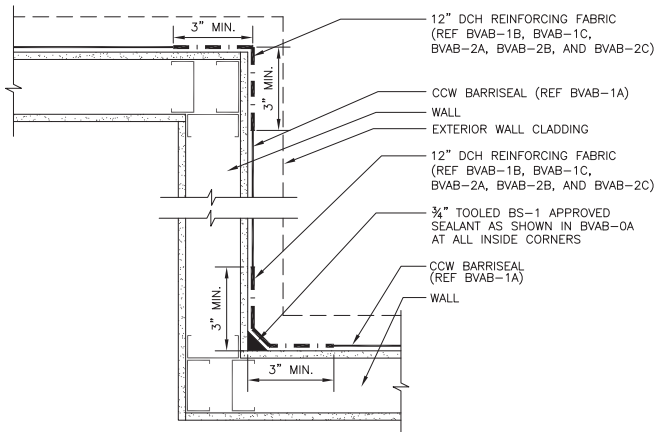


1. Fill gaps exceeding 1/4-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail CCW-705FR-A-0A). To facilitate installation of CCW-705FR-A an optional 1/2-inch bead of approved sealant applied at all inside corners and horizontal to vertical transitions is recommended.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of minimum 9-inch CCW-705/705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/705FR-A is not installed on the same day.
3. Application of minimum 9-inch CCW-705/705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto each side of the corner. Firmly roll the CCW-705/705FR-A with hand roller to strengthen adhesion.
5. Overlap CCW-705/705FR-A a minimum of 3-inches horizontally and vertically.
6. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-15A – Option 2: DCH Reinforcing Fabric

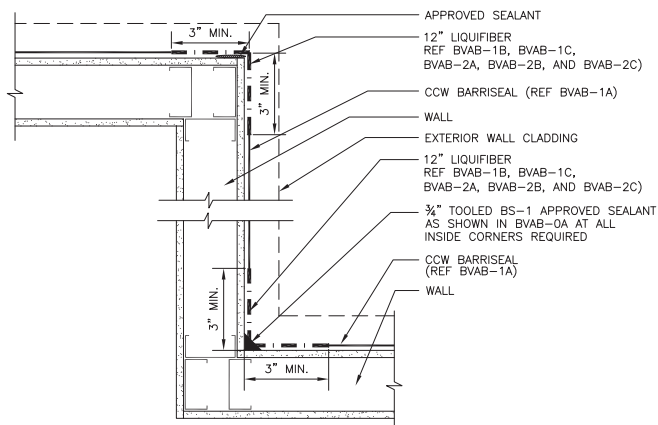


1. Fill sheathing joint gaps exceeding 1/4-inch with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the corner areas extending minimum 7-inches on either side of the corner.
3. Place 12-inch wide DCH Reinforcing Fabric into the wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with CCW Barriseal the same day of installation.
5. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet CCW Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

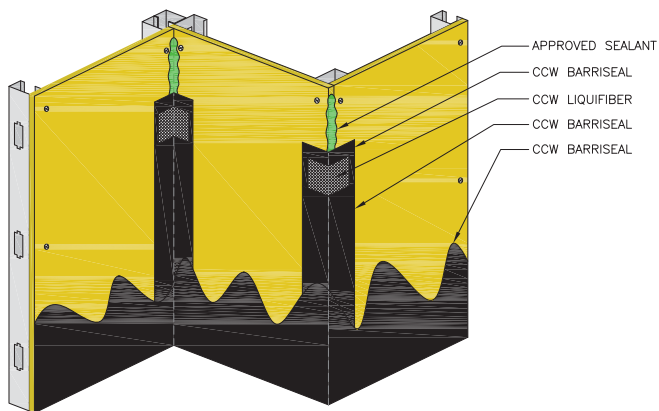
BVAB-15A – Option 3: CCW LiquiFiber



1. Fill all sheathing joint gaps with approved sealant (reference Group BS-1 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the corner area extending minimum 7-inches on either side of the corner.
3. Place 12-inch wide CCW LiquiFiber into the wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet CCW Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.

INSTALLATION INSTRUCTIONS

BVAB-15D – Isometric Corner Reinforcements

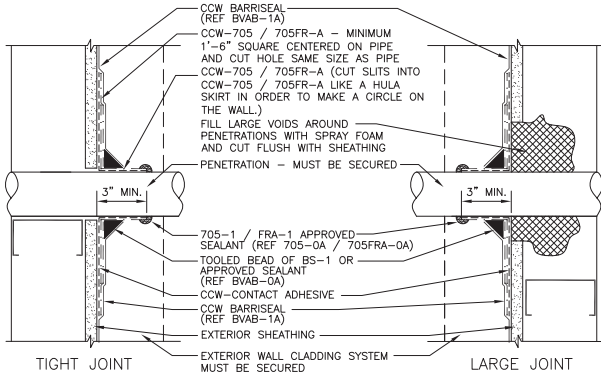


INSTALLATION INSTRUCTIONS

Pipe and Mechanical Penetration

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- All loose penetrations must be secured.
- Spray foam may be used around electrical fixtures or conduit and plumbing penetrations to form a back dam.
- Closed-cell backer rod and sealant may be used as a back dam and to help achieve an air- and water-tight seal.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

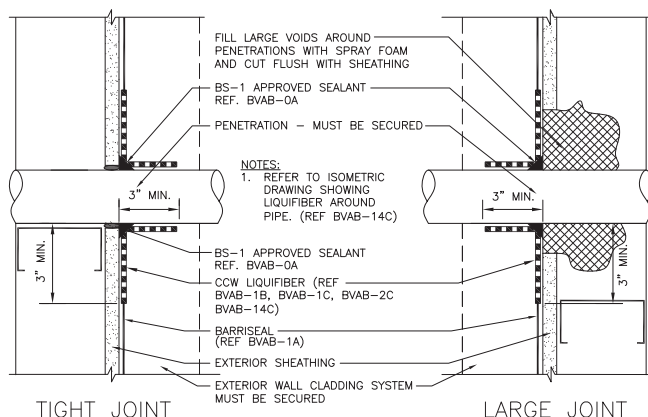
INSTALLATION INSTRUCTIONS**Application****BVAB-14A – Option 1: CCW-705/705FR****NOTES:**

1. ALL CUT EDGES OF CCW-705 OR 705FR-A MUST BE SEALED WITH APPROVED SEALANT.

1. Fill gaps exceeding $\frac{1}{4}$ -inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail FR-A-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by sealant application.
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of CCW-705/705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/705FR-A is not installed on the same day.
3. Application of CCW-705/705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/705FR-A to desired length and apply around the penetration. Firmly roll the CCW-705/705FR-A with hand roller to strengthen adhesion.
5. Apply approved sealant at CCW-705/705FR-A cut edges around the penetration and on the face of the wall prior to installation of CCW Barriseal-S and/or Barriseal-R. (Ref. Group 705-1 and Group 705-2 on detail 705-0A or 705FR-A Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A)
6. Apply CCW Barriseal in accordance with current CCW published literature.

