![Quik-Therm logo] QUIK-THERM™

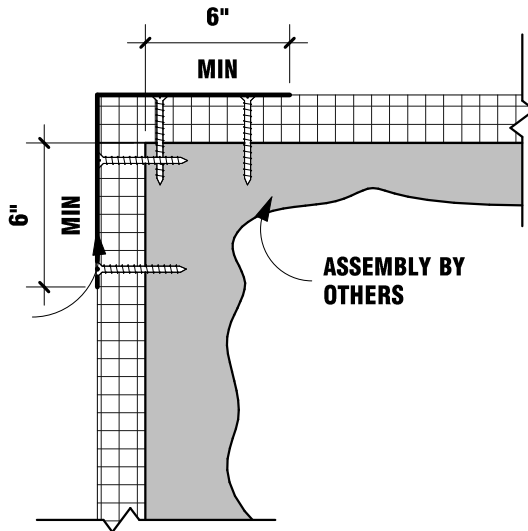Quik-Therm Insulation Solutions Inc.

ENVELOPE DETAILS
Quik-Therm Multi-Purpose (MPI)

quiktherm.com   (888) 735-3012   (204) 736-3012
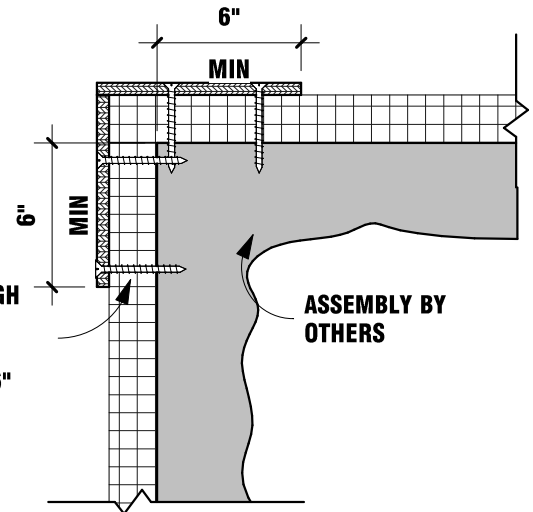
QT-MPI-1
OUTSIDE CORNER
PLAN VIEW
1 1/2" = 1'-0"

6"
MIN

6"
MIN

22Ga. GALVANIZED METAL BREAKSHAPE SECURED THROUGH HORIZONTAL MPI INSULATION W/ 2 FASTENERS AT 16" CENTERS
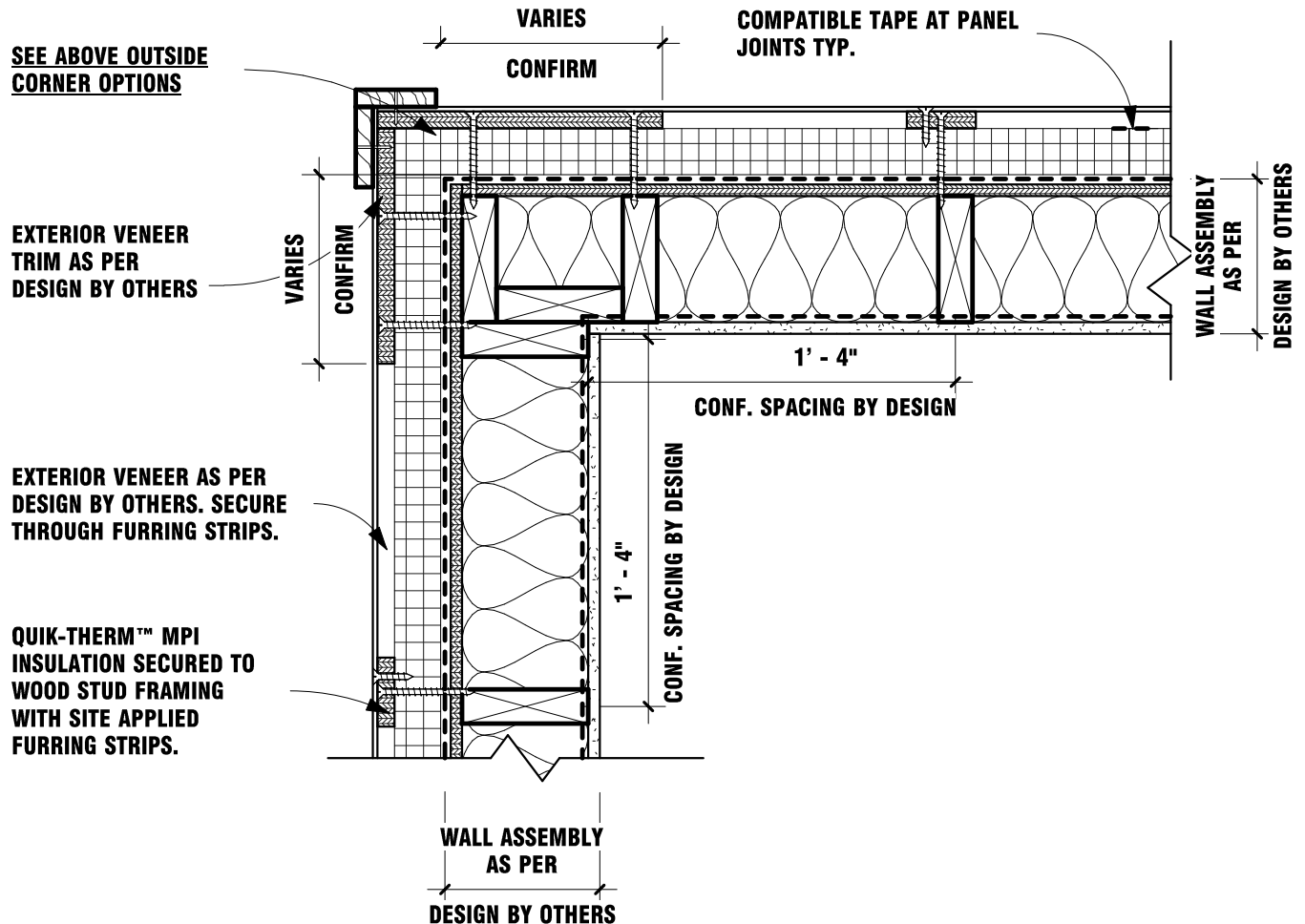
ASSEMBLY BY OTHERS

