



Basic Installation Guide – Wood Substrate Module: CM-001

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Dec-Tec™ is a watertight, walkable PVC membrane roof/deck system.
This guide supplies information on recommended installation practices for the Dec-Tec™ product line.

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1.0 PREFACE

This guide supplies information on recommended installation practices for the Dec-Tec product line.

Dec-Tec is a watertight walkable PVC membrane roof/deck system.

For optimum results it is important to use all products in the system. Use of alternative products may render the Dec-Tec limited membrane warranty null and void.

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2.0 STRUCTURE

A strong foundation and properly constructed base structure are essential to the success and longevity of the installation. Structural elements of the project should be constructed and inspected carefully ensuring conformance to local building codes. Failure to recognize and remedy undesirable structural conditions can potentially lead to issues affecting the quality of the overall installation.

Dec-Tec does not supply or install framing or sheathing products. Always refer to the governing building code requirements and manufacturer's instructions/recommendations before constructing or altering supporting structures.

2.1 FOOTINGS

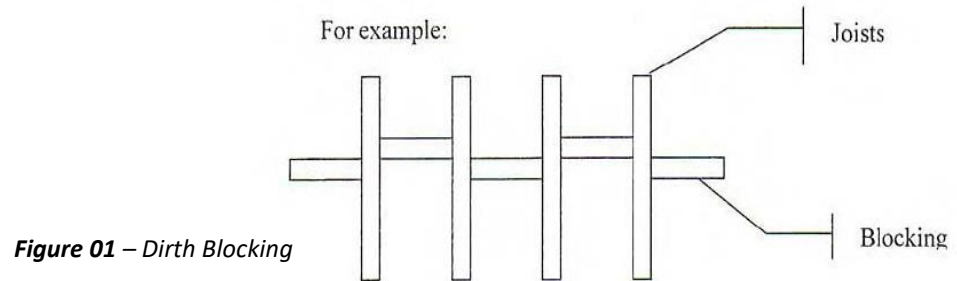
- 2.1.1 Ensure the footings design is compliant with local building codes and acceptable practices.
- 2.1.2 Observe how support posts/columns are installed and secured (pilings, on a slab, on blocks, or otherwise) and how seasonal conditions such as frost might affect movement or shifting of the structure.
- 2.1.3 Check for damaged, weak wood and rot paying particular attention around the base of footings and along the support posts.
- 2.1.4 Check to see if Pressure Treated (PT) lumber is present. The use of pressure treated lumber is NOT recommended due to its high moisture content which can cause lumber to shrink, twist, warp, etc. as it dries. This, in effect, can have a negative impact on the overall system including the Dec-Tec membrane.

2.2 FRAMING / JOIST STRUCTURE

Always check to ensure that the framing design and construction is compliant with local building codes and acceptable practices.

Recommendations:

- 2.2.1 **General Condition:** Inspect the framing / joist system for signs of damage such as wood rot, infestation, badly twisted, cracks, splits, etc.
- 2.2.2 **Framing Lumber:** 2"x8" (minimum), kiln-dried, crown sides up. All structural components should be comprised of untreated natural wood products. The use of pressure treated (PT) wood is NOT recommended due to its typical high moisture content which can cause the lumber to shrink, twist, warp, etc. as it dries. This, in effect, can have a negative impact on the overall system including the Dec-Tec membrane.
- 2.2.3 **Joist Spacing:** 16" / 400mm centers (maximum).
- 2.2.4 **Joist Blocking:** Is there adequate cross bracing installed? Dirth blocking technique should be used on any span over 8' long to prevent twisting of the joists. (*Ref. Figure 01*).



2.2.5 **Slope:** 2% positive slope = $\frac{1}{4}$ "/ft. to prevent ponding.

2.2.6 **Moisture:** Ideal moisture content (MC) of the framing / joist system components at the time of installation is 9% to 14% @ 70% relative humidity / 68 deg. F (20 deg. C). Pay special attention to new construction. The acceptable moisture level in wood depends primarily on the final use of the wood and the average relative humidity at the place where the wood is to be used. Other factors may include the wood species and the thickness or size of the wood. In all cases, determining the acceptable moisture level of wood requires the use of an accurate moisture meter.

Failure to allow the wood to acclimate or come in balance with the relative humidity (RH) at its end-use location can result in a number of moisture-related problems in the wood – including warping, cracking, buckling, diminished wood strength, corrosion of fasteners, and even fungal growth after the wood products are constructed. In general, for most areas of the United States and Canada, acceptable moisture levels of wood can be in the range of 9% to 14% MC (Moisture Content) for exterior wood or building envelope components within constructed assemblies. Wood moisture content in this range, therefore, is considered sufficiently dry for exterior in-service wood.

2.2.7 **Structural Deflection:** $L/360$ min.

Structural deflection is usually expressed as a fraction; clear span in inches (**L**) over a given number. For example, a floor joist appropriately selected to span 10 feet with an $L/360$ limit will deflect no more than $120"/360 = 1/3$ inches under maximum design loads, (Ref. Figure 02).

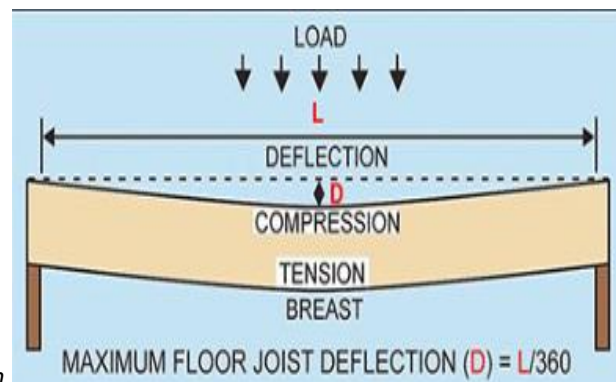


Figure 02– Structural Deflection

- 2.2.8 **Ventilation:** Provide adequate ventilation to the underside of decks that are built close to finished grade. If the substrate is to be installed over living space, airflow must be present below the substrate and above the insulation layer to keep frost and dew from forming on the underside of the substrate.
- 2.2.9 **Drainage:** Install drain(s) at points of maximum deflection (low spot). Make sure there are no beams, joists, columns, or other impediments located where the drain is to be installed. Any required overflows should be installed in close proximity to the drain(s) and located no more than 2" above the deck surface and lower than any building openings.
- 2.2.10 **Door Openings:** Rough door openings to be 3.5" to 6" (90mm to 150mm) above the elevation of the finished deck. Install the Dec-Tec membrane up the wall and onto the sill plate to achieve optimum waterproofing. Lower rough opening elevations to accommodate handicap accessible doors are acceptable. Contact your Dec-Tec technical team for installation instruction.

DISCLAIMER: Issues resulting from improper design or construction of the supporting structure, use of improper substrates, improper slope, drainage or ventilation, substrate movement or deflection, or from moisture-related problems in the wood are specifically excluded from Dec-Tec's warranty. The manufacturer or supplier of products (not supplied by Dec-Tec) is responsible for ensuring the compatibility and correctness for their use with Dec-Tec PVC membranes and accessories.

3.0 SUBSTRATE

3.1 APPROVED WOOD SUBSTRATE

Dec-Tec does NOT recommend the use of any wood substrate that is not approved below. Use of any wood substrate other than those approved may VOID any warranty expressed or implied. Dec-Tec acknowledges there may be other suitable wood substrates and is prepared to review and possibly test alternative substrates at its sole discretion.

3.1.1 Preferred Substrate

Thickness: 3/4 inch / 18.25mm
Grade: T&G, B-C Grade or better
Species: North American Group 1 (Douglas-fir)
Classification: Exterior

Exterior rated plywood is made with fully water-proof adhesives and, in addition, is composed of C-Grade or better veneers throughout. This combination provides maximum resistance to the effects of daily cyclic variations of moisture and temperature caused by permanent exposure to weather.

3.1.2 Acceptable Substrate

Thickness: 5/8" inch / 15.5mm
Grade: T&G, C-D Grade or better
Species: North American Group 2 SPF (Spruce-Pine-Fir)
Classification: Exposure 1

Exposure 1 rated sheathing is made with the same fully water-proof adhesives as exterior rated plywood's but may include D-Grade veneers. Because of the veneer grades used, panels that are subjected to prolonged severe moisture conditions may occasionally develop limited, highly localized glue-line delamination's coincident with grade characteristics. These concerns are negated however when exposure to the outdoor elements is on the under-side only making "C-D Exposure 1" (aka CDX) rated plywood a compatible and approved substrate.

Note: CDX is not the name of a plywood grade. C-D refers to the appearance and treatment of the veneers (faces) of the plywood. One is rated "C" grade and the other side is rated "D" grade. The letter "X" refers to the rating of the adhesives used in the plywood. Where "X" = Exterior rated.

- 3.1.3 **Oriented Strand Board (OSB)** is approved for use on **VERTICAL SURFACES ONLY**. OSB, also known as flakeboard, sterling board and aspenite, is a type of engineered lumber like particle board, formed by adding adhesives and then compressing layers of wood strands (flakes) in specific orientations. Oriented Strand Board (OSB) is an approved substrate for use on vertical surfaces ONLY. OSB IS NOT APPROVED AS A SUBSTRATE ON HORIZONTAL SURFACES.

3.1.4 General Considerations / Recommendations

- 3.1.4.1 Fir is recommended over Spruce. Fir plywood is much harder, stronger, and dimensionally more stable than spruce plywood.
- 3.1.4.2 Plywood described as good one side (G1S) is preferred over construction grade plywood. A smoother surface can help minimize surface repair and can help reduce the need for Dec-Patch II.
- 3.1.4.3 Only use well-seasoned (dry) substrate material that has never been wet or subjected to conditions where it could swell. Do NOT install Dec-Tec over a damp or wet substrate. Ensure substrates are thoroughly dried throughout and not just the surface veneers. Pay special attention to the edges of the substrate.
- 3.1.4.4 Do NOT install Dec-Tec over coated substrates. Installing directly over coated substrates can cause membrane discoloration due to long-term compatibility issues. Coated substrates are not compatible with Dec-Tec's adhesives.
- 3.1.4.5 Some plywood manufactures adhesives used to secure plywood patches, predominantly in grade "A" panels, have been known to stain PVC membranes. Dec-Tec recommends sealing all manufacturer patches with 2 coats of Zinsser Bin Shellac Based Primer Sealer.

3.2 NON-APPROVED WOOD SUBSTRATE

3.2.1 NON-Approved Substrates

- Oriented strand board (OSB) *
- Particle board
- Poplar plywood
- Luan
- Marine board
- Panels with medium-density overlay (MDO) or high-density overlay
- Any type of treated plywood (example; fire treated, or pressure treated)
- Any type of sealed plywood with field and or edge sealants either factory or field applied
- Any type of coated substrate

* Oriented Strand Board (OSB) is an approved substrate for use on vertical surfaces ONLY. OSB is NOT approved as a substrate on horizontal surfaces.

Please contact your Dec-Tec field representative or Dec-Tec Technical Support at 1-866-461-3914 for further information regarding non-approved substrates.

3.3 SUBSTRATE INSTALLATION

Substrate preparation is key! Every successful installation begins with a properly installed and prepared substrate.

- 3.3.1 **Ventilation:** Provide adequate ventilation to the underside of decks that are built close to finished grade. If the substrate is to be installed over living space, airflow must be

present below the substrate and above the insulation layer to keep frost and dew from forming on the underside of the substrate.

- 3.3.2 **Moisture Content:** Ideal moisture content (MC) of substrate / plywood at the time of installation is 9% to 14% @ 70% relative humidity / 68 deg. F (20 deg. C). Pay special attention to new construction. The acceptable moisture level in wood depends primarily on the final use of the wood and the average relative humidity at the place where the wood is to be used. Other factors may include the wood species and the thickness or size of the wood. In all cases, determining the acceptable moisture level of wood requires the use of an accurate moisture meter.

Failure to allow the wood to acclimate or come in balance with the relative humidity (RH) at its end-use location can result in a number of moisture-related problems in the wood – including warping, cracking, buckling, diminished wood strength, corrosion of fasteners, and even fungal growth after the wood products are constructed. In general, for most areas of the United States and Canada, acceptable moisture levels of wood can be in the range of 9% to 14% MC (Moisture Content) for exterior wood or building envelope components within constructed assemblies. Wood moisture content in this range, therefore, is considered sufficiently dry for exterior in-service wood.