INSTALLATION INSTRUCTIONS

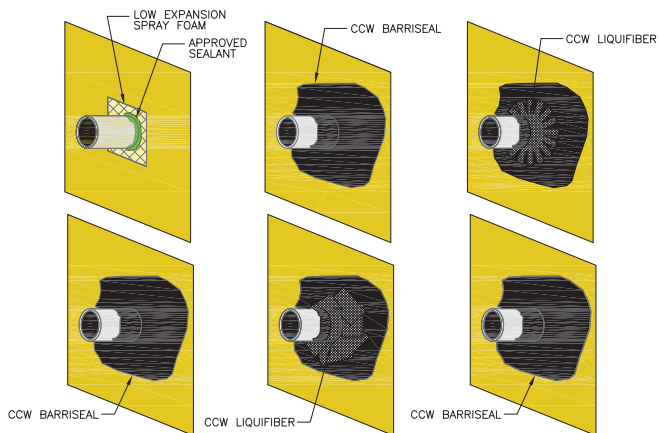
BVAB-14B – Option 2: CCW LiquiFiber



1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A). -OR- For rough gaps apply low expansion spray foam around the penetration and shave the cured foam flush with the sheathing followed by sealant application.
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area.
3. Place CCW LiquiFiber into the wet Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Apply additional CCW LiquiFiber into wet CCW Barriseal to cover CCW LiquiFiber cuts made to treat the penetration.
6. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
7. Apply CCW Barriseal in accordance with current CCW published literature.

INSTALLATION INSTRUCTIONS

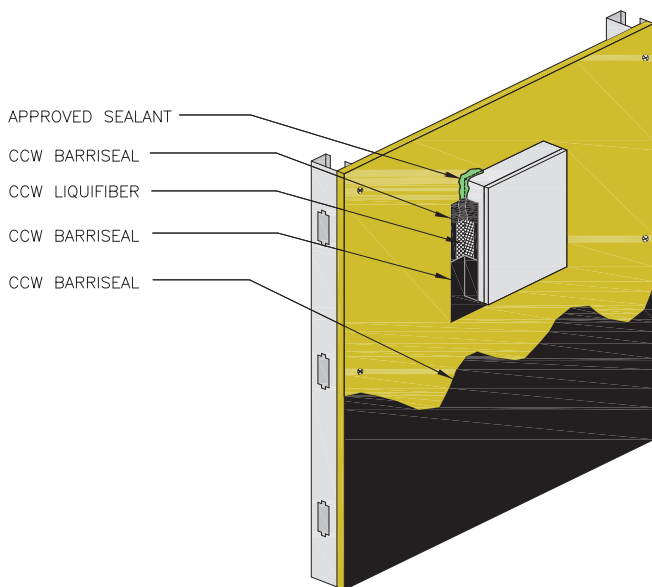
BVAB-14C – Installation Sequence LiquiFiber at Pipe Penetration



BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-14D – Electrical Box Penetration Detail



INSTALLATION INSTRUCTIONS

Brick Ties

Installation Instructions

- Ensure all surfaces are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

Application

- Apply CCW Barriseal over the substrate in accordance with current CCW published literature.
- Install brick ties in accordance to brick tie manufacturer instructions ensuring fasteners are straight, not over driven and a compression seal is achieved. All holes from mis-driven fasteners must be sealed. Fill all voids around CMU brick ties with mortar or sealant.
- Embedded brick ties shall be treated with CCW Barriseal so that an air tight seal is achieved.

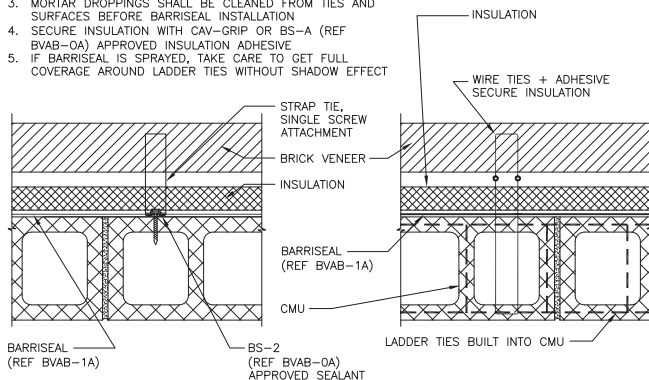
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-6B – Brick-Ties – CMU

NOTES:

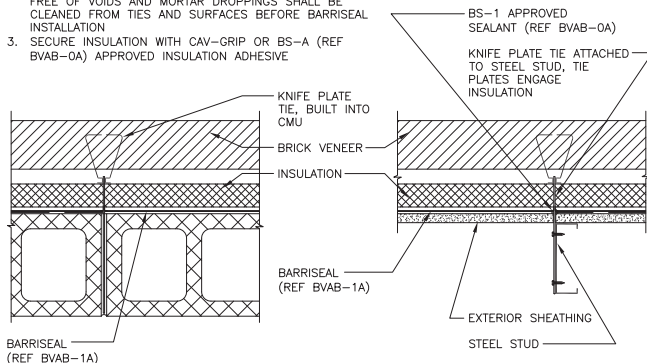
1. INSTALL STRAP TIES AFTER BARRISEAL
2. MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS
3. MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE BARRISEAL INSTALLATION
4. SECURE INSULATION WITH CAV-GRIP OR BS-A (REF BVAB-0A) APPROVED INSULATION ADHESIVE
5. IF BARRISEAL IS SPRAYED, TAKE CARE TO GET FULL COVERAGE AROUND LADDER TIES WITHOUT SHADOW EFFECT



BVAB-6C – Knife Plate Type Ties CMU and Sheathing

NOTES:

1. TIES ARE IN PLACE BEFORE BARRISEAL INSTALLATION
2. ON CMU – MORTAR JOINTS SHALL BE STRUCK FLUSH, FREE OF VOIDS AND MORTAR DROPPINGS SHALL BE CLEANED FROM TIES AND SURFACES BEFORE BARRISEAL INSTALLATION
3. SECURE INSULATION WITH CAV-GRIP OR BS-A (REF BVAB-0A) APPROVED INSULATION ADHESIVE

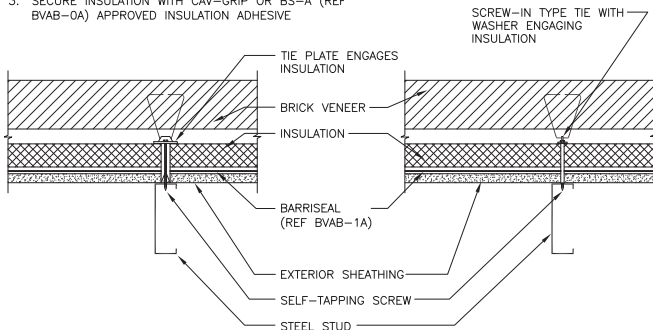


INSTALLATION INSTRUCTIONS

BVAB-6D – Brick Ties, Attached to Stud Through Insulation and Sheathing

NOTES:

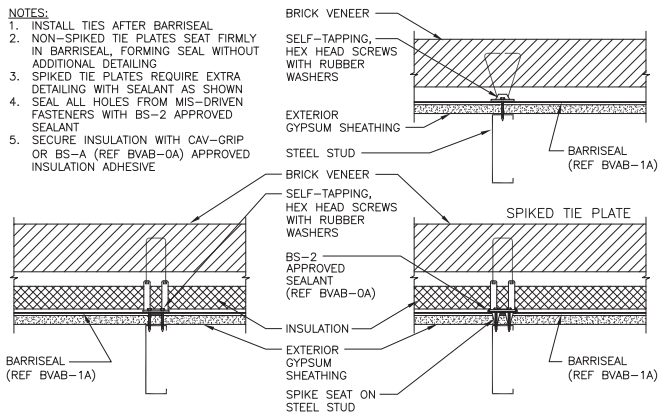
1. DRIVE FASTENERS STRAIGHT, DO NOT OVER-DRIVE
2. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH APPROVED SEALANT.
3. SECURE INSULATION WITH CAV-GRIP OR BS-A (REF BVAB-0A) APPROVED INSULATION ADHESIVE



