

DELTA[®]-MS CLEAR

Foundation Dampproofing And Wall Waterproofing Membrane For Insulating Concrete Forms.

Installation Instructions

Health and Safety:

- Required safety equipment: hard hat, safety boots, gloves, safety glasses.
- Always follow all safety precautions as directed by the Occupational Safety and Health Administration (OSHA-USA) or the Construction Safety Association (Canada).
- There are no health risks in using DELTA[®]-MS CLEAR and the recommended components.
- Please refer to Material Safety Data Sheets.
- The general codes of practice for protection at work and instructions of the manufacturers tools and components are to be observed at all times.

Recommended Tools:

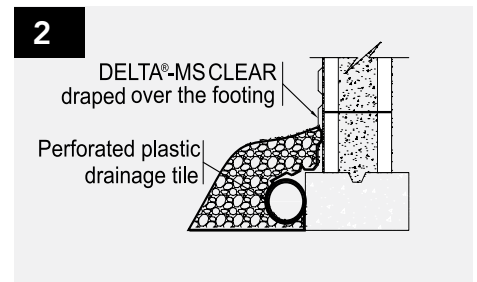
- Cordless power drill with bits and sharp pointed 1 ½" corrosion resistant course thread screw
- Utility knife or scissors.
- Large caulking gun, chalk line, broom.

Getting Down to Installation:

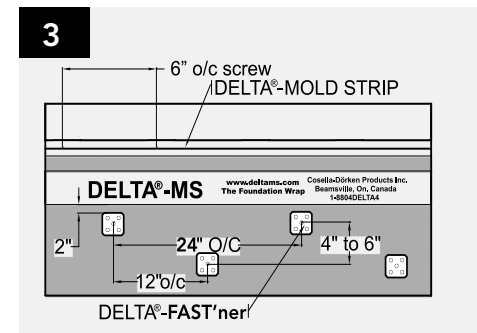
- Snap a chalk line 1" below expected final grade line as a starting point.
- Clean top of footer of any gravel and debris with broom.
- The "flat tab" and orange stripe of DELTA[®]-MS CLEAR should always be at the top of the installation and facing the installer. The dimples facing toward the foundation (see Detail 1).
- With the flat tab lined up along the chalk line, roll out DELTA[®]-MS CLEAR continuously with the membrane draping over top of footing. Position the roll in the direction of installation for easy roll-out of the dimpled membrane (see Detail 2).
- Always install DELTA[®]-MS CLEAR tightly and evenly over the Insulating Concrete Forms Forms.
- For ease of installation, work with 2 people.
- Roll out DELTA[®]-MS CLEAR approximately 10' in length along the wall.
- As one person holds the DELTA[®]-MS CLEAR, the other installs the DELTA[®]-FAST'ners in the body, at appropriate intervals as shown in (see Detail 3).
- For rolls greater than 7' in height, an extra row of DELTA[®]-FAST'ners is suggested in the middle of the membrane.
- Apply a bead of compatible sealant behind the flat tab.
- Install DELTA[®]-MOLD STRIP at the flat tab using sharp pointed corrosion resistant course thread screw (see Detail 3).

Installing around Corners:

- Install DELTA[®]-MS CLEAR on inside corners as tightly as possible by pushing the membrane into the corner, then anchor it in place with DELTA[®]-FAST'ners in the body at 16" o/c vertically and DELTA[®]-MOLD STRIP on the flat tab (see Detail 4).
- Install DELTA[®]-MS CLEAR on outside corners as tightly as possible by pressing



Cold joint protection recommended - see Detail 11



the membrane around the corner, then anchor it in place with DELTA®-FAST'ners in the body at 16" o/c vertically and DELTA®-MOLD STRIP on the flat tab (see Detail 5).