- 3.3.3 **Panel Sheet Placement:** Plywood panels should be installed with the surface grain at right angles to the joists. Install the first row of plywood at building side with the “tongue” facing the building. Remove the tongue for a tight fit. All plywood joints should be supported by the dimensional wood framing joists. Extend plywood to finish line of the deck (outside edge) including trims, fascia boards, etc. Install blocking under any unsupported joints.

Screw the plywood panels in place, stagger end joints in each succeeding row. Center panels over load bearing beams, wall, etc. to reduce ridging. Panels should span a minimum of 3 joists, (Ref. Figure 03).



Figure 03 – Securing the Substrate to the Joist System

- 3.3.4 **Panel Adhesive:** Ensure all plywood panels are glued together and to the joist system with structural adhesive. (Examples include Chemlink M-1, PL 400, and PL Premium).
- 3.3.5 **Fasteners:** Recommend 1-3/4" (min) yellow zinc coated exterior wood deck screw. Slightly countersink all fastener heads. NO nails, NO exceptions.
- 3.3.6 **Fastener Spacing:** Space fasteners 6" (150mm) o.c. along edges and 8" (200mm) o.c. along intermediate supports.
- 3.3.7 **Protection:** Installed Spruce-Pine-Fir (SPF) panels should be waterproofed immediately as they are more prone to face checking when left exposed to the elements. Protect plywood from rain & snow after installation to prevent moisture pickup. Do not place tarps directly on wood. Use sleepers under tarps to allow for air movement.
- 3.3.8 **Slope:** 2% positive slope recommended = 1/4"/ft. to prevent ponding.
- 3.3.8.1 Ensure conformance to local building codes.

- 3.3.8.2 Dec-Tec recommends the substrate surface be sloped a minimum of 2-degrees or 1/4" slope per linear foot, (Ref. Figure 04).

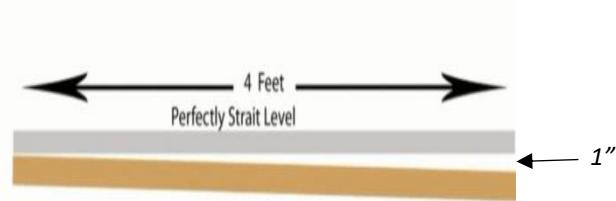


Figure 04 – Recommended Slope 1/4 Inch Per Foot Slope

- 3.3.8.3 Using a 4' level check is a good method to verify slope. With one end edge of the level touching the floor raise the opposite end until the level reads "level". The distance from the floor to the raised portion of the level should be 1" or more. $4\text{ft (length of the level)} \times 1/4" \text{ (slope requirement per foot)} = 1"$
- 3.3.8.4 Avoid using methods such as a ball test as these types of checks are inaccurate.
- 3.3.8.5 Be wary of remodeled / existing wooden decks that may have been covered over with plywood as it is likely they did not incorporate any slope into their design when initially built.
- 3.3.8.6 Slopes ranging between 0-degrees up to a 2-degree will likely result in pooling and ice buildup during winter conditions and will generally lend to a dirtier surface as time goes on.
- 3.3.8.7 Inspect and note the direction of the slope(s) as it may change in different areas. Knowing the direction of the slope is key to understanding and controlling water dispersal and is required in order to properly design and install Dec-Clad Drip Edge.
- 3.3.8.8 Adverse slope conditions should be treated as a defective condition and reviewed accordingly.

Disclaimer: Issues resulting from improper design or construction of the supporting structure, use of improper substrates, improper slope, drainage or ventilation, substrate movement, substrate deflection or from moisture-related problems in the wood are specifically excluded from Dec-Tec's warranty. Please refer to the written warranty for further detail. The manufacturer or supplier of products (not supplied by Dec-Tec) is responsible for ensuring the compatibility and correctness for their use with Dec-Tec PVC membranes.

4.0 PRE-INSTALLATION

Pre-installation involves;

- Confirming a strong foundation and properly constructed base structure to install over.
- Installation of drainage components such as Dec-Drain or Dec-Scuppers (if required).
- Installation of metal overlay such as Dec-Clad Drip Edge, Dec-Clad Kickout and Dec-Clad Sheet Metal (as required).
- Final preparation of the deck surface.

4.1 DRAINAGE – PRE-INSTALL DEC-DRAIN

The Dec-Tec NDR 4-1 Dec-Drain (*Ref. Figure 05*) provides the ultimate in field flexibility. The multi-stepped design allows for attachment of various sizes of outlet pipes, while still fitting inside confined joist spaces. Dec-Tec membranes can be easily welded to the PVC coated flange, ensuring the best defense against water back up or penetration underneath the membrane, (*Ref. Detail Drawing TDD-012 – NDR 4-1 Dec-Drain Detail*).

Features;

- Heat weldable flange
- Spun aluminum body
- Removable grate
- Multi size stepped design fits 3" Direct Connect to 1 - 1/2" I.D. pipe sizes



Figure 05 – Dec-Drain

4.1.1 Considerations

- 4.1.1.1 Establish if there is a plan or the need to have a drain installed.
- 4.1.1.2 Dec-Drains are required where it is NOT possible to get adequate slope and there is a need to negotiate pooling water.
- 4.1.1.3 Dec-Drains are required if there are parapet walls with no scuppers installed.
- 4.1.1.4 Dec-Drains are typically NOT required if there is adequate drainage that will be provided by installed scuppers.
- 4.1.1.5 If a drain is required, establish where it will be installed.

4.1.2 Installation Procedure

- 4.1.2.1 Find the low spot on the deck using a level.
- 4.1.2.2 Determine if it is physically possible to place a drain where the low spot is.
 - 4.1.2.2.1 Make sure joists do not impede where the drain is to go.
 - 4.1.2.2.2 Make sure the chosen location can accommodate any associated plumbing parts that will be required.
- 4.1.2.3 Drill a 5" hole in the substrate.
- 4.1.2.4 Place the Dec-Drain in the hole and center.
- 4.1.2.5 Trace around the outside perimeter of the Dec-Drain onto the substrate and then remove the Dec-Drain from the hole.
- 4.1.2.6 Remove 1/8" of substrate inside the circle mark using a grinder and chisel.
Tip - each ply of the plywood is ~1/8" thickness.

- 4.1.2.7 Ensure there is adequate support blocking around the Dec-Drain.
- 4.1.2.8 Apply a generous and continuous bead of construction adhesive to the underside of Dec-Drain flange.
- 4.1.2.9 Seat and compress the Dec-Drain back into the hole ensuring the top surface of the flange is flush with the substrate.
- 4.1.2.10 Fasten the Dec-Drain flange to the substrate 2" o/c using appropriate fasteners.
- 4.1.2.11 Apply Dec-Patch II (if needed) to ensure a smooth and even transition between the substrate and the Dec-Drain flange.
- 4.1.2.12 Temporarily store Dec-Drain grate in a safe location as it will be needed to complete installation once the Dec-Tec membrane has been installed.
- 4.1.2.13 Once the Dec-Tec membrane has been installed over the previously installed Dec-Drain, mark the membrane as close to the center of the drain hole as possible.
- 4.1.2.14 Cut out the drain hole in Dec-Tec membrane using a utility knife.
Tip - Cut a small pilot hole at first and insert your finger to better locate the PVC coated edge. This will help reduce the risk of cutting back the membrane too far.
- 4.1.2.15 Thermally heat weld the Dec-Tec membrane onto the exposed drain flange.
- 4.1.2.16 Use a utility knife to trim off excess membrane.
- 4.1.2.17 Double check the integrity of the weld using a seam tester to make sure it's solid all the way around.
- 4.1.2.18 Expose the screw holes to enable installation of the strainer (drain grate)
- 4.1.2.19 Install the drain grate, (*Ref. Figure 06*).



Figure 06 – Dec-Drain

4.2 DRAINAGE – PRE-INSTALL DEC-SCUPPER

Dec Tec provides a selection of prefabricated Dec-Scuppers designed to meet typical installation requirements. Dec-Tec also provides affordable and quick turnaround of custom fabricated scuppers to any dimension, (*Ref. Detail Drawing TDD-013 – Dec-Scupper Detail*).



The Dec-Scupper (*Ref. Figure 07*) is the ideal through wall drain to use with Dec-Tec membranes. Dec-Scuppers have a PVC coated flange to which the membrane is thermally heat welded to ensure waterproofing. The one-piece construction makes it easy to install and the rigidity of the scupper allows on site workability to be increased. The Dec-Scupper is available in three diameter options.

Figure 07 – Dec-Scupper

Features;

- Solid one-piece design eliminates potential leaks within the scupper.
- Can thermally heat weld Dec-Tec membranes directly to the scuppers flange.
- Three diameter options
 - 1-7/8" - No slope
 - 2" - 10% slope
 - 3" - 10% slope

4.2.1 Considerations

- 4.2.1.1 Be careful not to assume a scupper is not required just because there is no existing roughed in opening. Discuss drainage plans with General Contractor/Plumbing Contractor prior to starting (if possible).
- 4.2.1.2 If required, the general rule of thumb is to plan for and design the physical dimensions of the scupper to be ~ 1/4" smaller than the roughed in opening.
- 4.2.1.3 Strive for 4-1/2" clearances at minimum to be able to get the thermal heat welder nozzle into place.
- 4.2.1.4 Strive to design and incorporate a 10-degree slope inside the Dec-Scupper.
- 4.2.1.5 Strive to design the scupper so that it will protrude a minimum of 2" beyond the finished outside wall so water can drain freely away from the exterior wall.

4.2.2 Installation Procedure

- 4.2.2.1 Mark and cut out a hole on the vertical wall to accommodate the outlet tube/box.
Tip - a plunge cut using a saws-all is the general technique used to accomplish this.
- 4.2.2.2 Drill through the wall at an angle to match the downward slope of the outlet tube/box. Where possible it is preferred to design the downward slope of the

tube/box at 10 degrees. We want the scupper set steep so that it flows water well.

4.2.2.2.1 Recommended slope on the deck substrate is 1-2 degrees.

4.2.2.2.2 Recommended slope on the scupper base is 10 degrees.

4.2.2.3 Insert the Dec-Scupper into place and trace an outline of the flange edges onto the plywood using a pencil.

4.2.2.4 Cut and remove enough depth on the plywood so that the flanges on the Dec-Scupper will be recessed and sit flush or slightly lower than the substrate once it is installed.

4.2.2.5 Apply a continuous bead of construction adhesive to the substrate in the recessed area ~2" in from the outside edge. Alternatively, the construction adhesive can be applied to the backside of the flanges on the scupper. In both cases, the construction adhesive should be placed in the area where the fasteners will be installed that attach the scupper to the substrate.

4.2.2.6 Set the Dec-Scupper into place making sure not to smear any construction adhesive onto deck surface.

4.2.2.7 Fasten the vertical and horizontal flanges of the Dec-Scupper into the recessed area of substrate using appropriate fasteners.

4.2.2.7.1 Recommend, flat head pan screws to secure plastic flanges and roofing nails when securing sheet metal flanges.

4.2.2.8 Apply Dec-Patch II (if needed) to ensure a smooth and even transition between the substrate and the edges of the Dec-Scupper.

4.2.2.9 Once the Dec-Tec membrane positioned and installed over the Dec-Scupper, locate the discharge tube/box outlet and cut out the membrane hole to fit inside of the outlet tube/box.

4.2.2.10 Place your thermal heat welder tip in between the membrane and the scupper flange and fully weld the membrane around the entire perimeter of the discharge tube/box ensuring a total watertight seal.

Tip - A 90° nozzle for the thermal heat welder can come in handy for this procedure.

4.3 METAL OVERLAY – PRE-INSTALL DEC-CLAD DRIP EDGE

Dec-Clad Metal is utilized as overlay material to cover surfaces where the use of adhesives is not possible or as termination points for the Dec-Tec membrane where needed.

Dec-Clad Metal overlay options include, **Dec-Clad Drip Edge**, **Dec-Clad Kickout** and **Dec-Clad Sheet Metal**.

Termination has always been a difficult detail in the decking business, until now. Dec-Clad Drip Edge (*Ref. Figure 08*) offers the easiest and most efficient way to terminate membrane details. Dec-Clad Drip Edge is fastened to the edge of the deck and the Dec-Tec membrane is thermally heat welded onto the Dec-Clad Drip Edge ensuring waterproofing and a great aesthetic finish. There is no need to wrap the membrane over the face of the deck and risk weakness and water penetration, (*Ref. Detail Drawing TDD-008 – Dec-Clad Drip Edge Detail: Typical*).