BVAB-6E – 2-Screw Brick Ties, Attachment to Stud Through Sheathing

NOTES:

1. INSTALL TIES AFTER BARRISEAL
2. NON-SPIKED TIE PLATES SEAT FIRMLY IN BARRISEAL, FORMING SEAL WITHOUT ADDITIONAL DETAILING
3. SPIKED TIE PLATES REQUIRE EXTRA DETAILING WITH SEALANT AS SHOWN
4. SEAL ALL HOLES FROM MIS-DRIVEN FASTENERS WITH BS-2 APPROVED SEALANT
5. SECURE INSULATION WITH CAV-GRIP OR BS-A (REF BVAB-0A) APPROVED INSULATION ADHESIVE



INSTALLATION INSTRUCTIONS

Expansion Joint

Installation Instructions

- Ensure all substrates are installed in accordance with manufacturer specifications. For sheathing all fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Allowable joint movement varies with geometry and is per the design professional.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

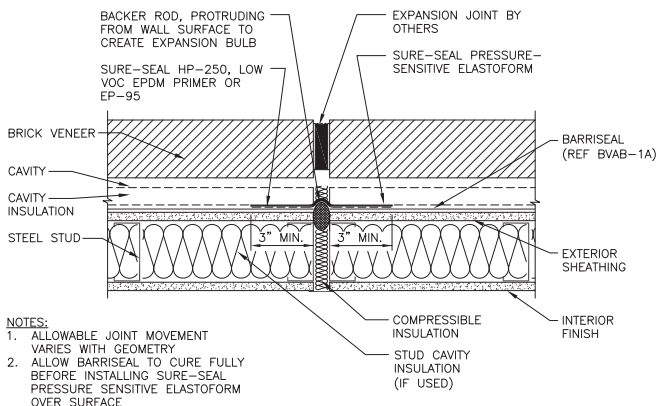
Application:

Sure-Seal Pressure-Sensitive Elastoform Flashing

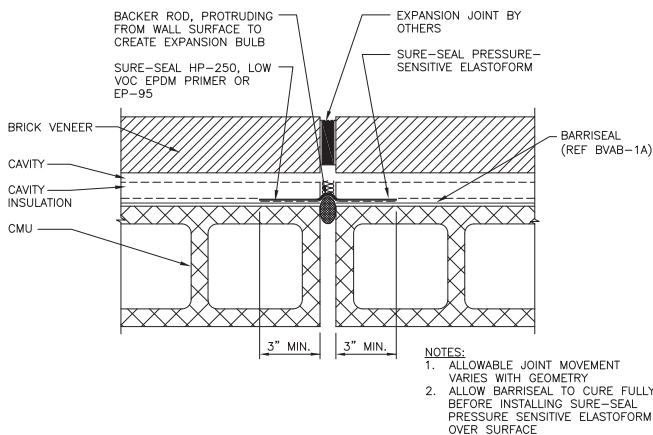
- Apply CCW Barriseal over the substrate in accordance with current CCW published literature and allow to fully cure.
- Install backer rod into the joint protruding from the wall to create an expansion bulb.
- Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
- Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
- Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
- Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
- Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.

INSTALLATION INSTRUCTIONS

BVAB-3A – Gypsum Sheathing Vertical Expansion Joint



BVAB-3B – CMU Expansion Joint



INSTALLATION INSTRUCTIONS

Window Rough Opening

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Provide continuous air seal around interior perimeter of window. Contact window manufacturer for specific installation instructions.
- Ensure continuity of air/vapor barrier is maintained at window penetration.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

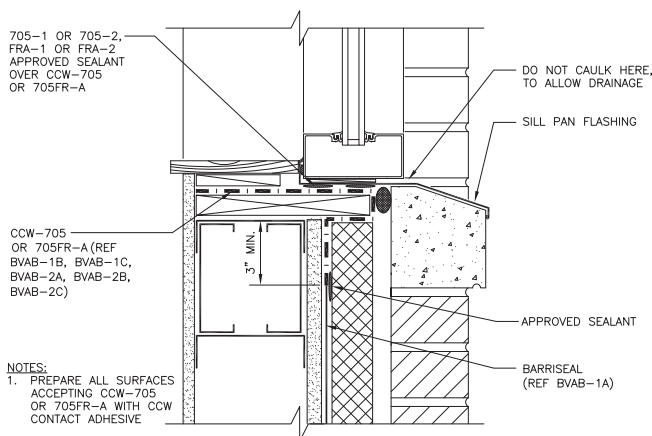
Option 1: CCW-705/705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705/705FR-A Strips. Contact adhesive must be covered the same day of application. Re-Apply contact adhesive if CCW-705/705FR-A is not installed on the same day.
3. Application of CCW-705/CCW-705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/CCW-705FR-A Strips to desired length and apply in rough window sill 1st, jamb 2nd, and window head last. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
5. Treat sill/jamb corners with an additional piece of CCW-705/CCW-705FR-A extending onto face of adjoining membrane minimum of 2-inches.
6. Apply CCW Barriseal in accordance with current CCW published literature.
7. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705/CCW-705FR-A at the fasteners and seal with approved sealant.

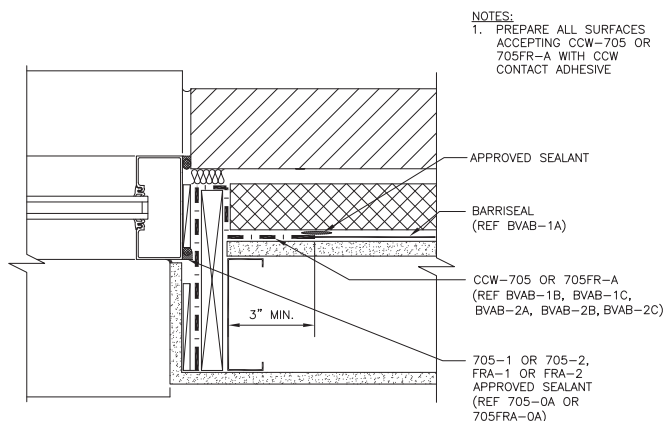
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-5B.1 – Option 1: Punched Window – Sill (CCW 705/705FR-A)



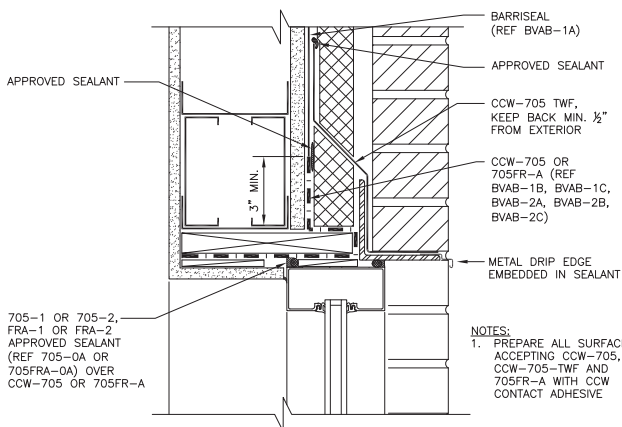
BVAB-5B.2 – Option 1: Punched Window – Jamb (CCW 705/705FR-A)



BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-5B.3 – Option 1: Punched Window – Head (CCW 705/705FR-A)



BARRISEAL

INSTALLATION INSTRUCTIONS

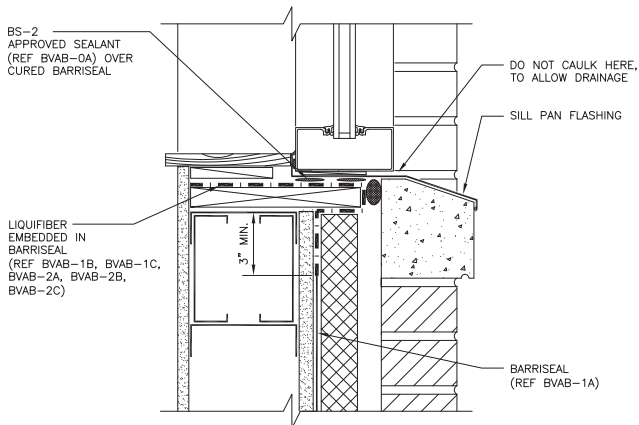
Option 2: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) in rough window opening and onto face extending the material a minimum of 1-inch beyond the edge of CCW LiquiFiber.
3. Place CCW LiquiFiber into the wet CCW Barriseal at window sill 1st, jamb 2nd, and window head last.
4. Apply additional CCW Barriseal (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Treat sill/jamb corners with an additional piece of CCW LiquiFiber and Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.