OPTION #1

6"
MIN

6"
MIN

3/4" PLYWOOD SECURED THROUGH HORIZONTAL MPI INSULATION W/ 2 FASTENERS AT 16" CENTERS

ASSEMBLY BY OTHERS

OPTION #2

VARIES
CONFIRM

COMPATIBLE TAPE AT PANEL JOINTS TYP.

SEE ABOVE OUTSIDE CORNER OPTIONS

EXTERIOR VENEER TRIM AS PER DESIGN BY OTHERS

VARIES

CONFIRM

WALL ASSEMBLY AS PER

DESIGN BY OTHERS

1' - 4"
CONF. SPACING BY DESIGN

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

1' - 4"
CONF. SPACING BY DESIGN

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

WALL ASSEMBLY AS PER

DESIGN BY OTHERS

QT-MPI OUTSIDE CORNER DETAIL

WALL ASSEMBLY AS PER DESIGN BY OTHERS

1' - 4"
CONF. SPACING BY DESIGN

1' - 4"
CONF. SPACING BY DESIGN

EXTERIOR VENEER TRIM AS PER DESIGN BY OTHERS

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

COMPATIBLE TAPE AT PANEL JOINTS TYP.

COMPATIBLE TAPE AT PANEL JOINTS TYP.

WALL ASSEMBLY AS PER DESIGN BY OTHERS

QT-MPI INSIDE CORNER DETAIL

WRAP AIR BARRIER MEMBRANE AROUND QUIK-THERM™ MPI INSULATION AT HEAD AND SILL OF WALL ASSEMBLY

WALL ASSEMBLY AS PER DESIGN BY OTHERS

ROOF ASSEMBLY AS PER DESIGN BY OTHERS

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

COMPATIBLE TAPE AT PANEL JOINTS TYP.

LAP AIR BARRIER OVER SELF ADHERED WATERPROOF MEMBRANE

LAP SELF ADHERED WATERPROOF MEMBRANE OVER PREFINISHED METAL DRIP EDGE

WRAP AIR BARRIER MEMBRANE AROUND QUIK-THERM™ MPI INSULATION AT HEAD AND SILL OF WALL ASSEMBLY

INSECT SCREEN AT BOTTOM OF STRAPPING

PREFINISHED METAL DRIP EDGE

FLOOR SYSTEM AS PER DESIGN BY OTHERS

CLOSED CELL SPRAY FOAM INSULATION AS PER DESIGN BY OTHERS

SILL PLATE WITH FOAM GASKET ON FOUNDATION AS PER DESIGN BY OTHERS

QT-MPI TOP & BTM OF WALL DETAIL

![Quik-Therm logo] QUIK-THERM™

Quik-Therm Insulation Solutions Inc.