Features;

- 24 - Gauge aluminum or G90 galvanized steel.
- PVC coated making welded terminations easy and watertight.
- Color matched to Dec-Tec membranes.
- Available in 8' long lengths, easily cut and fit on site.
- Standard dimensions: 2" x 1.5" x 1/2" x 1/2".



Figure 08– Dec-Clad Drip Edge

4.3.1 Considerations

- 4.3.1.1 Determine where Dec-Clad Drip Edge is to be installed.
- 4.3.1.2 Exterior Finish - It is very important to know what exterior finish is going to be applied to the face of the rim joists to know how far back the Dec-Clad Drip Edge can be set back when installed. Sufficient space must be left between the Dec-Clad Drip Edge and the rim joists to accommodate the finished material to be slipped up between them (assuming the finished material has not been applied yet). Be sure to check with the general contractor prior to installing the Dec-Clad Drip Edge.
- 4.3.1.3 Railings - It is also important to know what type of railing system will be installed. Typically, railing systems that are mounted on the vertical surface of the rim joist are mounted ~3" from the top edge of the deck. Be sure to check with the general contractor prior to installing the Dec-Clad Drip Edge to ensure there will be no conflict with the fascia mounted railing systems that would be added afterwards.
- 4.3.1.4 End Joints - Determine where Dec-Clad Drip Edge Joint Details will be located. Dec-Clad Drip Edge is available in 8' long lengths and as such multiple pieces are usually required to cover the perimeter of a typical deck. Determining the approximate location where the ends of Dec-Clad Drip Edge will end up will provide you with an understanding as to where and how many joint details there will be.

4.3.2 Installation Procedure

- 4.3.2.1 Check for and remove or countersink any nails and screws from the perimeter where the drip edge is to be inset and then plane down the surface of the plywood substrate 2" in from the edge to accept the Dec-Clad Drip Edge.
- 4.3.2.2 Install Dec-Clad Drip Edge using 1-1/4" to 1-1/2" standard roofing nails staggered at 4" intervals (*max*).

Important – The horizontal surface width of standard Dec-Clad Drip Edge is 2". Be sure to leave 1" from the outside edge clean and free of nails to facilitate thermal heat welding of the membrane.

Recommended Joint Detail

Dec-Clad Drip Edge that is installed on wood substructure tends to expand and contract at a different rate than the wood below it. Dec-Clad Drip Edge is available in 8' lengths and as such multiple pieces are usually required to cover the perimeter of a typical deck. Butting up the ends of Dec-Clad Drip Edge pieces with each other is NOT a recommended practice as contraction and or expansion of the metal increases the potential for the membrane to fishmouth over time.

Dec-Tec's recommended installation procedure where two or more pieces of Dec-Clad Drip Edge are required and come together is to overlap the Dec-Clad Drip Edge pieces where the ends would otherwise butt together. The recommended procedure will;

- Minimizes the long-term potential effects of expansion and contraction of Dec-Clad Drip Edge.
- Maintains the watertight integrity of the Dec-Tec System.
- Improves the overall appearance of the installation.
- Simplifies the installation procedure for the installer.

- 4.3.2.3 Layout Dec-Clad Drip Edge pieces onto the edge of the wood substrate where they are to be installed and overlap one piece over the other by 2".
- 4.3.2.4 Mark the hem (Drip Edge) on the bottom piece 2" in from the end with a pencil.
- 4.3.2.5 Using tin snips, cut a notch out of the hem from the edge of the piece to the pencil mark, (*Ref. Figure 09*).

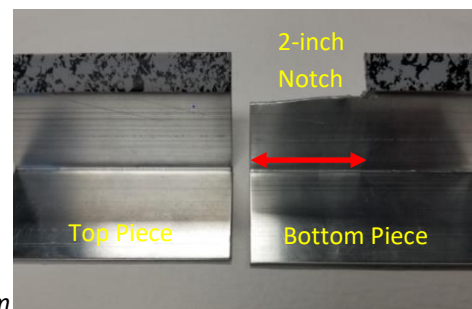


Figure 09 – Cut a notch out of the hem

- 4.3.2.6 Fit the notched piece back under the top piece and line up the butt ends of the hem on both pieces, (*Ref. Figures 10 and 11*).
- 4.3.2.7 Install both pieces of Dec-Clad Drip Edge onto the substrate using 1-1/4" to 1-1/2" standard roofing nails staggered at 6" intervals (maximum stagger).

4.3.2.8 Important – Do NOT apply any fasteners to the 2” overlapped section and be sure to leave at least 1” from the outside edge clean and free of nails to facilitate thermal heat welding of the membrane.

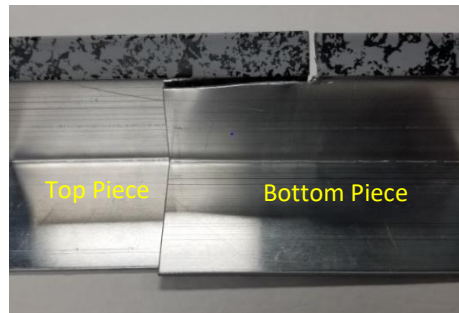


Figure 10 – View from Back



Figure 11 – View from Front

4.4 METAL OVERLAY – PRE-INSTALL DEC-CLAD KICKOUT

Dec-Clad Metal is utilized as overlay material to cover surfaces where the use of adhesives is not possible or as termination points for the Dec-Tec membrane where needed.

Dec-Clad Metal overlay options include, **Dec-Clad Drip Edge**, **Dec-Clad Kickout** and **Dec-Clad Sheet Metal**.

Dec-Clad Kickout (*Ref. Figure 12*) detail introduces one of the easiest and most efficient ways to terminate Dec-Tec membrane to vertical surfaces. Dec-Clad Kickout is fastened directly to an existing (finished) wall and the membrane is thermally heat welded to it. Dec-Tec sealant (Tremco 830) is then added between the top of the Kickout and wall to ensure waterproofing and a great aesthetic finish.

Features;

- 24 - gauge aluminum or G90 galvanized steel.
- PVC coated metal that makes welded terminations easy and watertight.
- Color matched to Dec-Tec membranes.
- Available in 8' long lengths, easily cut and fit on-site.
- Standard dimensions: 3" x 1/2" x 1/2"



Figure 12 – Dec-Clad Kickout

4.4.1 Considerations

- 4.4.1.1 Determine where Dec-Clad Kickout is to be installed.
- 4.4.1.2 Dec-Clad Kickout and Tremco 830 sealant is the recommended termination method for situations where it is impossible or impractical to get the Dec-Tec membrane under a finished surface of a wall. There are 3 typical scenarios for its application, concrete, brick and block.

There are 3 typical applications for this procedure,

- Concrete surfaces (*Ref. Detail Drawing TDD-006 – Concrete Siding Dec-Clad Kickout*).
- Brick surfaces (*Ref. Detail Drawing TDD-005 – Brick Siding Dec-Clad Kickout*).
- Block surfaces

4.4.2 Installation Procedure

- 4.4.2.1 Place a continuous bead of construction adhesive onto the backside of the Dec-Clad Kickout placing the adhesive where fasteners will penetrate the Dec-Clad Kickout when securing it to the wall.
- 4.4.2.2 Change / bend the lip on the Dec-Clad Kickout from the existing 45-degrees to an approximate 30-degree angle.

Tip – Changing the angle on the lip of the metal profile will reduce the size of cavity area where the caulking will be applied. This will result in less caulking and a reduced potential for expansion and contraction of the caulked area.

4.5 METAL OVERLAY – PRE-INSTALL DEC-CLAD SHEET METAL

Dec-Clad Sheet Metal (*Ref. Figure 13*) is available in 4' x 8' sheets that can be used as needed to create custom metal overlay material in the field to cover surfaces where the use of adhesives is not possible or as termination points for the Dec-Tec membrane where needed. In addition, to supplying 4' x 8' color matched stock sheets of Dec-Clad Sheet Metal, contractors can also choose to provide measurements and have Dec-Tec do the work for them.



Figure 13 – 4' x 8' Dec-Clad Sheet Metal

Dec-Clad Sheet Metal is used to fabricate many types of custom metal profiles to cover substrate surfaces. It is primarily used at perimeters as a termination point of the vinyl membrane.

4.5.1 Installation Procedure

- 4.5.1.1 Cover exposed dimensional lumber with Dec-Clad Sheet Metal. **“Where it makes sense to do so”.**

Tip - Due to the unpredictable shrink rates of dimensional lumber it may be a good idea to cover exposed dimensional lumber to compensate for the potential long-term effect of shrinkage.

- 4.5.1.2 Install Dec-Clad Sheet Metal to cover green treated wood.
- 4.5.1.3 Use Dec-Clad Sheet Metal to cover larger gaps at wall / floor transitions.
- 4.5.1.4 Use Dec-Clad Sheet Metal to fabricate custom “crickets” / diverters that install under the Dec-Tec membrane and are used to divert and channel water.

4.6 SUBSTRATE SURFACE PREPARATION

Substrate preparation is key! Every successful installation begins with a properly prepared substrate.

The entire substrate must be structurally sound, dry, solid, and stable. The substrate should be clean and free of dust, dirt, oil grease, paint, curing agents, sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

Use Dec-Tec’s Dec-Patch II to smooth minor surface variations and fill plywood joints and imperfections in the substrate such as voids and knots, (*Ref. Figure 14*).

Dec-Patch II is a high-performance, polymer modified, and fiber-reinforced cement-based patching compound. Its unique formulation mixes easily with water and produces an easy-to-apply patching compound. Dec-Patch II offers the best in filler capabilities combined with onsite workability and ease of mixing. The patch is a strong, cementitious material which once sanded, results in a smooth substrate contributing to a beautiful finished appearance.



Figure 14 – Deck Patch II

Features;

- Compatible with all Dec-Tec membranes and adhesives.
- Odorless, non-pigmented powder.
- Easy on-site preparation with water.
- Pails make transportation easy and clean. 10 lb. / 4.5 kg pail
- Mixes to a smooth, easily applied consistency. Creamy smooth texture trowels easily to create a defect-free surface.

4.6.1 Surface Preparation

- 4.6.1.1 Cut away any excess building wrap or building paper that from the surface of the substrate where Dec-Tec membrane is to be installed.
- 4.6.1.2 Repair any substrate damages or issues that exist.
- 4.6.1.2.1 Check for delamination or loose plywood that could cause issues such as springboard effect, (*Ref. Figure 15*).

- 4.6.1.2.2 Block underside of substrate with blocking to allow deep gouges to be filled with Dec-Patch II.
- 4.6.1.2.3 Check for loose splinters. Cut splinters out if possible.
- 4.6.1.2.4 Gaps should be covered over with Dec-Clad Metal if large enough or filled in with Dec-Patch II.



Figure 15 – Delamination

- 4.6.1.3 Sand all plywood joints and rows of fasteners with a floor edger or belt sander.
- 4.6.1.4 Install any necessary flashing or trim ensuring they will not impede the flow of water (recessing the Dec-Clad – Drip Edge using an electric planer is the recommended practice).
- 4.6.1.5 Fill in all plywood joints, knotholes, depressions, damaged areas as needed with Dec-Patch II.
- 4.6.1.6 Seal all darker colored knots with 2 coats of Zinsser Bin Shellac Based Primer Sealer.
- 4.6.1.7 Seal all manufacturer's synthetic patches on top of the substrate with 2 coats of Zinsser Bin Shellac Based Primer Sealer.
- 4.6.1.8 Seal all wood veneer patches, pitch pockets, pitch streaks, red chalk, ink, construction adhesive, wood filler, etc. with 2 coats of Zinsser Bin Shellac Based Primer Sealer.

4.6.2 Mix Dec-Patch II

- 4.6.2.1 Dry blend the powder mix as some segregation of components may occur during transportation.
- 4.6.2.2 Pour 1 part of clean, cool, potable water by volume into a clean mixing container (pail provided). Gradually add 2 parts of powder by volume while slowly mixing. This equates to approximately 2.5 U.S. qts. (2.37 L) of water per 10-lb. (4.54-kg) bag. **DO NOT OVERWATER**
- 4.6.2.3 Water temperature should not exceed 73°F (23°C). Higher water temperature will shorten the pot life of the mix.
- 4.6.2.4 Hand-mix or use a low-speed mixer and mix thoroughly to achieve a smooth, lump-free consistency. (similar to drywall mud)
- 4.6.2.5 Do not mix more than can be applied within 15 minutes.
- 4.6.2.6 Avoid air entrapment and prolonged mixing, which will shorten pot life.
- 4.6.2.7 Apply as soon as the Dec-Patch II is mixed.