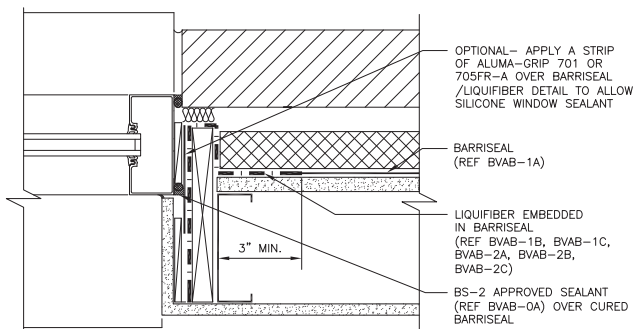
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-5B.1 – Option 2: Punched Window – Sill (Liquifiber)



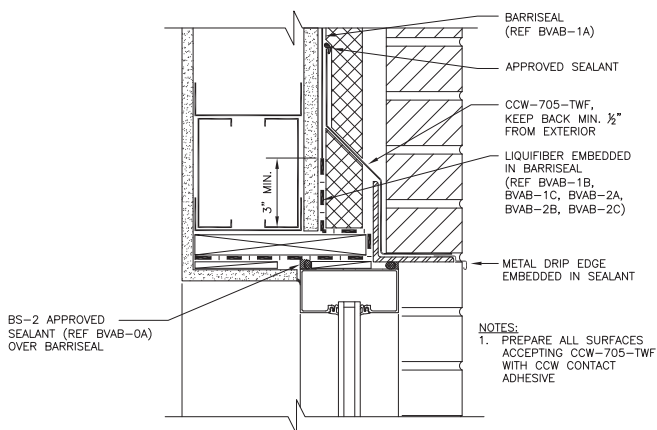
BVAB-5B.2 – Option 2: Punched Window – Jamb (Liquifiber)



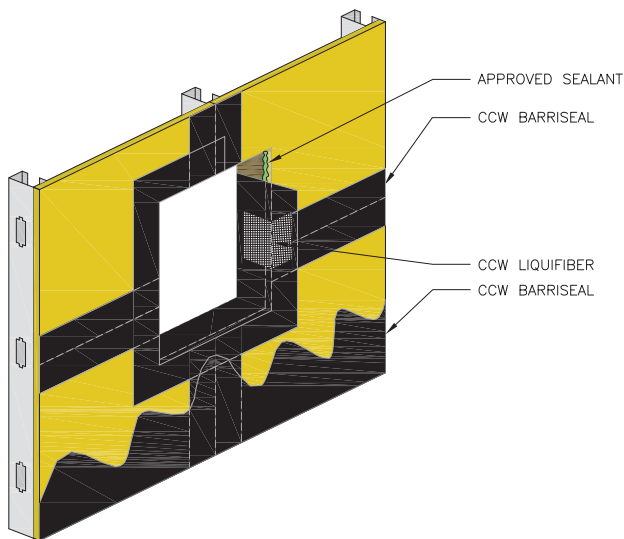
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-5B.3 – Option 2: Punched Window – Head (Liquifiber)



BVAB-17 – Isometric Rough Opening Sill, Jamb and Head



INSTALLATION INSTRUCTIONS

Parapet

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at wall to roof transition.
- Verify blocking is installed and secured per design.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

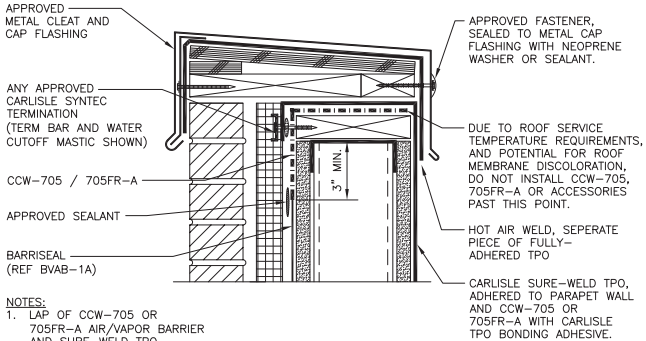
Application

Option 1: CCW-705/705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group 705-1 and Group 705-2 on detail 705-0A or Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) over the joints extending the material a minimum of 1-inch beyond the edge of the CCW-705FR-A. Contact adhesive must be covered the same day of application. Reapply contact adhesive if CCW-705/CCW-705FR-A is not installed on the same day.
3. Application CCW-705/CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
Cut CCW-705/CCW-705FR-A to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
4. Overlap CCW-705/CCW-705FR-A a minimum of 3-inches horizontally and vertically.
5. CCW Barriseal, CCW 705, and/or CCW 705FR-A shall bear a minimum of 6-inches onto adjacent roofing membrane system and vice versa.
6. Encapsulate the exposed edge of CCW-705/705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barriseal.
7. Apply CCW Barriseal in accordance with current CCW published literature.
8. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

INSTALLATION INSTRUCTIONS

BVAB-11C – Option 1: Tie-In to TPO Roof at Parapet (CCW 705/705FR-A)

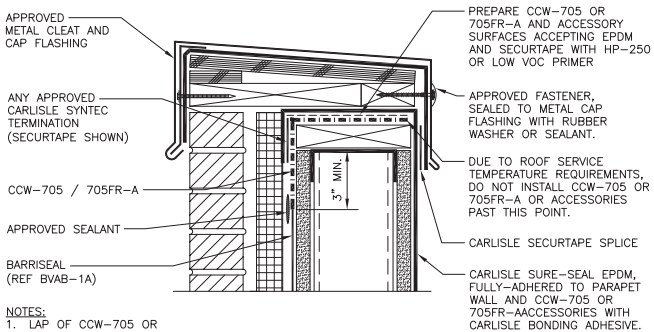


NOTES:

1. LAP OF CCW-705 OR 705FR-A AIR/VAPOR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTec LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-WELD TPO ROOFING

BVAB-11E – Option 1: Tie-In to EPDM Roof at Parapet (CCW 705/705FR-A)



NOTES:

1. LAP OF CCW-705 OR 705FR-A AIR/VAPOR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTec LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-SEAL EPDM ROOF