ENVELOPE DETAILS
Quik-Therm Multi-Purpose (MPI)

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QT-MPI-4
NAIL ON FLANGE GLAZING
SECTION VIEW
1 1/2" = 1'-0"

WALL ASSEMBLY
AS PER

DESIGN BY OTHERS

INTERIOR

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

EXTERIOR VENEER TRIM AS PER DESIGN BY OTHERS

LAP SELF ADHERED WATERPROOF MEMBRANE OVER PREFINISHED METAL DRIP EDGE

COMPATIBLE TAPE AT PANEL JOINTS

LAP BUILDING AIR BARRIER OVER SELF ADHEARED WATER PROOF MEMBRANE

SELF ADHERED WATER PROOF MEMBRANE OVER GLAZING FLANGE

OPENING HEADER AS PER DESIGN BY OTHERS

2x FRAMING BUILD OUT ALL AROUND AS REQUIRED TO SUPPORT GLAZING ASSEMBLY

WINDOW ASSEMBLY AS PER DESIGN BY OTHERS

EXTERIOR

SELF ADHERED WATER PROOF MEMBRANE AT GLAZING SILL

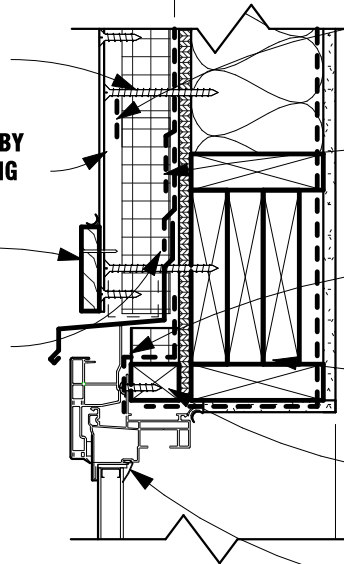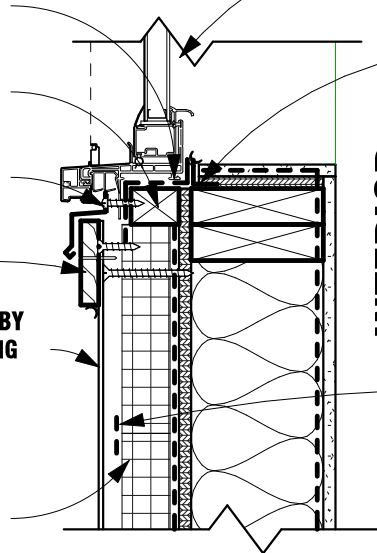2x FRAMING BUILD OUT ALL AROUND AS REQUIRED TO SUPPORT GLAZING ASSEMBLY

PREFINISHED METAL DRIP EDGE OVER GLAZING SILL

EXTERIOR VENEER TRIM AS PER DESIGN BY OTHERS

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

GLAZING BACKSTOP ANGLE DAM AS PER DESIGN BY OTHERS

INTERIOR

COMPATIBLE TAPE AT PANEL JOINTS

WALL ASSEMBLY
AS PER

DESIGN BY OTHERS

NOTE: 2x BUILDOUT, AS INDICATED, REQUIRED AT NAIL ON FLANGE WINDOWS. STORE-FRONT OR CURTAINWALL GLAZING SYSTEMS DO NOT REQUIRE 2x BUILDOUT. ALIGN THOSE WINDOWS WITH EXTERIOR FACE OF WALL ASSEMBLY SHEATHING. REFER TO DESIGN GUIDANCE BY DESIGN PROFESSIONAL

QT-MPI GLAZING HEAD AND SILL DETAIL

INTERIOR

OPENING CRIPPLE STUDS AS PER DESIGN BY OTHERS

2x FRAMING BUILD OUT ALL AROUND AS REQUIRED TO SUPPORT GLAZING ASSEMBLY

WINDOW ASSEMBLY AS PER DESIGN BY OTHERS

COMPATIBLE TAPE OVER INSULATION PANEL AND FENESTRATION FRAMING

EXTERIOR VENEER TRIM AS PER DESIGN BY OTHERS

WALL ASSEMBLY AS PER DESIGN BY OTHERS

QUIK-THERM™ MPI INSULATION SECURED TO WOOD STUD FRAMING WITH SITE APPLIED FURRING STRIPS.

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.

COMPATIBLE TAPE AT PANEL JOINTS TYP.