4.6.3 Apply Dec-Patch II

- 4.6.3.1 Select an appropriate flat edged steel trowel.
- 4.6.3.2 Immediately apply the mixture to the substrate according to the desired thickness.

4.6.3.3 Blend into the surrounding area and finish to the required smoothness.

4.6.3.4 Limitations,

4.6.3.4.1 For exterior installations only.

4.6.3.4.2 Use only when the substrate temperature is between 50°F and 100°F (10°C and 38°C).

4.6.3.4.3 Do NOT use as a final wear surface.

4.6.3.4.4 Do NOT use under moisture mitigation systems. Apply only over completely dry substrates.

4.6.3.4.5 Pot life / Average working time: 16 to 22 minutes.

4.6.3.4.6 Allow 12 hours to cure (*cure times may vary due to temperature*).

4.6.4 Allow Dec-Patch II to dry.

4.6.4.1 Drying time can vary based on temperature, humidity, substrate porosity, thickness of application and jobsite conditions.

4.6.4.2 Dec-Patch II must be thoroughly hardened to accommodate proper application of Dec-Tec adhesives. Any residual moisture raises the potential for adhesive failures and/or the membrane to bubble.

Note: It is common to have “adhesive failures” in situations where Dec-Patch II is applied and then sanded down before fully drying out. The surface area of the patch appears to be dry but thicker areas have not fully cured.

4.6.4.3 Do NOT attempt to force dry Dec-Patch II or damp/wet substrates.

4.6.4.4 Sand all areas that Dec-Patch II was applied once it has “thoroughly” dried.

Making sure the substrate surface is smooth and ready to accept adhesives.

Tip - Recommend using a mechanical sander with 40-60 grit sandpaper for this procedure, (*Ref. Figure 16*).

4.6.4.5 Remove and blow off any excess debris and dust from the surface. All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants or particulates.

4.6.4.6 Use a broom or blower to clean off all debris. Do a final inspection to ensure the deck is suitable for the application of the Dec-Tec membrane.



Figure 16 – Sanding the deck surface

4.6.5 Clean-Up.

4.6.5.1 Clean tools and equipment with water while the product is still wet or damp.

5.0 INSTALLATION

With the pre-Installation work complete and the Dec-Patch II having had adequate time to dry and harden it's time to continue with the installation.

It is a good idea to start the installation process with the application of Dec-Tec solvent-based adhesive onto any vertical substrate and metal surfaces where the Dec-Tec membrane is to be directly installed.

5.1 ADHESIVES - GENERAL

Dec-Tec adhesives provide superior adhesion over the long term, are composed of the highest-quality raw materials, and are manufactured under strict production control. They are developed to meet the most stringent requirements of construction, building code and environment, and are required to obtain your Dec-Tec warranty.

Determine which Dec-Tec adhesives are required or are best suited for the project. Choosing the appropriate adhesive is dependent on several factors, such as;

- Horizontal vs vertical surface application.
- Temperature
- Humidity and Dew Point.
- VOC compliancy requirements.
- Size (square footage) of the installation

General rules of thumb to also consider, include;

- If it's hot and dry, adhesives set very fast.
- If it's hot and humid, water-based adhesives take much longer to set.
- If it's cool and dry, ensure you do not spread adhesives below temperature limitations.
- If it's cool and humid, adhesives may not work. Wait for better conditions!

5.2 WBA – WATER BASED ADHESIVE

Dec-Tec WBA 100 is a wet lay “high strength” adhesive designed exclusively for use on **horizontal surface applications**. WBA 100 offers excellent field workability and is compatible with all Dec-Tec membranes, (Ref. Figure 17).

Features;

- Coverage: 300 -390 sq. ft. / 28 -36 sq. m per pail
- Application temperature: Minimum 50°F / 10°C.
- Working Time: at 73°F / 23°C and 50% RH is 10-15 minutes
- Trowel on application.
- VOCs: 68 g/l (Low VOC = Low odor).



Figure 17 – WBA Adhesive & Supplied Trowel

5.2.1 Considerations

- 5.2.1.1 Plan your work carefully taking into consideration how much surface area you will be able to work with at one time. Remember, working time is normally 10-15 minutes at 73°F / 23°C and 50% RH (relative humidity).
- 5.2.1.2 All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants or particulates.
- 5.2.1.3 When possible, avoid applying Dec-Tec WBA 100 onto the substrate in extreme heat, direct sunlight or conditions that will contribute to rapid drying of the adhesive. Try to plan the timing of the application of WBA 100 during a cooler period of the day or when the application area is shaded.
- 5.2.1.4 WBA 100 is a wet lay adhesive. For optimum results it is best to install the field membrane IMMEDIATELY after application of the adhesive to allow maximum transfer of the adhesive from the substrate onto the back of the membrane.

5.2.2 Safety

- 5.2.2.1 Wear all appropriate PPE (Personal Protective Equipment) during use. Refer to the Material Safety Data Sheets (SDS's) for more information.

5.2.3 Application

- 5.2.3.1 Stir/mix adhesive thoroughly before applying.
- 5.2.3.2 Use the supplied 1/16" x 3/32" V-notched Trowel, (*Ref. Figure 18*) to spread the adhesive directly onto the substrate surface.
Important: Do NOT apply WBA 100 adhesive to the back side of the Dec-Tec membrane.

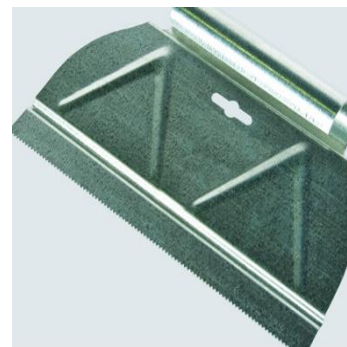


Figure 18 – V-Notched

Trowels function as metering devices for applying the right amount of adhesive in membrane installations. Trowels should be clean and dry to ensure sufficient adhesive coverage; dirty, clogged-up notches can lead to improper spread rates, poor bond performance and costly installation repairs. Always clean and wipe trowels dry after applying adhesive. Using abrasive techniques to remove dried adhesive can damage the trowel.

- 5.2.3.3 Spread the adhesive in a sweeping motion ensuring the trowel is at a slight angle to the surface. Do NOT "Float" the trowel. Do NOT allow any foreign matter, dirt or debris into the adhesive.
- 5.2.3.4 The adhesive once spread should be even and consistent with no puddles or other irregularities. Tip – The natural wood grain pattern on the substrate should still be visible through the adhesive once applied.

5.2.4 Limitations

- 5.2.4.1 Do NOT use Dec-Tec WBA 100 on vertical surfaces.
- 5.2.4.2 Do NOT apply in ambient temperatures outside of manufacturer specifications.
- 5.2.4.3 Do NOT use when the substrate temperature is below 50°F (10°C) or above 90°F (32°C).
- 5.2.4.4 Do NOT apply WBA 100 adhesive over damp or wet substrates.

- 5.2.4.5 Do NOT apply WBA 100 adhesive to the membrane seams or any surface areas that will require thermal heat welding.
- 5.2.4.6 Do NOT attempt to artificially or force dry damp or wet substrate surfaces.
- 5.2.4.7 Do NOT use adhesives to glue membrane seams together, all seams MUST be thermally heat welded.

5.3 SBA – SOLVENT BASED ADHESIVES

Dec-Tec provides 2 distinct types of solvent based adhesives, **SBA 100 R** and **SBA 200 VC**.

The adhesion characteristics of both products are very similar, and both have amazing grab qualities. SBA products are designed to easily and effectively adhere to Dec-Tec's quality membranes, Dec-Tec's preformed PVC accessories and metal surfaces.

Contractors can use either of Dec-Tec's solvent-based adhesives on all horizontal and vertical wood surfaces.

The primary difference between SBA 100R and SBA 200 VC is the VOC (volatile organic compounds) content. Dec-Tec SBA 200 VC has been formulated with EPA exempt solvents and has a VOC content of 0 g/L and is rated VC compliant, (Ref. Figure 19).

Contractors can use SBA 200 VC in geographic areas where VC compliancy is mandatory.

Figure 19 – VC Compliancy

	VOC's (g/l)	VC COMPLIANT
WBA 100	68	YES
SBA 100R	694.2	NO
SBA 200 VC	0	YES

Low VOC = Low odor

SBA – Solvent Based Adhesives

Features;

- Coverage: 50 -60 sq. ft. / 4.7 - 6.5 sq. m per gallon (when applied to substrate and backside of membrane)
- Application temperature: 34°F - 104°F / 1°C - 40°C
Able to use in colder temperatures (as compared to WBA 100).
- Roll or brush on application
- Outstanding grab characteristics
- Designed for use on horizontal or vertical surfaces.
- Designed for use with wood or metal surfaces with the same performance.
- SBA 100R (only) is tinted with a red dye to help visibly assure there is a full coat application.
- VOC Content:
 - SBA 100R = 694.2 g/l
 - SBA 200VC = of 0 g/L

5.3.1 Considerations

- 5.3.1.1 Determine which surface areas will require coating(s) of Dec-Tec Solvent Based Adhesive. (SBA 100R or SBA 200 VC).

This is typically, all of the vertical wood surfaces as SBA adhesives MUST be used on all vertical surfaces and the horizontal substrate surfaces if use of SBA was chosen over WBA adhesive (contractors' choice).

- 5.3.1.2 All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants or particulates.
- 5.3.1.3 Ensure there is an adequate application coat applied. No missed application spots and a thick enough application.
 - 5.3.1.3.1 As a general rule of thumb Dec-Tec recommends a 2 - coat application when using SBA adhesives to ensure adequate coverage. Be aware that different species of wood have different absorbency characteristics. Softer species of wood will absorb more adhesive than harder species of woods. While 1 coat is generally sufficient, you may need to touch up areas that have absorbed more than other areas. Two coats will always ensure adequate coverage.
- 5.3.1.4 Always allow SBA adhesive to completely dry when applying it to vertical substrate surfaces. Applying SBA adhesive to all vertical substrate surfaces early in the installation process provides the necessary time for the adhesive to fully dry while other installation activity is taking place.

5.3.2 Safety

- 5.3.2.1 Wear all appropriate PPE (Personal Protective Equipment) during use. Refer to the Material Safety Data Sheets (SDS's) for more information.
- 5.3.2.2 Precautions should be taken to prevent odors / vapors from entering the building/structure when using solvent based adhesives, including turning off and sealing air intake vents and other means of ingress during product application and cure.

5.3.3 Mixing

- 5.3.3.1 Mix well before use.

5.3.4 Application

- 5.3.4.1 Using a medium nap, solvent resistant paint roller or brush, apply an initial coat of SBA adhesive to the substrate (if you have selected SBA rather than WBA adhesive for the horizontal surfaces), all vertical walls and post if applicable and then allow the adhesive to fully, 100% dry.

Important: Make sure the SBA adhesive applied to the substrate, vertical walls and post is completely dry prior to the mating of the membrane. The adhesive should be in a completely cured, hard state and must not feel rubbery.
- 5.3.4.2 If required, (to ensure adequate coverage) apply a secondary coat of SBA adhesive to the substrate, vertical walls or post and allow to dry.
- 5.3.4.3 Once the adhesive applied to the substrate, vertical walls and posts (if applicable as described above has dried, you can use a medium nap, solvent resistant paint roller or brush, and apply SBA adhesive to the back side of the Dec-Tec membrane and allow it to become tacky (producing strings) when touched with a dry finger.

- 5.3.4.4 The SBA adhesive applied to the Dec-Tec membrane should NOT be permitted to dry completely. The Dec-Tec membrane is then placed onto the surface of the substrate (mating adhesive surfaces).
- 5.3.4.5 The bonded sheet should be pressed firmly in place using either Dec-Tec's 3 in 1 membrane roller, 40mm silicone rubber hand roller or other appropriate tool, rolling it in two directions to work out any trapped air bubbles.