BARRISEAL

INSTALLATION INSTRUCTIONS

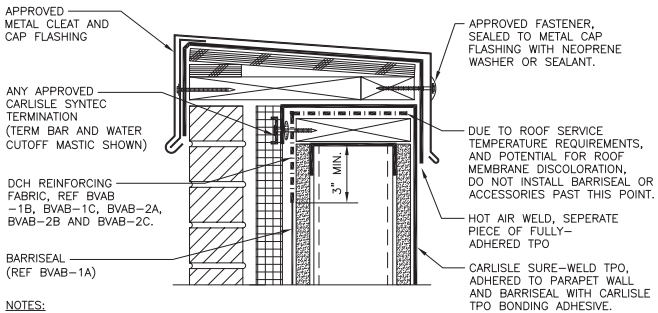
Option 2: DCH Reinforcing Fabric

1. Fill sheathing joint gaps exceeding ¼-inch with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the DCH Reinforcing Fabric.
3. Place the DCH Reinforcing Fabric into the wet CCW Barriseal ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional CCW Barriseal (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with CCW Barriseal the same day of installation.
5. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet CCW Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-11C – Option 2: Tie-In to TPO Roof at Parapet (DCH Fabric)

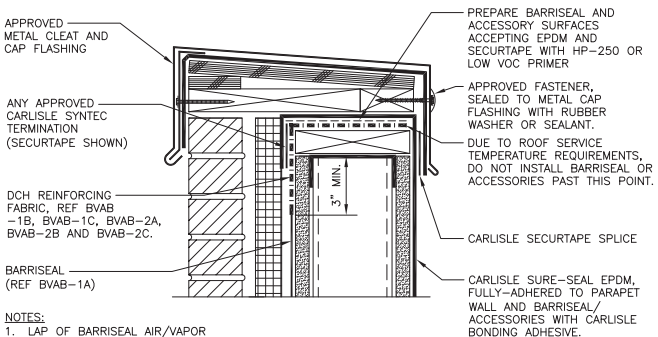


NOTES:

1. LAP OF BARRISEAL AIR/VAPOR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-WELD TPO ROOFING

BVAB-11E – Option 2: Tie-In to EPDM Roof at Parapet (DCH Fabric)



NOTES:

1. LAP OF BARRISEAL AIR/VAPOR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-SEAL EPDM ROOF

BARRISEAL

INSTALLATION INSTRUCTIONS

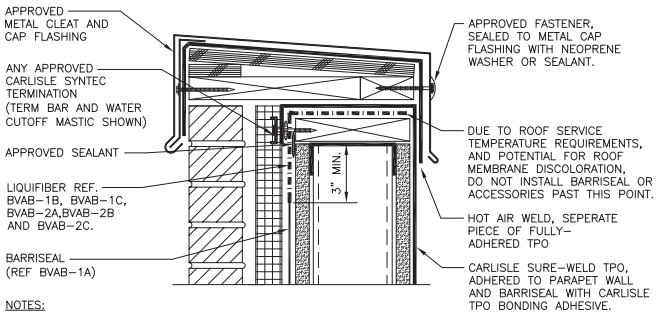
Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending the material a minimum of 1-inch beyond the edge of the CCW LiquiFiber.
3. Place the CCW LiquiFiber into the wet CCW Barriseal ensuring a minimum 3-inch bearing onto the substrate.
4. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Overlap CCW LiquiFiber a minimum of 3-inches horizontally and vertically. When overlapping ensure CCW LiquiFiber is installed over wet CCW Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.
7. Verify roofing materials are properly installed at tie-in locations so that a continuous air barrier is achieved.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-11C – Option 3: Tie-In to TPO Roof at Parapet (Liquifiber)

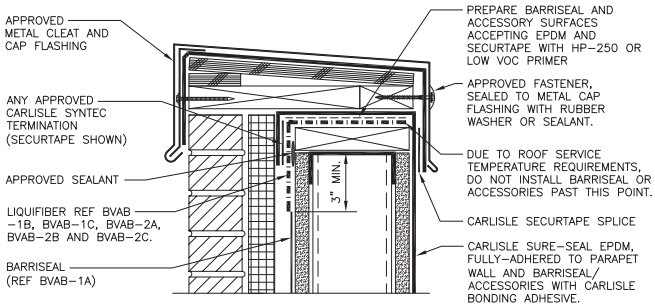


NOTES:

1. LAP OF BARRISEAL AIR/VAPOR BARRIER AND SURE-WELD TPO ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-WELD TPO ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-WELD TPO ROOFING

BVAB-11E – Option 3: Tie-In to EPDM Roof at Parapet (Liquifiber)



NOTES:

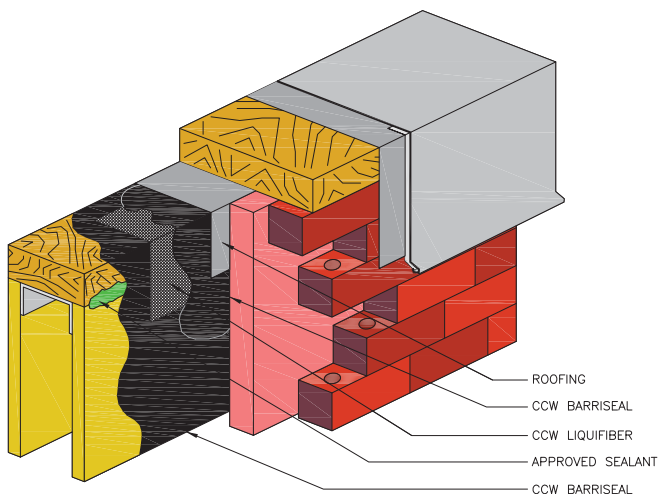
1. LAP OF BARRISEAL AIR/VAPOR BARRIER AND SURE-SEAL EPDM ROOFING SYSTEMS SHALL BE 6 INCHES MINIMUM.
2. CONSULT CARLISLE-SYNTEC LITERATURE AND DETAILS FOR SURE-SEAL EPDM ROOFING INSTALLATION.

1st: BARRISEAL AIR/VAPOR BARRIER
2nd: SURE-SEAL EPDM ROOF

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-11J – Isometric Parapet Edge Flashing



INSTALLATION INSTRUCTIONS

Foundation

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained at foundation to wall transition.
- Verify waterproofing has been completed and all materials are compatible at tie-in locations.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Option 1: CCW-705/705FR-A

1. Fill gaps exceeding ¼-inch with approved sealant (reference Group FR-A-1 and Group FR-A-2 on detail 705FR-A-0A).
2. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending minimum of 1-inch beyond the edge of CCW-705/705FR-A Strips onto the compatible waterproofing membrane.
3. Application of CCW-705/705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
4. Cut CCW-705/705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto the substrate. Firmly roll the CCW-705/705FR-A with hand roller to strengthen adhesion.
5. Encapsulate the exposed edge of CCW-705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.
7. Install CCW-705/705FR-A through wall flashing, per design.

INSTALLATION INSTRUCTIONS

BVAB-16A – Option 1: Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING
CCW-705, 705FR-A,
CCW-705 TWF OR CCW
MIRADRI 860/861 SHALL BE
PREPARED WITH CCW CONTACT
ADHESIVE

APPROVED SEALANT

9" CCW-705/705FR-A
(REF BVAB-1A,
BVAB-1B, BVAB-2B,
BVAB-2C)

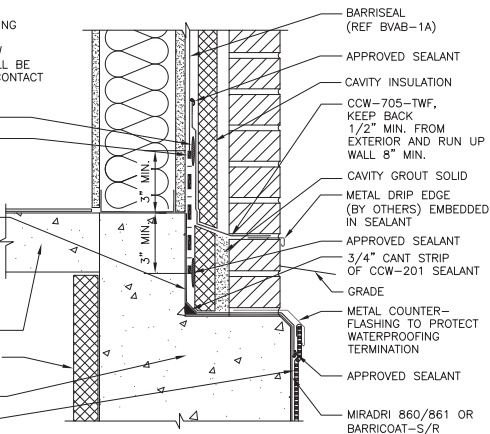
MIRADRI 860/861 STRIP.
LAP 6" MINIMUM ONTO
BELOW GRADE
WATERPROOFING SYSTEM
AND TERMINATE WITH
MASTIC. PEEL BACK
DRAINAGE COMPOSITE FOR
ACCESS IF NECESSARY

SLAB

BELOW GRADE INSULATION.
R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN
DRAINAGE COMPOSITE



BARRISEAL
(REF BVAB-1A)

APPROVED SEALANT

CAVITY INSULATION

CCW-705-TWF,
KEEP BACK
1/2" MIN. FROM
EXTERIOR AND RUN UP
WALL 8" MIN.