EXTERIOR

NOTE: 2x BUILDOUT, AS INDICATED, REQUIRED AT NAIL ON FLANGE WINDOWS. STORE-FRONT OR CURTAINWALL GLAZING SYSTEMS DO NOT REQUIRE 2x BUILDOUT. ALIGN THOSE WINDOWS WITH EXTERIOR FACE OF WALL ASSEMBLY SHEATHING. REFER TO DESIGN GUIDANCE BY DESIGN PROFESSIONAL

QT-MPI GLAZING JAMB DETAIL

ENVELOPE DETAILS
Quik-Therm Multi-Purpose (MPI)

Quik-Therm Insulation Solutions Inc.

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QT-MPI-6
DOOR HEAD/JAMB DETAIL
PLAN & SECTION VIEW
1 1/2" = 1'-0"

WALL ASSEMBLY
AS PER

DESIGN BY OTHERS

QUIK-THERM™ MPI INSULATION
SECURED TO WOOD STUD FRAMING
WITH SITE APPLIED FURRING
STRIPS.

EXTERIOR VENEER AS PER DESIGN BY
OTHERS. SECURE THROUGH FURRING
STRIPS.

COMPATIBLE TAPE AT PANEL
JOINTS TYP.

LAP SELF ADHERED AIR BARRIER
MEMBRANE OVER PREFINISHED
METAL DRIP EDGE

OPENING HEADER AS PER
DESIGN BY OTHERS

EXTERIOR VENEER TRIM AS PER
DESIGN BY OTHERS

SELF ADHERED
WATERPROOF MEMBRANE
OVER PREFINISHED METAL
DRIP EDGE

EXTERIOR

INTERIOR

SECTION VIEW

DOOR FRAME AS PER
DESIGN BY OTHERS

INTERIOR

OPENING CRIPPLE STUDS AS
PER DESIGN BY OTHERS

SELF ADHERED
WATERPROOF MEMBRANE
AROUND OPENING & LAP
OVER BUILDING AIR
BARRIER

WALL ASSEMBLY
AS PER

DESIGN BY OTHERS

EXTERIOR VENEER TRIM AS PER
DESIGN BY OTHERS

QUIK-THERM™ MPI INSULATION
SECURED TO WOOD STUD FRAMING
WITH SITE APPLIED FURRING
STRIPS.

COMPATIBLE TAPE AT PANEL
JOINTS TYP.

PLAN VIEW

EXTERIOR

EXTERIOR VENEER AS PER DESIGN
BY OTHERS. SECURE THROUGH
QUIK-THERM™ INSULATION TO
BUILDING STRUCTURE

QT-MPI DOOR HEAD & JAMB DETAIL

ENVELOPE DETAILS
Quik-Therm Multi-Purpose (MPI)

Quik-Therm Insulation Solutions Inc.

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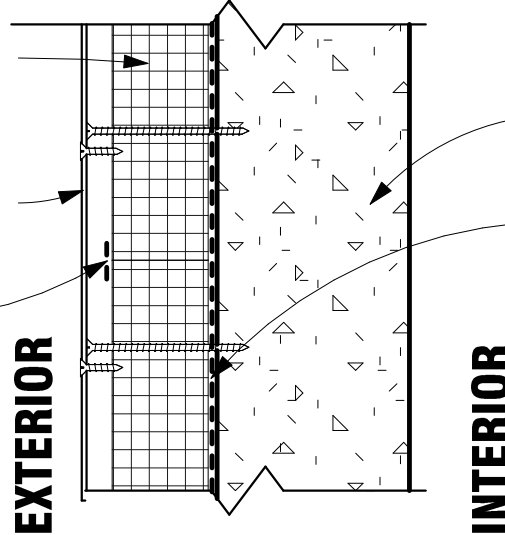
QT-MPI-7
CONCRETE ATTACHMENTS
SECTION VIEW
1 1/2" = 1'-0"

QUIK-THERM™ MPI INSULATION SECURED TO CONCRETE SUBSTRATE WITH SITE APPLIED FURRING STRIPS.