5.3.5 Limitations

- 5.3.5.1 Do not apply in wet weather or to a damp or wet surface.
- 5.3.5.2 Open time varies depending on weather and temperature conditions. Open time will be shorter on hot days and longer on cold dry days.
- 5.3.5.3 Do NOT apply adhesive to any Dec-Clad surfaces that the Dec-Tec membrane will be thermally welded to.
- 5.3.5.4 Do NOT apply in temperatures outside of manufacturer specifications.
Application temperature: 34°F - 104°F / 1°C - 40°C
- 5.3.5.5 Shelf life: 12 months if stored properly in original unopened, sealed and undamaged packaging.
- 5.3.5.6 Storage Conditions: Store materials in a dry area between -4°F (-20°C) and 86°F (30°C) with careful handling to prevent damage to products.
- 5.3.5.7 Unused adhesive can be saved for use at a later date by simply replacing the pail cover.

5.4 DRY FITTING THE DEC-TEC MEMBRANE

- 5.4.1 Measure in 75" from outside edge of the Dec-Clad – Drip Edge and snap a chalk line (This will provide for a 1" overhang).
- 5.4.2 Measure the length of the deck and add 6" (minimum) for each sidewall (if applicable). Check local building codes or specifications to determine sidewall requirements.
- 5.4.3 Check membrane for color and dye issues prior to cutting or applying adhesives.
- 5.4.4 Check membrane for imperfections. Examples, missing print along edge of roll, wrinkles etc.
- 5.4.5 Cut the field membrane to the desired length and dry fit it into place.

Outside Corners:

If the membrane panel needs to navigate around an outside corner, it can be dry fitted by cutting the membrane at a 45° angle allowing it to fall around the corner. This will leave a "V" space at the corner, (*Ref. Figure 20*). There are other acceptable methods to accommodate this procedure that can be used (depending on where the edge of the field membrane is in relation to the outside corner).



Figure 20 – Fitting an Outside Corner

Inside Corner:

To dry-fit the membrane at inside corner locations, gather the excess membrane material in the corner and fold it to form a triangle (commonly referred to as a pig's

ear). Form fit the membrane (pig's ear) as tight as possible into the corner, (*Ref. Figure 21*). It would be advantageous at this time to determine the direction you will fold the pigs ear onto the wall where it will be thermally heat welded.



Figure 21 – Fitting an Inside Corner (Pigs Ear Detail)

Posts:

To dry-fit the membrane around a fixed post or other obstacle that cannot be removed or detached from the surface (example, outside fireplace) you will need to cut the field membrane from an edge inward to allow the membrane to wrap around the post and sit flat, (*Ref. Figure 22*). Determine the best location to cut the membrane considering visibility of seams. Use a straight edge to mark and cut the field membrane creating a clean, straight cut edge as close to the base of the post or obstacle as possible



Figure 22 – Fitting around a Post

Door Sills / Thresholds:

Design and dry fit the Dec-Tec field membrane to continuously run up the wall and wrap over and beyond the sill plate for a few inches, (*Ref. Technical Detail Drawing - Door Sill Detail TDD-011*).

5.5 INSTALL DEC-FLASH AT DECK CORNERS

Prefabricated 6" Dec-Flash is used to terminate field membrane onto the substrate at intersection points where the surface of the deck meets up with a wall, (*Ref. Detail Drawings TDD-009- Dec-Corner Detail: Perpendicular and TDD-010 -Dec-Corner detail: Parallel*).

- 5.5.1 Cut and trim a 6" Dec-Flash to the desired size and dry-fit it at the deck/wall intersection.

- 5.5.2 Ensure previously applied SBA adhesive that was applied to the wall surface has completely dried.
- 5.5.3 Apply SBA adhesive to the backside of the Dec-Flash.
- 5.5.4 Allow the adhesive to become tacky (producing strings) when touched with a dry finger. Do NOT allow the adhesive on the Dec-Flash to dry completely.
- 5.5.5 Be careful NOT to apply any adhesive to the surface on the backside of the Dec-Flash that will be thermally heat welded to the Dec-Clad Drip Edge.
- 5.5.6 Do not apply adhesive to the backside portion of the Dec-Flash that will rest up against the wall from the level of the surface of the deck to the bottom edge of the Dec-Flash. This will eventually allow building paper to slip underneath the flash when the exterior finish is applied to the wall (by others).
- 5.5.7 The Dec-Flash is then installed in place (mating adhesive surfaces).
- 5.5.8 The bonded Dec-Flash is firmly pressed in place ensuring a smooth aesthetical finish in the transition area between the horizontal and vertical surfaces.
- 5.5.9 Vertical surface areas are to be hand-rolled using a Silicone Rubber Hand Roller (40mm wide).
- 5.5.10 Thermally heat weld the Dec-Flash corner onto the horizontal and vertical surfaces of the Dec-Clad Drip Edge.

5.6 INSTALL DEC-TEC MEMBRANE ONTO HORIZONTAL SUBSTRATE

Temperature and panel length are the two main considerations that need to be factored into determining the appropriate (optimal) size of the sections that can be installed at one time. Once determined and the WBA 100 adhesive has been applied to the substrate, the Dec-Tec membrane can be installed as follows,

- 5.6.1 Immediately after applying the WBA 100 adhesive onto a manageable section of the substrate, roll out the membrane directly into the fresh, wet adhesive.
Tip - Have your Dec-Tec membrane pre-fit and rolled back.
 - 5.6.1.1 One technique that can be used is to roll back the field membrane (lengthwise). Leaving approximately 4' -6' rolled out (flat), this will be the starting end. Apply WBA 100 in front of the roll in approximate 3' sections in hot conditions and up to a maximum of 20' sections if weather conditions are optimal.
 - 5.6.1.2 An alternate technique that can be used to accommodate a section by section installation is to fold up or "Butterfly" the membrane into manageable sections.
- 5.6.2 Watch carefully and stop the application if necessary, to replace any adhesive that has flashed off or skinned over.
- 5.6.3 Do NOT allow any adhesive in seam overlap areas or onto the top surface of the membrane.
- 5.6.4 Do not allow Dec-Tec membrane to come into contact with any incompatible materials, such as: bituminous based roofing and waterproofing products, oils, solvents, etc.
- 5.6.5 Check the membrane often to ensure proper transfer of adhesive onto the back side of the membrane.
- 5.6.6 Roll out any trapped air using a 3 in 1 vinyl floor roller. Firmly press the membrane into the adhesive ensuring full contact and elimination of all trapped air.
- 5.6.7 Be careful not to roll out the adhesive onto any Dec-Clad metal surfaces. Roll the membrane by starting in the middle and working your way to the outside of the panels,

either way, to eliminate any trapped air before the adhesive has a chance to set up. This MUST happen while the adhesive is still at its wettest point. Don't go for a coffee break right now!

- 5.6.8 Repeat the above steps until the entire panel is fully installed into the adhesive. The recommended practice is to complete the installation panel by panel and section by section applying applicable adhesives, rolling out bubbles and completing the associated heat/seam welds. This can help break monotony on larger projects and more importantly help avoid certain risks such as wind picking up and creating havoc with panels that are not fully secured.
- 5.6.9 Thermally heat weld the field membrane onto the Dec-Clad Drip Edge. This will require 2 passes with the thermal heat welder, (Ref. Figure 23).
- 5.6.10 The first pass (the pre-weld) is accomplished by thermally heat welding the field membrane onto the first 1 to 1-1/4 inches of the Dec-Clad Drip Edge whereby leaving the outer 3/4 inches of the Dec-Clad Drip Edge and field membrane un-welded. The thermal heat welder is used in conjunction with the silicone rubber hand roller (40mm wide) to accomplish this step. The thermal heat welder is held at an approximate 45° angle to the un-welded seam. As little separation as possible is consistently maintained between the tip of the welder and the edge of the hand roller as both move along and work together in unison to complete the first pass (pre-weld).
- 5.6.11 With the first pass (the pre-weld) completed we can move onto the second and final pass to thermally heat weld the remaining 3/4 inches of the Dec-Clad Drip Edge and field membrane. Once again, the thermal heat welder is held at an approximate 45° angle to the un-welded seam. For this pass, a separation of approximately 1" is consistently maintained between the tip of the thermal heat welder and the edge of the hand roller as both move along and work together in unison to complete the weld.

Figure 23 - Thermally heat welding the field membrane onto the Dec-Clad Drip Edge



- 5.6.12 Trim off any excess field membrane from the Dec-Clad Drip Edge flush at the outside edge of the deck.
- 5.6.13 Be careful, take the necessary time to get a feel for your technique with this finishing detail to maximize the aesthetic value of the installation.
- 5.6.14 Tip – Use a good quality utility knife with a fresh blade laying the blade flat against the edge of the Dec-Clad Drip Edge as you cut, using your fingers as a guide to hold this material down on the metal as you are cutting it off flush.
- 5.6.15 Try to avoid tipping the blade up as this often leads to scoring the PVC coating on the metal.

5.7 INSTALL DEC-TEC MEMBRANE ONTO HORIZONTAL SUBSTRATE – MULTI-PIECE

The majority of projects require more than one panel of membrane to be installed. It is important to understand what to look for and how to properly install multiple panels that run in parallel to each other.

With the initial panel of field membrane fully installed (*Ref. Sec 5.6*), the adjoining multi-piece panel can be laid out and installed as follows;

- 5.7.1 Dec-Tec panels running in parallel to each other are thermally heat welded together incorporating a 2" overlapping seam.
- 5.7.2 Measure back 2" from the edge of the previously installed membrane and lightly mark with a pencil. Do this at a few locations along the length of the piece, (*Ref. Figure 24*).



Figure 24 - Mark 2" from edge

- 5.7.3 Measure and determine the width and length requirements for next (multi-piece) panel.
 - 5.7.3.1 Width Measurement - add 2" to compensate for overlap onto the previously installed piece of Dec-Tec membrane
 - 5.7.3.2 Width Measurement - add an additional 6" (minimum) to compensate for membrane that will go up the wall surface.
 - 5.7.3.3 Length Measurement - add 6" (minimum) for "each" side wall.
- 5.7.4 Before cutting the panel,
 - 5.7.4.1 Check the membrane for any dye lot issues or imperfections.
 - 5.7.4.2 Ensure the direction arrows that can be found along the backside edge of Dec-Tec membrane panels are pointing in the same direction as the previously installed panel, (*Ref. Figure 25*).



Figure 25 - Directional Arrows

- 5.7.5 Cut the multi-piece panel as desired and dry fit it into place.

- 5.7.5.1 Align the edge of new panel (*Ref. Figure 26*) so that it is overlapped onto the previously piece and flush with the pencil marks.



Figure 26 - 2" Overlap

Outside Corners:

If the panel needs to navigate around an outside corner, it can be dry fitted by cutting the membrane at a 45° angle allowing it to fall around the corner. This will leave a "V" space at the corner, (*Ref. Figure 20*). There are other acceptable methods to accommodate this procedure that can be used (depending on where the edge of the field membrane is in relation to the outside corner).

Inside Corners:

To dry-fit the membrane at inside corner locations, gather the excess membrane material in the corner and fold it to form a triangle (*referred to as a pig's ear*). Form fit the membrane as tight as possible into the corner, (*Ref. Figure 21*). It would be advantageous at this time to determine the direction you will fold the pig's ear onto the wall where it will be thermally heat welded.

Posts:

To dry-fit the membrane around a fixed post or other obstacle that cannot be removed or detached from the surface (*example, outside fireplace*) you will need to cut the field membrane from an edge inward to allow the membrane to wrap around the post and sit flat, (*Ref. Figure 22*). Determine the best location to cut the membrane considering visibility of seams. Use a straight edge to mark and cut the field membrane creating a clean, straight cut edge as close to the base of the post or obstacle as possible.

- 5.7.6 Roll or fold the membrane back exposing a manageable section of the horizontal substrate and apply Dec-Tec WBA 100 adhesive.
- 5.7.7 Roll the membrane into adhesive making sure it lines up with the pencil marks on the previously installed section. Repeat this for the remainder of the panel.
- 5.7.8 Once the horizontal portion of the panel is fully adhered, roll it out using a 3 in 1 vinyl floor roller being sure to roll length wise and width wise. This will ensure adhesion and removal of any trapped air.

5.8 INSTALL DEC-TEC MEMBRANE ONTO VERTICAL SUBTRATE

- 5.8.1 Ensure the Dec-Tec solvent-based adhesive that was previously applied to the vertical substrate surfaces has dried completely.
- 5.8.2 Apply a generous coat of solvent based adhesive to the backside of the membrane that will attach to the wall and allow it to become tacky (producing strings) when touched

with a dry finger, (*Ref. Figure 27*). Do NOT allow the adhesive on the membrane to dry completely.