Joins and Overlaps:

- Vertical joints, apply a bead of compatible sealant between the overlaps. Install DELTA®-FAST'ners along the full length of the joint 16" o/c, with minimum 6" overlap. (see Detail 6).
- For foundations higher than the roll height, install the first course by rolling out DELTA®-MS CLEAR at the bottom of the wall. The next course of DELTA®-MS CLEAR shall overlap the bottom layer by at least 6", shingled downwards.
- Horizontal joints require the installation of DELTA®-FAST'ners along the full length of the joints at 36" o/c. DELTA®-MOLD STRIP is not required on the lower overlapped section. (see Detail 7).

Installation of DELTA®- MOLD STRIP:

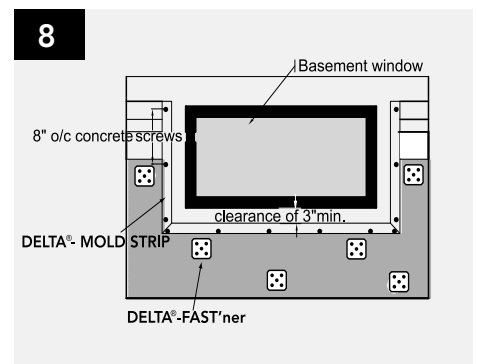
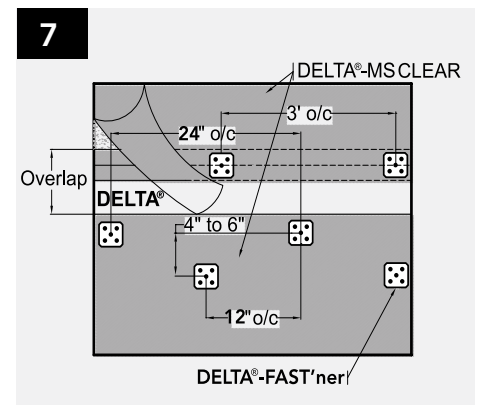
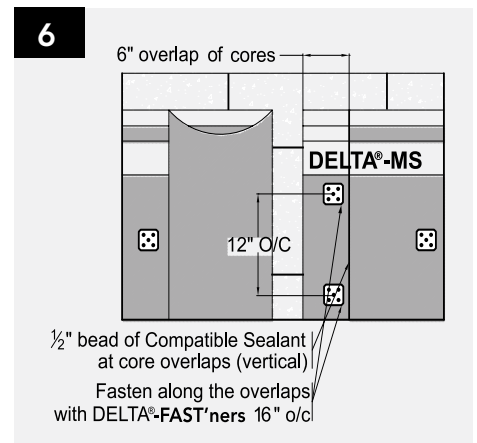
- Install DELTA®-MOLD STRIP at all below grade cuts of the membrane such as at window wells, walkouts, vertical termination, etc. (see Detail 8).
- Cut back DELTA®-MS CLEAR 3" from the edge of wall openings.
- Position the wider edge of the DELTA®-MOLD STRIP over DELTA®-MS CLEAR.
- Use DELTA®-MOLD STRIP at sloped cuts in the DELTA®-MS CLEAR.
- Anchor DELTA®-MOLD STRIP at 6" o/c with sharp pointed 1 ½" corrosion resistant course thread screws.

Repairs:

- Should DELTA®-MS CLEAR get damaged prior to backfill, cut patches of DELTA®-MS CLEAR large enough to cover any tear. Minimum 6" around damaged area.
- Apply a bead of compatible sealant around the tear.
- Apply patch over tear and install DELTA®-FAST'ners to hold the patch tightly against membrane making sure dimples align (see Detail 9).