EXTERIOR VENEER AS PER DESIGN BY OTHERS. SECURE THROUGH FURRING STRIPS.
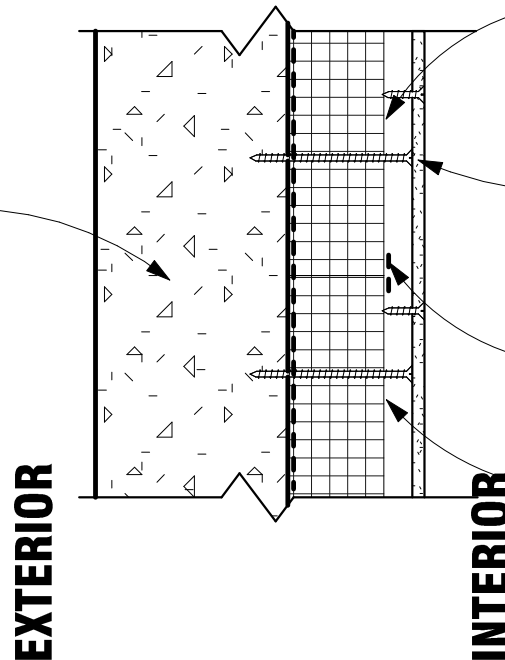
COMPATIBLE TAPE AT JOINTS

CONCRETE SUBSTRATE AS PER DESIGN BY OTHERS

SELF ADHERED WATERPROOF MEMBRANE TO SUBSTRATE

EXTERIOR

INTERIOR

EXTERIOR APPLICATION

CONCRETE SUBSTRATE AS PER DESIGN BY OTHERS

QUIK-THERM™ MPI INSULATION SECURED TO CONCRETE SUBSTRATE WITH SITE APPLIED FURRING STRIPS.

INTERIOR GYPSUM SHEATHING AS PER DESIGN BY OTHERS. SECURE THROUGH QUIK-THERM™ WITH SITE APPLIED FURRING STRIPS AT 16" CENTERS

COMPATIBLE TAPE AT PANEL JOINTS TYP.

PROPERLY INSTALLED QIK-OTHERM™ MPI INSULATION ACTS AS CODE COMPLIANT VAPOUR BARRIER

EXTERIOR

INTERIOR

INTERIOR APPLICATION

QT-MPI CONCRETE (INT & EXT)

ENVELOPE DETAILS
Quik-Therm Multi-Purpose (MPI)
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Quik-Therm Insulation Solutions Inc.

QT-MPI-8
PIPE WRAP DETAIL
SECTION VIEW
1 1/2" = 1'-0"

CANTECH 202 'FLAXPRO' OR ALUMINUM TAPE AT ALL JOINTS

QUIK-THERM™ MPI ROLL

PIPE AS SPECIFICED BY OTHERS
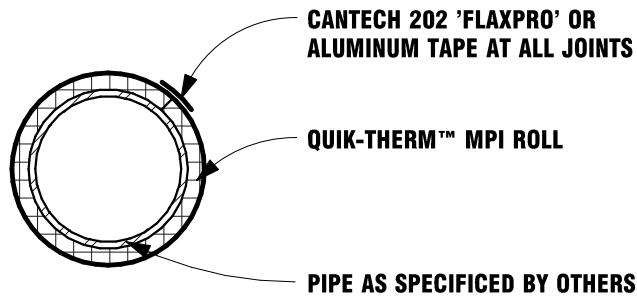
QT-MPI PIPE WRAP DETEAIL

ENVELOPE DETAILS

Quik-Therm Multi-Purpose (MPI)

QUIK-THERM™

Quik-Therm Insulation Solutions Inc.

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QT-MPI-9

NOTES 1

1 1/2" = 1'-0"

Handling & Storage Considerations Notes

1. Store product in a covered area, away from the elements and direct sunlight.
2. Protect product from damage. Although Quik-Therm MPI is rugged and durable, corners and edges are especially susceptible to damage during transport, storage and installation.
3. Although product is lightweight, it is typically shipped in bundles 1' thick consisting of several individual sheets.
4. Bundles may be awkward to handle due to their physical size. Use proper caution to avoid personal injury and/or physical damage to product.
5. Product has an EPS foam core. Keep away from extreme heat.
6. Avoid walking on uninstalled product.

Personal Protective Equipment Notes

Follow standard workplace safety protocols including (but not limited to) the use of eye and hearing protection, gloves, and dust masks as required.

Cutting Notes

1. The product can be cut using a variety of methods typical for standard foam board insulation, including (but not limited to):
· Utility Knife
· Hand Saw
· Circular Saw
· Table Saw
· Hot Knife

Suggested Tools and Materials Notes

Hammer, Screw Gun and/or Nail Gun, Utility Knife & Blades, Hand Saw, Circular Saw, Spray Foam and adhesive (PL-300) or compatible adhesive with Polystyrene foam, Coated Deck Screws (Appropriate length), Hammer Drill (Concrete Only), 4' Level, Caulking Gun, Measuring Tape. Optional: Table Saw.