Figure 27 – Solvent Based Adhesive “Producing Strings”

- 5.8.3 Gently fold/crease the membrane at the wall /deck intersection to create a clean visual transition.
- 5.8.4 The membrane is then placed up the wall onto the vertical substrate (mating adhesive surfaces).
- 5.8.5 The bonded sheet shall be pressed firmly in place and hand rolled to remove any trapped air and promote a good, healthy bond.
- 5.8.6 Optional: Install a 2”- 3” piece of foil tape (or similar) along the top edge of the membrane to protect it from water intrusion if the wall is going to remain exposed for any length of time (where building paper and siding will not be applied by others immediately).

5.9 INSTALL DEC-TEC MEMBRANE ONTO DEC-CLAD KICKOUT

The use of Dec-Clad Kickout and Dec-Tec sealant (Tremco 830) is the recommended termination method at locations where it is impossible or impractical to get the membrane under a finished (Brick, Block or, Cement) surface of a wall. The Dec-Clad Kickout is installed as part of the pre-installation preparation work.

The method of terminating the Dec-Tec membrane onto a vertical surface where Dec-Clad Kick-out is installed is as follows,

- 5.9.1 Gently fold/crease the membrane at the wall /deck intersection to create a clean visual transition, the membrane is placed up onto the Dec-Clad Kick-out with a manageable amount of excess overhanging the top edge.
- 5.9.2 Thermally heat weld the membrane onto the Dec-Clad Kickout.
- 5.9.3 Cut off and trim excess membrane material.
- 5.9.4 Apply a bead of Tremco 830 sealant along the top of the Dec-Clad Kickout.

5.10 INSTALL DEC-TEC MEMBRANE AT AN INSIDE CORNER

An inside corner is described as the intersection where 2 walls meet forming an angle of less than 180-degrees. Typically, a 90-degree angle.

The method of terminating the Dec-Tec membrane at an inside corner is as follows,

- 5.10.1 Gather excess membrane material in the corner and fold it to form a triangle (referred to as a pig's ear).
- 5.10.2 Form fit the membrane as tight as possible into the corner. It would be advantageous at this time to determine which direction (wall surface) you will ultimately be thermally heat welding the pig's ear onto.



Figure 28 – Sealing the Pigs Ear



Figure 29 – Thermally heat welding the Pigs Ear to the Wall

- 5.10.3 Thermally heat weld the inside of the pig's ear together making sure it is sealed. Try to keep the membrane fit as tight as possible into the corner while doing this, (Ref. Figure 28).
- 5.10.4 Hand roll the pigs ear as you thermally heat it to remove any trapped air and to keep the detail as flat and as aesthetically uniform as possible).
- 5.10.5 Fold the pigs ear towards the surface of the wall (left or right) and heat weld it tight to the wall, (Ref. Figure 29).
- 5.10.6 Cut off and trim any excess material.

5.11 INSTALL DEC-TEC MEMBRANE ONTO DOOR SILLS / THRESHOLDS

Dec-Tec membrane and prefabricated Dec-Flash are used to provide critical leak point protection and simplify the installation of Dec-Tec Membrane at door sill / threshold locations, (Ref. Figure 30).

The method of terminating the Dec-Tec membrane onto a door sill where the door is not installed (new construction) is as follows, (Ref. Detail Drawing TDD-011 - Door Sill Detail).

- 5.11.1 Adhere the membrane to the wall using solvent based adhesive and hand roll it using a 40mm wide silicone hand roller.
- 5.11.2 Cut the membrane vertically at edge of the door sill and fold the membrane over onto the sill plate (threshold).
- 5.11.3 Adhere the membrane onto the sill plate using solvent based adhesive and hand roll to remove any trapped air.



Figure 30 – Typical Threshold
Detail using Dec-Flash

5.12 INSTALL DEC-FLASH ONTO DOOR SILLS / THRESHOLDS

Pre-manufactured flashings (Dec-Flash) is used to provide critical leak point protection and simplify the installation of Dec-Tec Membrane onto door sill locations. The unique design allows the installer to use a single 6" Dec-Flash that can be cut in half to create two door sill corners. In addition, custom sized prefabricated Dec-Flash is also available to contractors to accommodate special situations, (*Ref. Detail Drawing TDD-011 - Door Sill Detail*).

- 5.12.1 Cut and trim a 6" Dec-Flash in half. This will create a left and right corner patch that can be used to complete the sill / threshold detail.
- 5.12.2 Coat the appropriate areas on the back of Dec-Flash with solvent based adhesive. Do NOT apply adhesive to any surfaces that will require thermal heat welding.
- 5.12.3 Allow the solvent based adhesive on the Dec-Flash to become stringy (tacky) to touch and then install it in place, (*Ref Figure 27*).
- 5.12.4 Use Dec-Tec's silicone hand roller to remove any trapped air.
- 5.12.5 Thermally heat weld the applicable remaining seams on the Dec-Flash to the surrounding membrane.
- 5.12.6 Repeat the process on the opposite side of threshold.
- 5.12.7 Other trades / contractor, following up on the installation of the door will place a run of continuous caulking onto the membrane and under the door plate when the door is installed

5.13 INSTALL DEC-FLASH ONTO POSTS

Tight working areas now pose less of a problem and there is no need to worry about leaks at critical points. Get the job done quicker and be confident that your details are watertight!

Prefabricated color matched membrane flashings (Dec-Flash) provide critical leak point protection and simplifies the installation for any contractor. The unique design of the 6" Dec-Flash allows the installer, using either a single or pair of units, to provide a variety of flashing solutions.

Use two standard Dec-Flash to fully "Wrap" or "Boot" a typical wood column post or column. This will save valuable time on the installation, provide a clean, consistent, and professional look and finish and ensure added confidence that the detail is watertight, (*Ref. Detail Drawing TDD-015 - Post / Column Wrap Detail*).

Custom Dec-Flash

Custom sized prefabricated Dec-Flash is also available to contractors to accommodate any situations where the standard sizes won't fit. Examples include round or irregularly shaped posts or larger dimensioned posts.

Features,

- Faster Installation
- Helps ensure watertight details and reduces potential for leaks at critical points
- Provides a consistent quality finish
- Eliminates producing flashings on-site
- Matching colors to Dec-Tec membranes
- Available in standard 4" and 6" dimensions (sold in single units)
- Custom fabrication available.

The recommended method of installing Dec-Flash at post locations is to install Dec-Flash after installing the Dec-Tec field membrane. This method involves thermally heat welding the horizontal tab of the Dec-Flash onto the top of the Dec-Tec field membrane.

- 5.13.1 Layout, trim and dry-fit the Dec-Flash around the post. Mark the areas on the backside of the Dec-Flash that will require a coating of Dec-Tec's solvent-based adhesive.
- 5.13.2 Ensure previously applied solvent-based adhesive that was applied to the posts earlier is dry.
- 5.13.3 Apply solvent-based adhesive to the applicable areas on the back side of the Dec-Flash. Caution: Be careful NOT to apply any adhesive on surfaces of the Dec-Flash that will require thermal heat welding.
- 5.13.4 Allow the solvent based adhesive to become tacky (producing strings) when touched with a dry finger, (*Ref Figure 27*).
- 5.13.5 The Dec-Flash is then installed onto the post (mating adhesive surfaces).
- 5.13.6 The bonded Dec-Flash is then pressed firmly in place ensuring a smooth aesthetical finish in the transition area between the horizontal and vertical surfaces.
- 5.13.7 Vertical surface areas are to be hand-rolled using a Silicone Rubber Hand Roller (40mm wide).
- 5.13.8 Thermally heat weld the remaining overlapping surfaces of the Dec-Flash and the Dec-Tec field membrane to complete the detail.

5.14 INSTALL DEC-FLASH AT AN OUTSIDE CORNER

An outside corner is described as the intersection where 2 walls meet forming an angle greater than 180-degrees. Typically, a 270-degree angle.

Dec-Tec pre-manufactured flashings (Dec-Flash) are used to simplify the installation and provide critical leak point protection. The unique design allows the installer to use a single 6" unit that can be cut to create the outside corner detail. Custom sized prefabricated Dec-Flash are also available to contractors to accommodate any situations where the standard sizes won't fit, (*Ref. Figure 31*).

Features;

- Faster installation saving valuable time.
- Provides a clean, consistent, and professional look and finish at every outside corner.
- Provides critical leak point protection and added confidence that the detail is watertight.



Figure 31 – Dec-Flash

- 5.14.1 The recommended method of installing Dec-Flash at an outside corner is to install the Dec-Flash “after” installing the Dec-Tec field membrane. This method involves heat welding the horizontal tab of the Dec-Flash onto the top of the Dec-Tec field membrane.
- 5.14.1.1 Layout, trim and dry-fit the Dec-Flash at the outside corner location ensuring a good fit.
- 5.14.1.2 Ensure previously applied solvent based adhesive that was applied to the vertical substrate is dry.
- 5.14.1.3 Apply solvent based adhesive to the applicable area on the back side of the Dec-Flash (vertical surface area). Caution: be careful NOT to apply any adhesive on surfaces of the Dec-Flash that will require heat welding (horizontal surface area).
- 5.14.1.4 Allow the solvent based adhesive to become tacky (producing strings) when touched with a dry finger. Do NOT allow the solvent based adhesive on the Dec-Flash to dry completely, (*Ref Figure 27*).
- 5.14.1.5 The Dec-Flash is then installed into place (mating adhesive surfaces).
- 5.14.1.6 The bonded Dec-Flash is then pressed firmly into place ensuring a smooth aesthetical finish in the transition area between the horizontal and vertical surfaces.
- 5.14.1.7 Vertical surface areas are to be hand-rolled using a Silicone Hand Roller.
- 5.14.1.8 Heat weld the overlapping surfaces of the Dec-Flash and the Dec-Tec field membrane to complete the detail.

5.15 FINAL CHECKS

Upon completion of the project, take time to go over the entire installation. Make sure nothing was missed or overlooked and the quality of workmanship is to the standard that is expected.

- 5.15.1 Use Dec-Tec’s “Seam Checker” to ensure that all seams are properly welded.
- 5.15.2 Ensure all welded terminations to Dec-Clad metal surfaces are good.
- 5.15.3 Ensure all accessory flashings (Dec-Flash) are properly welded using a seam checker.
- 5.15.4 Ensure that all special details such as drains, or scuppers are properly installed.
- 5.15.5 Trim off any excess materials.
- 5.15.6 Look for any weak spots where water could possibly infiltrate the system.

- 5.15.7 Make sure the deck is clean.
- 5.15.8 Ensure all excess materials and waste is removed from the site.

6.0 APPENDIX A – CONTRACTORS CHECKLISTS

6.1 GENERAL CHECKLIST

- ☐ Always check local building code requirements and standards
- ☐ Confirm intended use for products. Follow instructions on product labels.
- ☐ Follow all safety precautions. Use gloves, goggles, ear protection, safety boots and respiratory protection.
- ☐ Use extreme caution when working with power tools.
- ☐ Follow the instructions printed in this installation guide.
- ☐ On new construction, to avoid damage, always cover the Dec-Tec membrane with a protective surface after membrane is installed and prior to occupancy.

6.2 TOOLS & SUPPLIES CHECKLIST

- | | |
|--|---|
| ☐ Handheld thermal welder * <ul style="list-style-type: none">▪ 20mm nozzle *▪ 90° nozzle * | ☐ Tape measures |
| ☐ Silicone rubber hand roller (40mm wide) * | ☐ Chalk line |
| ☐ Extendable vinyl floor roller, 8"* | ☐ Small Crowbar (12") |
| ☐ V-notch trowel (1/16" x 3/32") * | ☐ Claw hammer |
| ☐ Shears (industrial scissors) * | ☐ Level (4') |
| ☐ Seam tester / probe * | ☐ Straightedge (8') |
| ☐ Wire brush * | ☐ Caulking Gun |
| ☐ Digital moisture meter (pin type preferred) | ☐ Broom or leaf blower |
| ☐ 3-1/4" portable electric hand planer | ☐ Razor utility knife <ul style="list-style-type: none">▪ Spare blades |
| ☐ Angle grinder (7") <ul style="list-style-type: none">▪ backup pad▪ 36-60 grit sanding discs | ☐ Putty knife (3" - 4") |
| ☐ Wood Chisel (1") | ☐ Carpenters pencil / china marker |
| ☐ Tin Snips | ☐ Extension cord |
| ☐ 3/8" reversible drill <ul style="list-style-type: none">▪ Basic drill bit set▪ Masonry drill bit set▪ Screwdriver bit set | ☐ Solvent resistant paint brushes (3" - 4") |
| | ☐ Medium nap solvent resistant paint rollers |
| | ☐ Masking tape (2") |
| | ☐ Roofing nails (1-1/4") |
| | ☐ Water bucket/pail |
| | ☐ Rags |
| | ☐ Safety protection |

* Available from Dec-Tec

6.3 MATERIAL STORAGE & HANDLING

Dec-Tec Membranes

- 6.3.1 Kept clean and stored in cool/dry environment.
- 6.3.2 Absorption of moisture can affect the weld quality.
- 6.3.3 Recommend tarping if being stored for any length of time.