CAVITY GROUT SOLID

METAL DRIP EDGE
(BY OTHERS) EMBEDDED
IN SEALANT

APPROVED SEALANT

3/4" CANT STRIP
OF CCW-201 SEALANT

GRADE

METAL COUNTER-
FLASHING TO PROTECT
WATERPROOFING
TERMINATION

APPROVED SEALANT

MIRADRI 860/861 OR
BARRICOAT-S/R

INSTALLATION INSTRUCTIONS

Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps $\frac{1}{4}$ " or greater with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the compatible waterproofing membrane.
3. Place DCH Reinforcing Fabric into the wet CCW Barriseal. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with CCW Barriseal the same day of installation.
5. Apply CCW Barriseal in accordance with current CCW published literature.
6. Install CCW-705-TWF through wall flashing, per design.

INSTALLATION INSTRUCTIONS

BVAB-16A – Option 2: Foundation Tie-In

NOTES:

1. ALL SURFACES ACCEPTING CCW-705 TWF OR CCW MIRADRI 860/861 SHALL BE PREPARED WITH CCW CONTACT ADHESIVE

12" DCH REINFORCING FABRIC EMBEDDED IN BARRISEAL. (REF BVAB-1A, BVAB-1B, BVAB-2B, BVAB-2C)

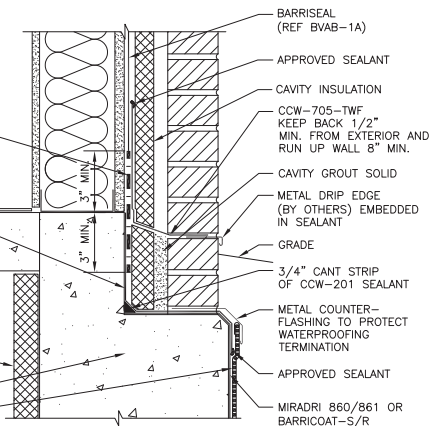
MIRADRI 860/861 STRIP, LAP 6" MINIMUM ONTO BELOW GRADE WATERPROOFING SYSTEM AND TERMINATE WITH MASTIC. PEEL BACK DRAINAGE COMPOSITE FOR ACCESS IF NECESSARY

SLAB

BELOW GRADE INSULATION, R-VALUE TO CODE

FOUNDATION

CCW MIRADRAIN DRAINAGE COMPOSITE



BARRISEAL

INSTALLATION INSTRUCTIONS

Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the LiquiFiber to embed. Ensure LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Apply CCW Barriseal in accordance with current CCW published literature.
6. Install CCW-705-TWF through wall flashing, per design.

INSTALLATION INSTRUCTIONS

Shelf Angle Through-Wall Flashing

Installation Instructions

- Ensure substrate is installed in accordance with manufacturer specifications. All fasteners shall be flush with the exterior face of sheathing. All masonry joints shall be struck flush with the CMU.
- Substrate shall be dry, clean, sound, and free of dust, dirt, residue and all other surface contaminants.
- Verify substrate is flat, free of fins and planar irregularities.
- Ensure continuity of air/vapor barrier is maintained.
- Unsatisfactory conditions shall be reported and corrected prior to application of CCW materials.
- Verify all materials are installed in accordance with current CCW published literature and local code requirements.

INSTALLATION INSTRUCTIONS

Application

Treatment prior to shelf angle installation

Option 1: CCW-705/705FR-A

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705/705FR-A Strips.
2. Application of CCW-705/705FR-A Strips may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705/705FR-A Strips to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the CCW-705/705FR-A with hand roller to strengthen adhesion.
4. Encapsulate the exposed edge of CCW-705/705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barriseal.
5. Apply CCW Barriseal in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
10. Install backing, shelf angle and insulation.
11. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through-wall flashing may also be used.

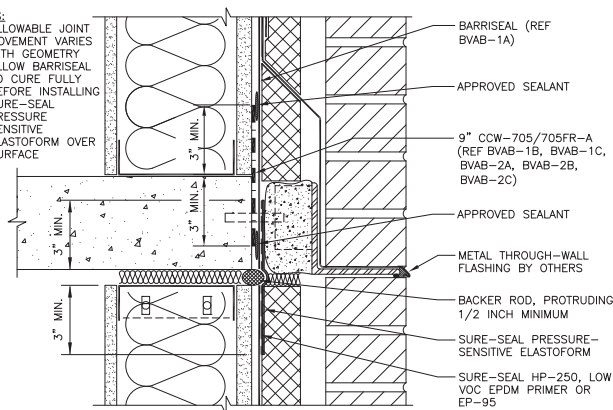
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-7B – Option 1: Drift Joint at Floor

NOTES:

1. ALLOWABLE JOINT MOVEMENT VARIES WITH GEOMETRY
2. ALLOW BARRISEAL TO CURE FULLY BEFORE INSTALLING SURE-SEAL PRESSURE SENSITIVE ELASTOFORM OVER SURFACE



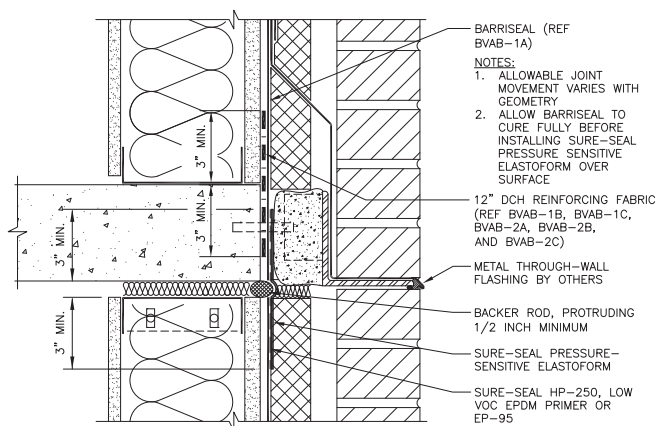
INSTALLATION INSTRUCTIONS

Option 2: DCH Reinforcing Fabric

1. Fill all sheathing joint gaps exceeding ¼" with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of DCH Reinforcing Fabric onto the sheathing and concrete slab.
3. Place DCH Reinforcing Fabric into the wet CCW Barriseal. Overlap DCH Reinforcing Fabric a minimum of 3-inches horizontally and vertically. When overlapping ensure DCH Reinforcing Fabric is installed over wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the DCH Reinforcing Fabric to embed. Ensure DCH Reinforcing Fabric is fully embedded with CCW Barriseal the same day of installation.
5. Apply CCW Barriseal in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