Basic Panel Installation Notes

1. MPI sheets are available in varying thicknesses, densities and compressive strengths to suit a variety of applications. 1/2" thick MPI rolls are ideal for insulating tanks, large pipes, below grade water mains, and other curved structures.
2. Ensure wall is smooth and free of debris.
3. Ensure MPI panels fit tightly together. To achieve a code compliant air and moisture barrier, foam and/or tape all joints/seams.
4. Use spray foams and/or adhesives compatible with polystyrene foam insulation (i.e. Hilti CF 812 and PL300). For cold weather applications, purchase cold weather spray foams or adhesives.
5. Adhere to local building codes, manufacturer instructions and best practices as outlined by a building design professional.
6. Wood or metal furring can be installed directly over MPI. Refer to FSC Guide.
7. For wood frame buildings over four to six stories please consult a design professional. Special installation details and fastener requirements apply.
8. Apply flashing, caulking, and peel & stick products to ensure that there is no moisture penetration.
9. Consult with your building professional and refer to peel and stick application recommendations.
10. Using appropriate fasteners, fasten through foam insulation to wall stud framing (see FSC Guide). Ensure Quik-Therm label is facing outwards.
11. For temporary fastening, plastic or metal washers and appropriate length screws are ideal for fastening MPI to wood or steel framing. Fasteners should be installed every 6" to 9" apart. Refer to FSC Guide
12. Fastening to Concrete and Masonry: IDP anchors ie: Hilti IDP or Simpson Mushroom Head Crimp Anchors with plastic or steel washers are ideal for fastening MPI to concrete and masonry walls and foundations.

Exterior Perforations Notes (Electrical Boxes / hose bibs etc)

Seal all exterior wall electrical boxes and other breaches using conventional code compliant techniques. Apply tapes and sealants to the Quick-Therm™ MPI Connect polymer film in the same manner as 6 mil polyethylene. Optional: Pressure sealed hard plastic electrical boxes with foam gaskets.

Cladding Installation Notes

1. <u>Lightweight siding materials</u> such as vinyl or metal can be installed vertically or horizontally directly over MPI. Maximum 3" thickness.
2. <u>Heavy cladding materials</u> such as stucco or cement board siding require additional furring and/or sheathing. Please consult a design professional.

Air-Barrier Notes

1. Quik-Therm MPI meets code compliancy as an air and/or vapour barrier and a radon barrier. As part of the air barrier, MPI can be attached to building wrap, peel and stick and poly. Ensure all joints and corners in insulation are spray foamed and/or taped.
2. Although a wood frame building is shown, these general instructions are also applicable to metal framed structures.
3. In all cases, adhere to local building codes, manufacturer instructions and best practices as outlined by a building design professional.
4. See MPI Window and Door Air Barrier Detailing.

Canned Spray Foam Notes

1. Foam together tongue and groove and butt foam to foam connections. Spray foam must be compatible with expanded polystyrene (EPS) rigid foam.
2. Use spray foam to fill cracks and gaps between rigid foam and rigid foam and wood and around windows, doors, etc.
3. DO NOT use spray foam to create an air barrier connection to polymer facers. It DOESN'T create a structural bond.
4. DO NOT use spray foam in lieu of the poly foam gaskets or air barrier sealants.
5. For additional spray foam applications consult with a Design Professional.

Air Barrier Sealants Notes

1. Air Barrier sealants must be compatible with the Quick-Therm™ MPI polymer facers and rigid EPS foam. Recommendations: LePage Quad Max or Henry Air Bloc, or specified by a Design Professional.
2. Liquid applied air barrier sealants can be used to seal window and door nailing fins, etc. to Quick-Therm™ MPI polymer facers. See Installation Guidelines. Refer to Sealant Manufacturer's recommendations.
3. Air barrier sealants are not recommended for foam to foam and wide/large gap connections. Use spray foam to fill large gaps.

Construction Tape Notes

1. Tape all Quik-Therm™ MPI polymer faced tongue and groove and butt joint connections. Recommended Tape: 50500 Cantech Flashing Tape, or other tape specified by a Design Professional.
2. Tape Quik-Therm™ MPI polymer faced panels to wood, PVC, Fiberglass and metal window and door nailing fins.
3. Use minimum 4" wide tape for T&G connections, and vertical sides and bottom of windows and doors.
4. Use minimum 6" wide flashing tape for butt foam connections and along top of windows and doors.