- 6.3.4 Store horizontally on cardboard rolls.
- 6.3.5 Do NOT store upright on the edge of a roll.
- 6.3.6 Do NOT store anything else on-top of rolls.

Dec-Patch II

- 6.3.7 Storage conditions: 12 months when stored in original packaging at 73°F (23°C) in a dry area.

Dec-Tec Adhesives

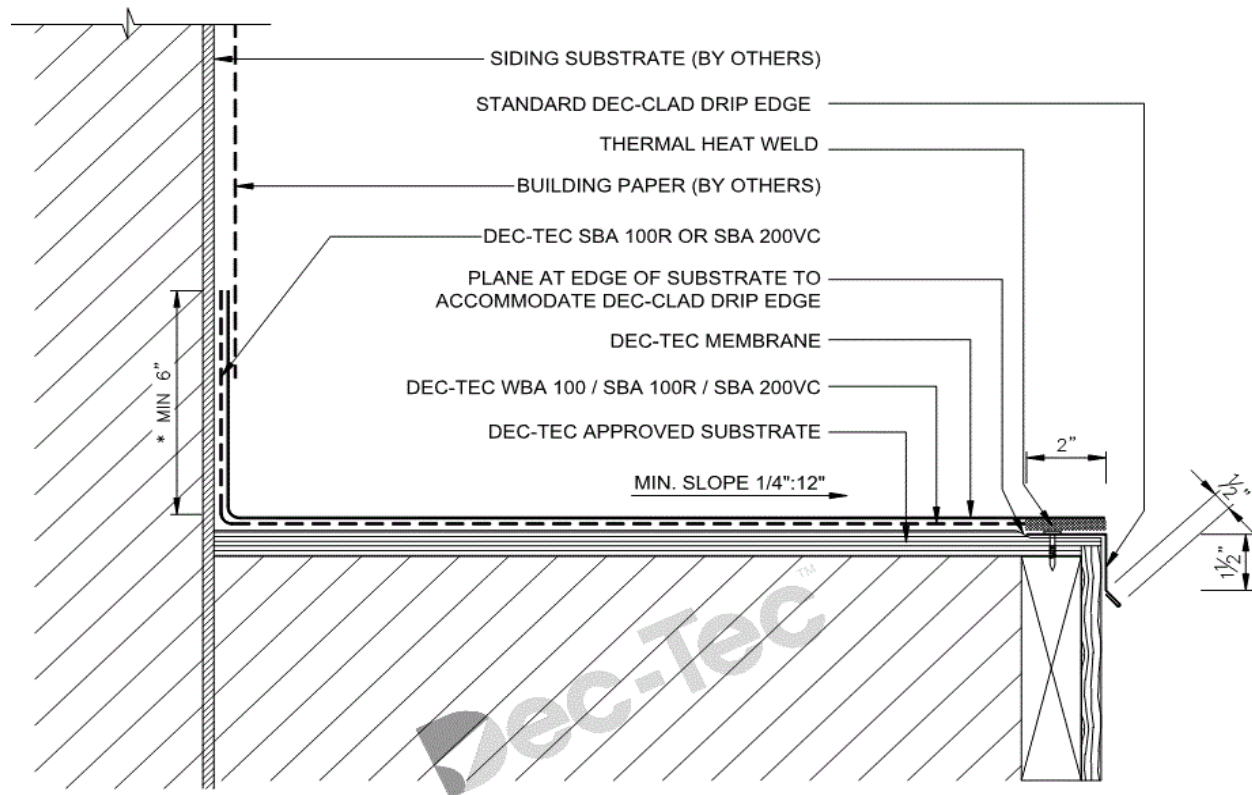
- 6.3.8 WBA 100 (Water Based Adhesive)
 - 6.3.8.1 Shelf life: 12 months when stored in original, unopened packaging at 73°F / (23°C)
 - 6.3.8.2 Unused adhesive can be saved for use at a later date by simply replacing the pail cover.
 - 6.3.8.3 Any WBA 100 adhesive subjected to freezing must be discarded
- 6.3.9 SBA 100R & SBA 200VC (Solvent Based Adhesive)
 - 6.3.9.1 Shelf life: 12 months if stored properly in original unopened, sealed and undamaged packaging.
 - 6.3.9.2 Storage Conditions: Store materials in a dry area between -4°F (-20°C) and 86°F (30°C).
 - 6.3.9.3 Unused adhesive can be saved for use at a later date by simply replacing the pail cover.

7.0 APPENDIX B – DETAIL DRAWINGS

7.1 TDD-001 DECK DETAIL: TYPICAL



SKYLINE BUILDING SYSTEMS INC.
261185 WAGON WHEEL WAY
ROCKY VIEW, AB T4A 0E2
1-866-461-3914 | WWW.DEC-TEC.COM



DECK DETAIL : TYPICAL

NOTES:

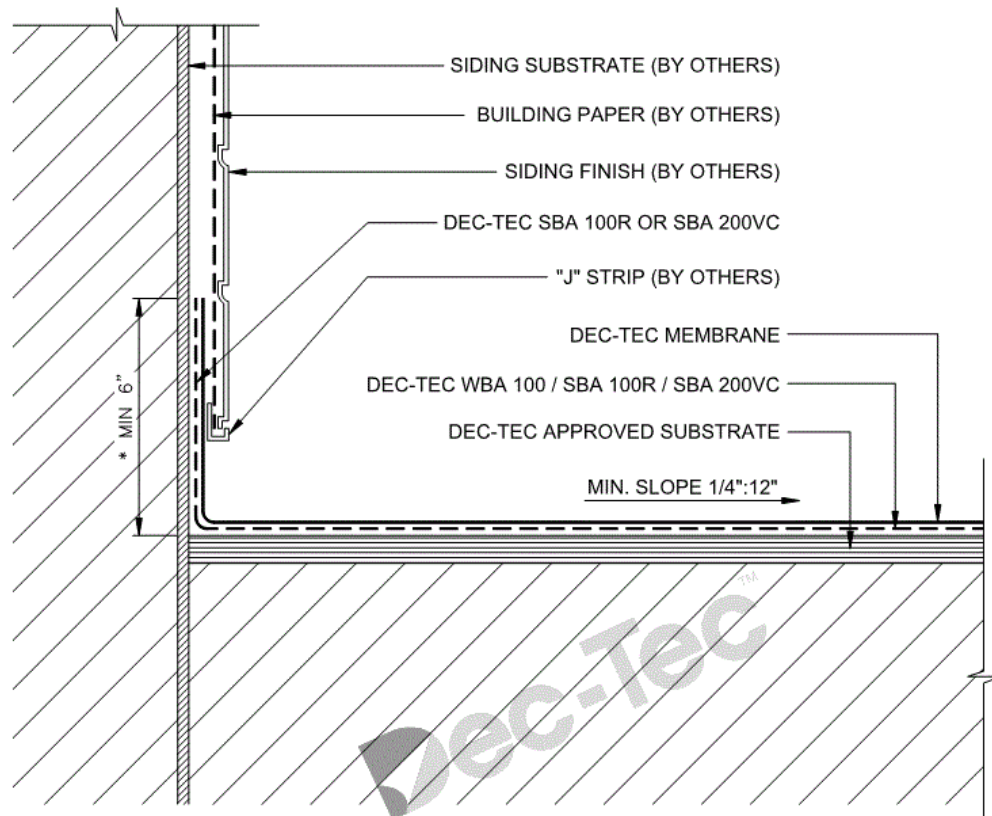
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH DEC-TEC INSTALLATION GUIDE, REFERENCE CM001.
2. DRAWINGS NOT TO SCALE.
3. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
4. SKYLINE BUILDING SYSTEMS INC. DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, QUANTITIES OR DIMENSIONS. THE ARCHITECT, CONTRACTORS OR OWNER'S REPRESENTATIVE MUST VERIFY ALL DIMENSIONS, SIZES AND SUITABILITY OF DETAILS.
5. THIS DRAWING IS THE PROPERTY OF SKYLINE BUILDING SYSTEMS INC. AND MAY NOT BE REPRODUCED WITHOUT WRITTEN CONSENT.
6. VISIT WWW.DEC-TEC.COM OR CALL 1-866-461-3914 FOR ADDITIONAL INFORMATION.
- * MUST CONSULT LOCAL BUILDING CODE AND CONFORM TO BE COMPLIANT.

TDD001

7.2 TDD-002 DECK DETAIL: VINYL SIDING



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DECK DETAIL : VINYL SIDING

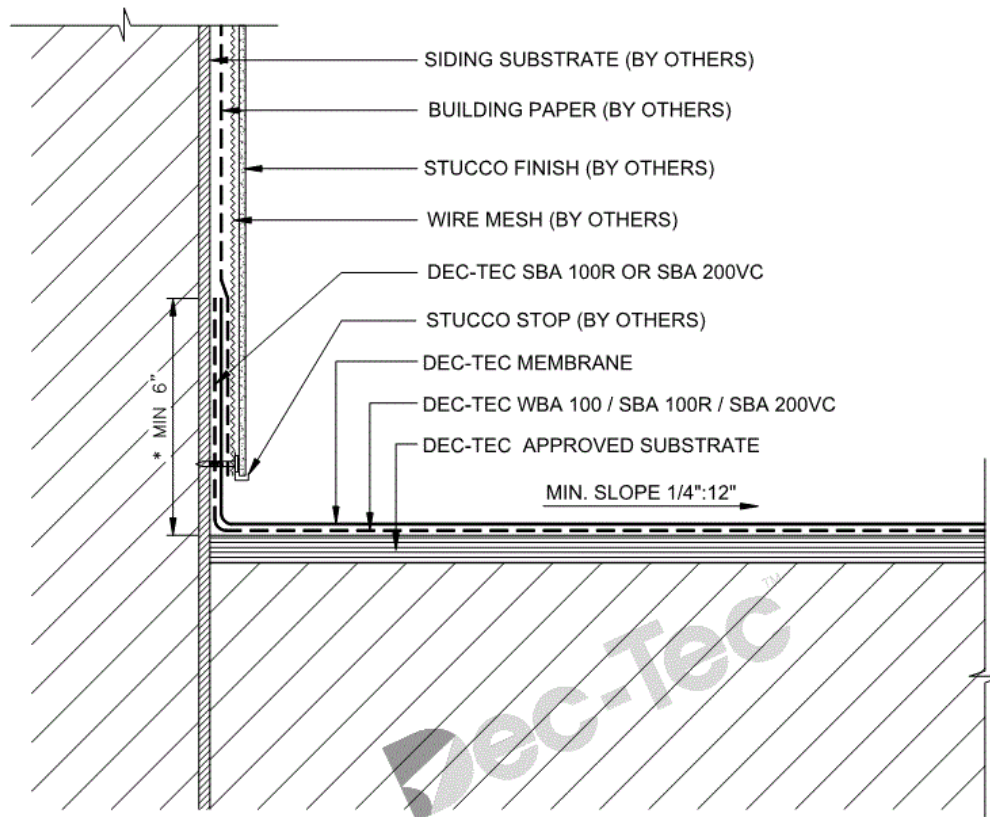
NOTES:

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7.3 TDD-003 DECK DETAIL: STUCCO SIDING