Service Penetration:

- When encountering a service penetration protruding from the foundation, roll DELTA®-MS CLEAR flush to penetration.
- Cut the DELTA®-MS CLEAR vertically. Fasten the cut end with DELTA®-FAST'ners to keep in place 30" o/c vertically.
- Restart application on other side of service penetration. Unroll enough DELTA®-MS CLEAR to go around the service penetration plus another 6" for overlap.
- Cut the length of unrolled portion horizontally at a point equal to the center of the service penetration (see Detail 10).
- Pull the slit portion around the penetration and trim the DELTA®-MS CLEAR to fit snugly.
- Peel back the cut membrane and apply compatible sealant around the penetration.
- Push the cut membrane back around the penetration.
- Interlock the overlapping dimples.
- Treat as a standard vertical lap with DELTA®-FAST'ners 16" o/c, being sure to place a DELTA®-FAST'ner on top and bottom of the slit.



If DELTA®-COLDJOINT BARRIER is required for additional moisture protection at cold joint area at the base of the wall, it must be installed prior to installing DELTA®-MS CLEAR.

DELTA®-COLDJOINT BARRIER should be used if:

- A fluctuating water table is encountered.
- There is a potential for water to temporarily back up in the footing drain and at the base of the foundation wall.
- Footing drain is placed on top of footing.
- Floor slab is poured level with, rather than on top of, footing.
- Apply DELTA®-COLDJOINT BARRIER membrane to cover the footing and wall to a point one foot higher than the anticipated water table (see detail 11).

Clean-up and Inspection:

- Walk around foundation and ensure all materials are installed as required.
- Clean up all excess materials and remove from excavation.

Disposal of Waste:

- DELTA®-MS CLEAR is made of environmentally friendly HDPE.
- Waste can be recycled where facilities allow.

Limitations:

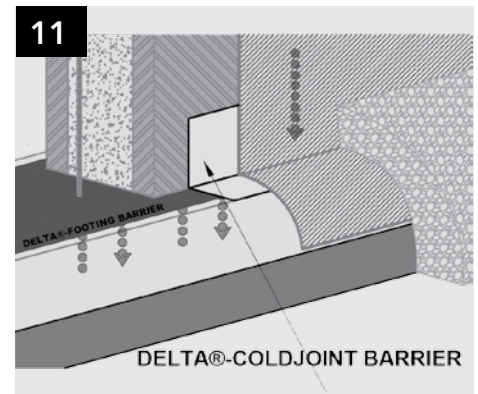
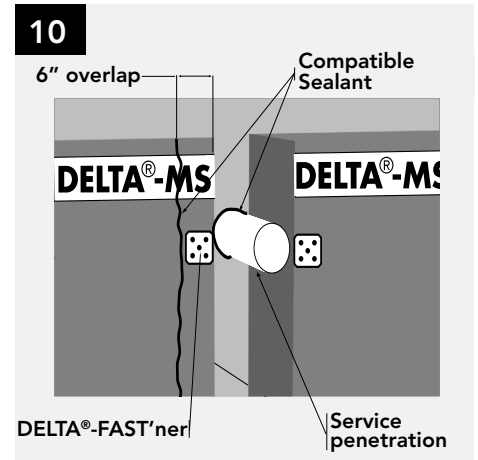
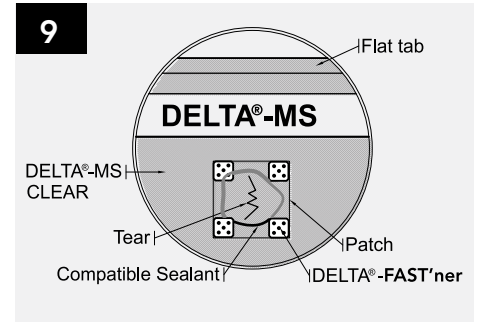
- DELTA®-MS CLEAR should not be exposed to sun light (UV) for more than 30 days.

For technical support, call the Technical Support Team at 1-888-4DELTA4 (1-888-433-5824) ext: 326.

www.cosella-dorken.com

Evaluation Reports (Certifications)

Foundation Dampproofing and Wall Waterproofing Membrane
 CCMC#13169 Dampproofing
 CCMC#13197 Foundation Drainage
 ICC ES, ESR-1019



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