INSTALLATION INSTRUCTIONS

BVAB-7B – Option 2: Drift Joint at Floor



INSTALLATION INSTRUCTIONS

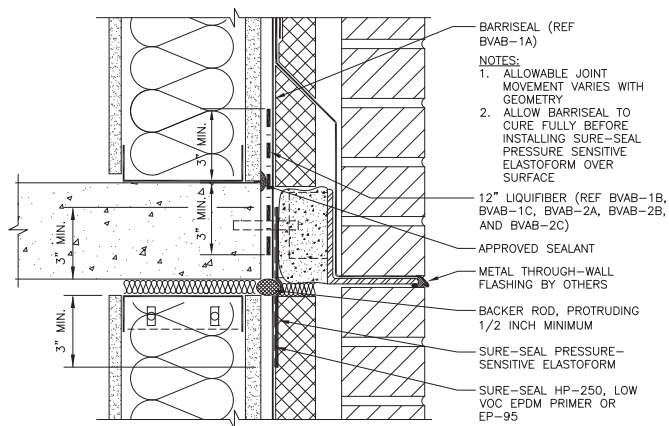
Option 3: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane.
3. Place CCW LiquiFiber into the wet CCW Barriseal.
4. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Apply CCW Barriseal in accordance with current CCW published literature.
6. Apply Sure-Seal HP-250 or Low-VOC EPDM Primer extending the material minimum 1-inch beyond the edge of the Sure-Seal Pressure-Sensitive Elastoform.
7. Application of Sure-Seal Pressure-Sensitive Elastoform may proceed when CCW contact adhesive can no longer transfer to touch.
8. Cut Sure-Seal Pressure-Sensitive Elastoform to desired length and apply ensuring a minimum 3-inch bearing onto each side of the joint. Firmly roll the Sure-Seal Pressure-Sensitive Elastoform with hand roller to strengthen adhesion.
9. Sure-Seal HP-250 or Low-VOC EPDM Primer application is required at all splices.
10. Overlap Sure-Seal Pressure-Sensitive Elastoform a minimum of 3-inches horizontally and vertically.
11. Install backing, shelf angle and insulation.
12. Install through wall flashing, per design over steel angle star cutting (as required) the CCW-705-TWF at the fasteners and seal with approved sealant. Metal through wall flashing may also be used.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-7B – Option 3: Drift Joint at Floor



INSTALLATION INSTRUCTIONS

Treatment with shelf angle installed

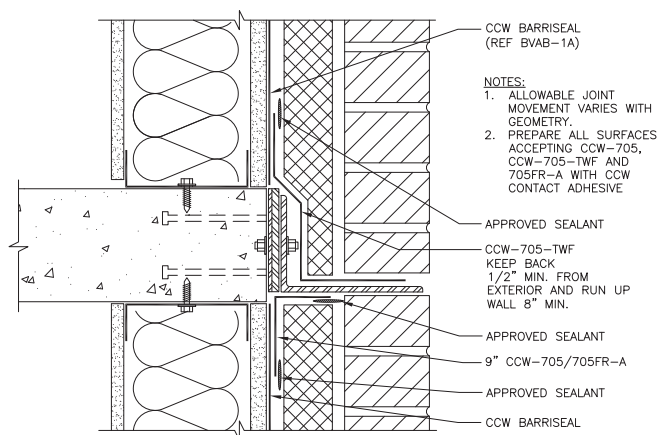
Option 1: CCW-705/705FR-A

1. Apply CCW contact adhesive (CCW-702, CCW-702LV, CCW-702 WB, CCW-715, CAV-GRIP, or TRAVEL-TACK) extending the material a minimum of 1-inch beyond the edge of CCW-705/CCW-705FR-A Strips over the top and underside of steel angle.
2. Application of CCW-705/CCW-705FR-A may proceed when CCW contact adhesive can no longer transfer to touch.
3. Cut CCW-705/CCW-705FR-A to desired length and apply a minimum of 3-inches above the steel, bringing the CCW-705/CCW-705FR-A down so that it terminates ½-inch from brick face. Apply CCW-705/CCW-705FR-A a minimum of 3-inches on the underside of steel angle and sheathing. Firmly roll the CCW-705/CCW-705FR-A with hand roller to strengthen adhesion.
4. Overlap CCW-705/CCW-705FR-A horizontally a minimum of 3-inches.
5. Encapsulate the exposed edge of CCW-705/705FR-A with an Approved Sealant and allow the sealant to cure prior to application of Barriseal.
6. Apply CCW Barriseal in accordance with current CCW published literature.

BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-7C – Option 1: Shelf-Angle at Floor



INSTALLATION INSTRUCTIONS

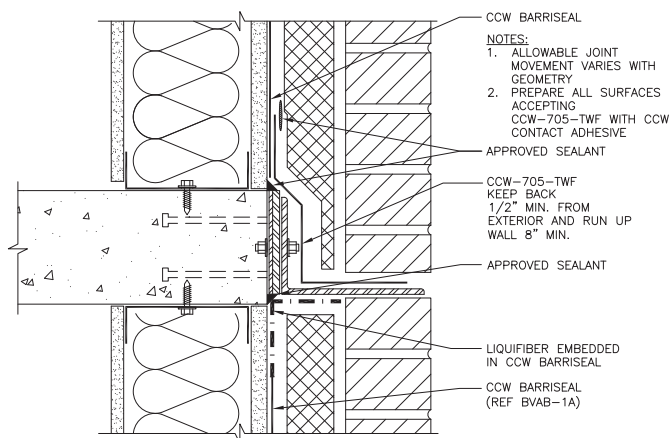
Option 2: CCW LiquiFiber

1. Fill all sheathing joint gaps with approved sealant (reference Group BS-2 on detail BVAB-0A).
2. Apply a liberal amount of CCW Barriseal (minimum 30 wet mils) over the area extending minimum of 1-inch beyond the edge of CCW LiquiFiber onto the compatible waterproofing membrane onto top and bottom of steel angle.
3. Place CCW LiquiFiber into the wet CCW Barriseal bringing the CCW LiquiFiber down so that it terminates a ½-inch from the brick face on the top and minimum 3-inches onto the steel angle on the underside.
4. Apply additional CCW Barriseal (30 wet mils) over the CCW LiquiFiber to embed. Ensure CCW LiquiFiber is fully embedded with CCW Barriseal the same day of installation.
5. Apply CCW Barriseal in accordance with current CCW published literature.

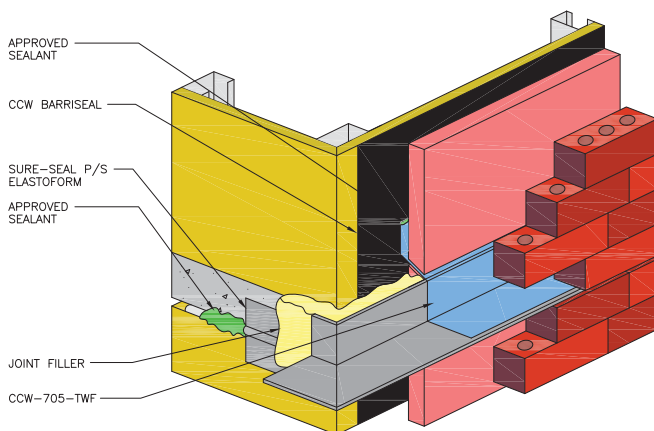
BARRISEAL

INSTALLATION INSTRUCTIONS

BVAB-7C – Option 2: Drift Joint at Floor



BVAB-11K – Isometric Shelf Angle



APPROVED SEALANTS

Barritech NP Approved Sealants	285
Barritech VP/Barritech VP-LT Approved Sealants.....	286
CCW-705 Approved Sealants.....	287
CCW-705FR-A Approved Sealants	288
CCW-705VP Approved Sealants.....	289
Barriseal Approved Sealants.....	290

Barritech NP Approved Sealants

Group BT-1

SEALANTS FOR USE UNDER BARRITECH NP ONLY

- CCW LM 800 XL
- Dap Alex Plus
- Titebond Painters Plus
- Pecora AC-20/AC-20 Plus
- CCW GreenBond WB
- Others as Approved By Carlisle

Group BT-2

SEALANTS FOR USE OVER OR UNDER BARRITECH NP

- CCW-201 By Carlisle
- Dynotrol I, II By Pecora Corp.
- Sikaflex-1A, 2C NS By Sika Corp.
- Carlisle Universal Single Ply Sealant
- Masterseal NP1, NP2 By BASF
- Novalink By Chemlink
- Carlisle Sure-Seal Lap Sealant
- CCW GreenBond WB
- Others as Approved By Carlisle

Group BT-3

SILICONE SEALANTS FOR USE OVER BARRITECH NP ONLY

- Dow Corning 790, 791, 795
- GE Silpruf, Silpruf LM
- Pecora 890, 895
- Others as Approved By Carlisle

Group BT-A

MASTIC TAPE INSULATION ADHESIVES – APPROVED FOR BONDING FOAM BOARD TO CURED BARRITECH NP

- Masterseal Premium Adhesive by BASF
- P-L 300 Foamboard Adhesive by Loctite
- CCW GreenBond WB
- Others as Approved By Carlisle

NOTES:

- Allow solvent-based sealants to cure before covering with Barritech NP.
- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½" depth.

APPROVED SEALANTS

Barritech VP/Barritech VP-LT Approved Sealants

Group BT-1:

SEALANTS FOR USE UNDER BARRITECH VP ONLY

- CCW LM 800 XL
- Dap Alex Plus
- Titebond Painters Plus
- Pecora AC-20/AC-20 Plus
- Others as Approved By Carlisle

Group BT-2:

SEALANTS FOR USE OVER OR UNDER BARRITECH VP

- CCW-201 By Carlisle
- CCW GreenBond WB
- Dynotrol I, II By Pecora Corp.
- Sikaflex-1A, 2C NS By Sika Corp.
- Carlisle Universal Single Ply Sealant
- Masterseal NP1, NP2 By BASF
- Novalink By Chemlink
- Carlisle Sure-Seal Lap Sealant
- Others as Approved By Carlisle

Group BT-3:

SILICONE SEALANTS FOR USE OVER BARRITECH VP ONLY

- Dow Corning 790, 791, 795
- GE Silpruf, Silpruf LM
- Pecora 890, 895
- Others as Approved By Carlisle

Group BT-A:

MASTIC TYPE INSULATION ADHESIVES – APPROVED FOR BONDING FOAM BOARD TO CURED BARRITECH VP

- Masterseal Premium Adhesive By BASF
- P-L 300 Foamboard Adhesive By Loctite
- CCW GreenBond WB
- Others as Approved By Carlisle

NOTES:

- Allow solvent-based sealants to cure before covering with Barritech VP.
- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½ inch depth.

CCW-705 Approved Sealants

Group 705-1:

POLYURETHANE & MS-POLYMER SEALANTS – APPLICATION OVER OR UNDER CCW-705

- CCW-201
- Sikaflex-2C NS
- Novalink by Chemlink
- Pecora Dynatrol II
- Masterseal NP-1/NP-2
- Tremco Dymonic FC/Dymonic 240FC
- CCW GreenBond WB
- CCW-LM 800XL
- Others as Approved By Carlisle

Group 705-2:

SILICONE SEALANTS – APPLICATION OVER CCW-705 ONLY

- Dow 758, 790, 791, 795
- Pecora 890, 895, and AVB Sealant
- GE Silpruf, Silpruf LM
- Others as Approved By Carlisle

Group 705-A:

MASTIC TAPE INSULATION ADHESIVES – APPLICATION OVER CCW-705

- Masterseal Premium Adhesive by BASF
- P-L 300 Foamboard Adhesive by Loctite
- CCW GreenBond WB
- Others as Approved By Carlisle

NOTES:

- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½" depth.
- Allow all sealants to cure a minimum of 16 hours before covering with CCW-705 noting that ambient temperature will affect sealant cure time. More time may be required prior to application of CCW-705.

APPROVED SEALANTS

705FR-A Approved Sealants

Group FR-A-1:

POLYURETHANE & MS-POLYMER SEALANTS OVER OR UNDER CCW 705FR-A

- Sure-Seal Lap Sealant
- Sikaflex-2C NS
- Novalink by Chemlink
- Masterseal NP-1 & NP-2
- CCW-201
- Sure-Seal Universal Single-Ply Sealant
- Pecora Dynotrol II
- TREMCO DYMONIC FC & DYMERIC 240FC
- Others As Approved By Carlisle

Group FR-A-2:

SILICONE & OTHER SEALANTS - APPLICATION OVER 705FR-A ONLY

- DOW 790, 791, 795, & 758
- PECORA 890, 895, & AVB SEALANT
- GE Silpruf, Silpruf LM
- Carlisle Universal Single-Ply Sealant
- Others As Approved By Carlisle

Group FR-A-A:

MASTIC TYPE INSULATION ADHESIVES – APPLICATION OVER 705FR

- Masterseal Premium Adhesive by BASF
- P-L 300 Foamboard Adhesive by Loctite
- CCW GreenBond WB
- Others As Approved By Carlisle

NOTES:

- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½" depth.
- Allow all sealants to cure a minimum of 16 hours before covering with CCW-705FR-A noting that ambient temperature will affect sealant cure time. More time may be required prior to application of CCW-705FR-A.

APPROVED SEALANTS

CCW-705VP Approved Sealants

Group 705VP-1:

POLYURETHANE & MS-POLYMER SEALANTS – APPLICATION OVER OR UNDER CCW-705VP

- CCW LM 800XL
- Others As Approved By Carlisle

Group 705VP-2:

SILICONE SEALANTS - APPLICATION OVER CCW-705VP ONLY

- DOW 758
- Others As Approved By Carlisle

Group 705VP-A:

MASTIC TYPE INSULATION ADHESIVES – APPROVED FOR BONDING FOAM BOARD TO CCW-705VP

- CCW LM-800XL
- Others as Approved By Carlisle

NOTES:

- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½" depth.
- Allow sealant to cure before covering with CCW-705VP

APPROVED SEALANTS

Barriseal Approved Sealants

Group BS-2:

SEALANTS FOR APPLICATION OVER OR UNDER BARRISEAL

- CCW LM-800XL
- CCW-201
- Sikaflex-2C NS
- Masterseal NP-1/NP-2
- Pro-Installer Permathane 7100 by Schnee-Morehead Division ITW
- Tremco Dymonic FC/Dymeric 240 FC
- Others As Approved By Carlisle

Group BS-A:

MASTIC TAPE INSULATION ADHESIVES – APPROVED FOR BONDING FOAMBOARD TO CURED BARRISEAL

- Masterseal Premium Adhesive by BASF
- P-L 300 Foamboard Adhesive by Loctite
- Others As Approved By Carlisle

NOTES:

- Allow solvent-based sealants to cure before covering with Barriseal.
- Follow application instructions by sealant manufacturer.
- Do not install 1-part sealants into joints exceeding ½" depth.



Carlisle Coatings & Waterproofing

900 Hensley Lane | Wylie, TX 75098 | 800.527.7092 | www.carlisleccw.com