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DECK DETAIL : STUCCO SIDING

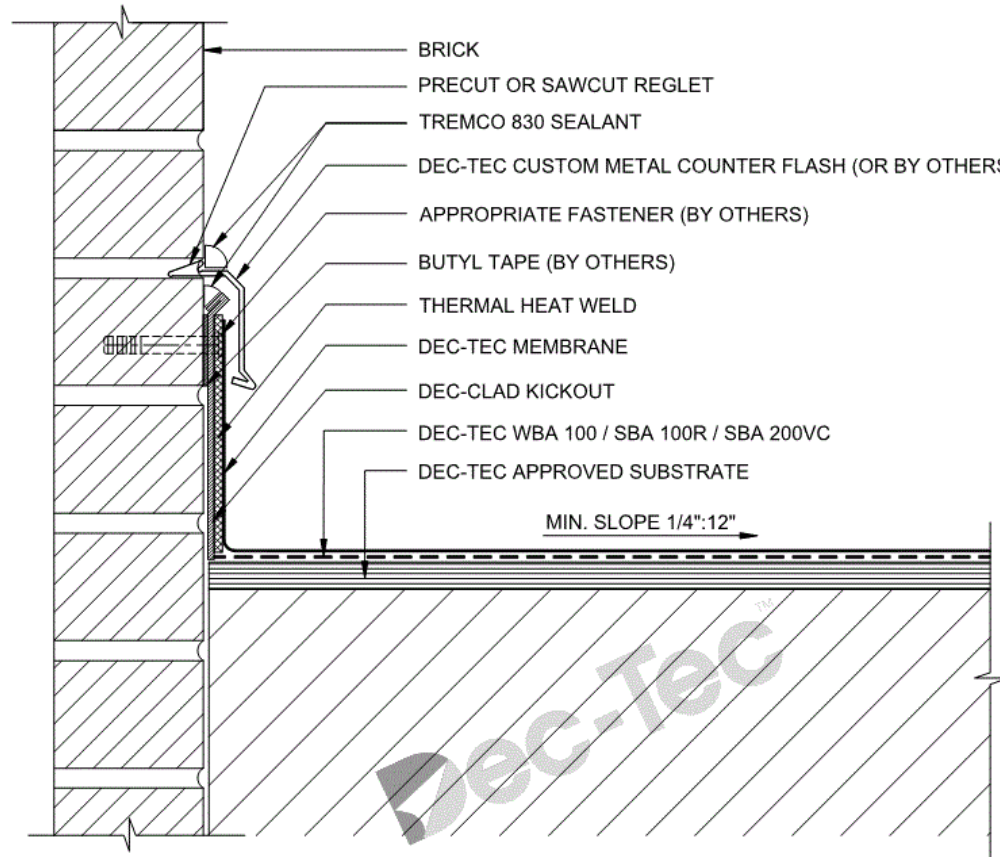
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7.4 TDD-004 DECK DETAIL: BRICK SIDING-SAWCUT REGLET & COUNTER FLASHING



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DECK DETAIL : BRICK SIDING - SAWCUT REGLET AND COUNTER FLASHING

NOTES:

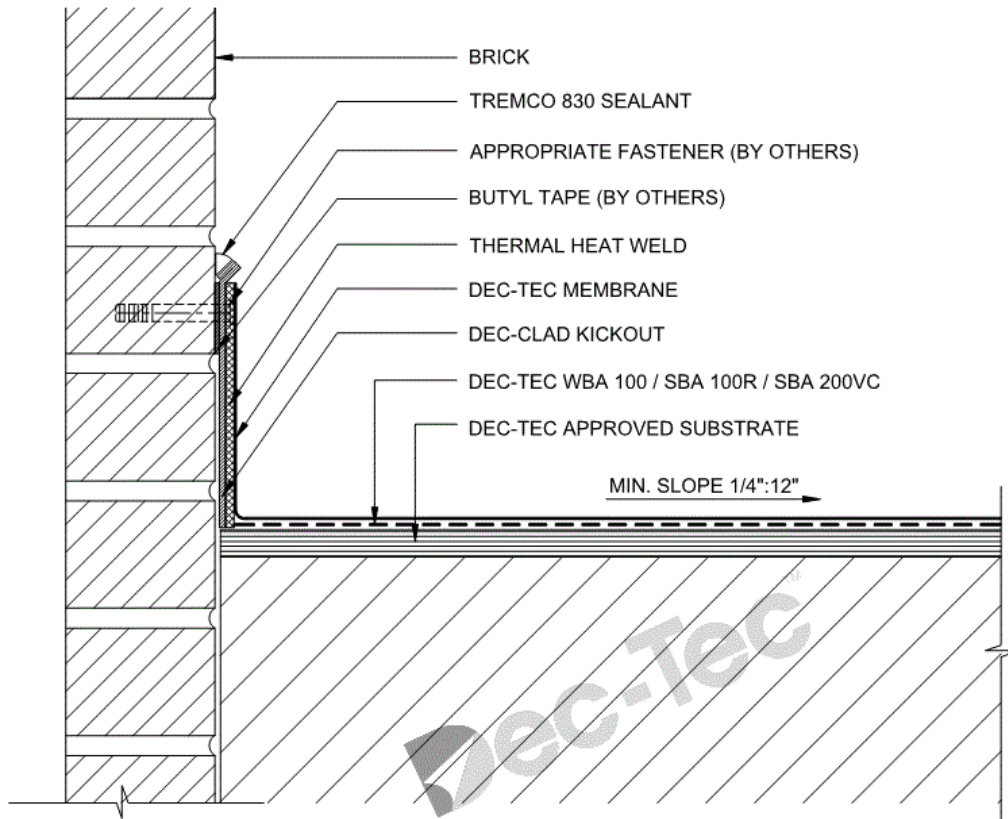
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH DEC-TEC INSTALLATION GUIDE, REFERENCE CM001.
2. DRAWINGS NOT TO SCALE .
3. DO NOT COVER MASONRY WEEPHOLES WITH FLASHING OR MEMBRANE.
4. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
5. SKYLINE BUILDING SYSTEMS INC. DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, QUANTITIES OR DIMENSIONS. THE ARCHITECT, CONTRACTORS OR OWNER'S REPRESENTATIVE MUST VERIFY ALL DIMENSIONS, SIZES AND SUITABILITY OF DETAILS.
6. THIS DRAWING IS THE PROPERTY OF SKYLINE BUILDING SYSTEMS INC. AND MAY NOT BE REPRODUCED WITHOUT WRITTEN CONSENT.
7. VISIT WWW.DEC-TEC.COM OR CALL 1-866-461-3914 FOR ADDITIONAL INFORMATION.
- * MUST CONSULT LOCAL BUILDING CODE AND CONFORM TO BE COMPLIANT.

TDD004

7.5 TDD-005 DECK DETAIL: BRICK SIDING – DEC CLAD KICKOUT



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DECK DETAIL : BRICK SIDING - DEC-CLAD KICKOUT

NOTES:

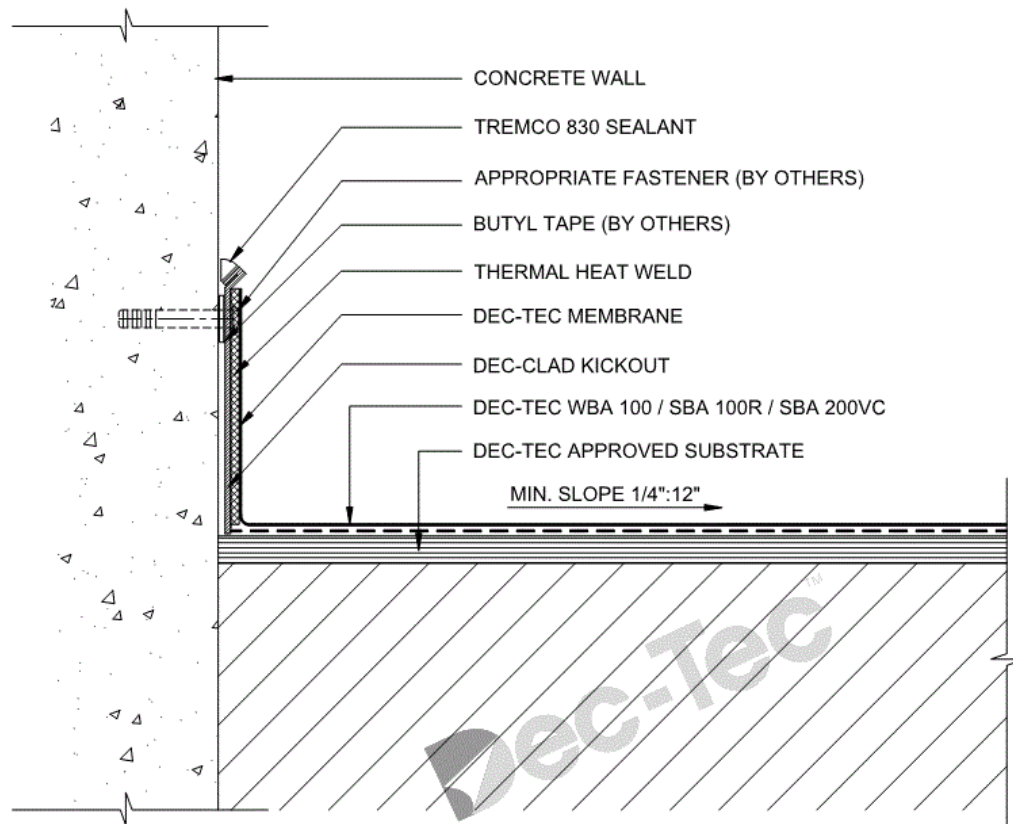
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2. DRAWINGS NOT TO SCALE .
3. DO NOT COVER MASONRY WEEPHOLES WITH FLASHING OR MEMBRANE.
4. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
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TDD005

7.6 TDD-006 DECK DETAIL: CONCRETE WALL SIDING – DEC-CLAD KICKOUT



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DECK DETAIL : CONCRETE WALL SIDING - DEC-CLAD KICKOUT

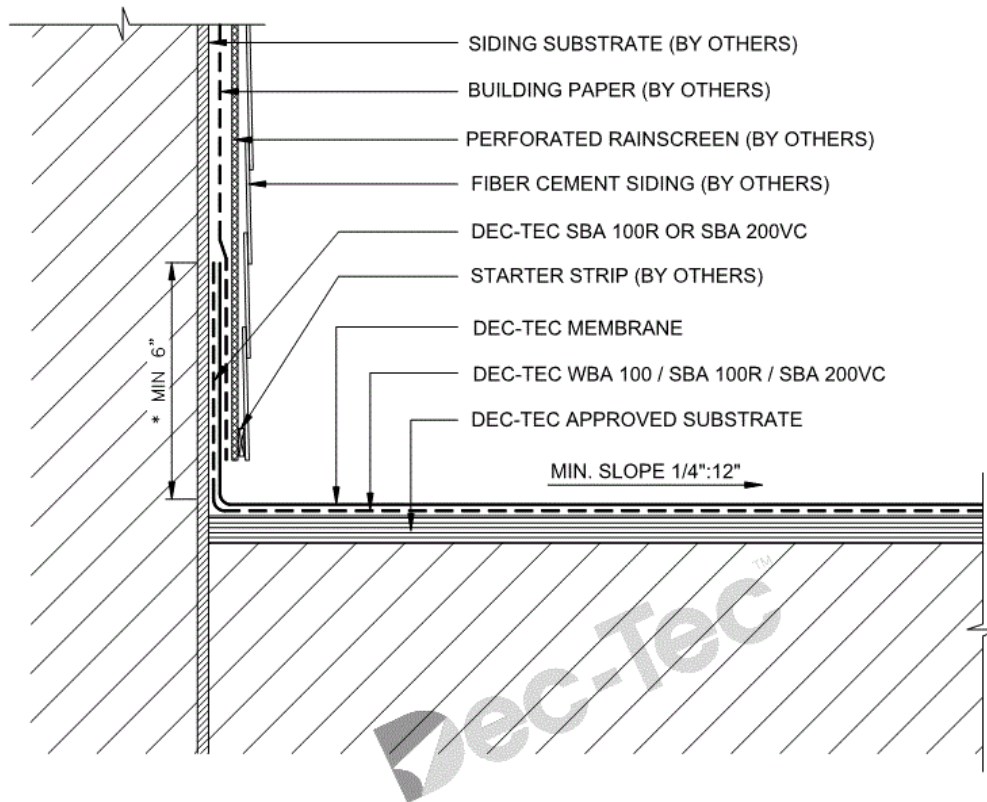
NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH DEC-TEC INSTALLATION GUIDE, REFERENCE CM001.
2. DRAWINGS NOT TO SCALE.
3. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
4. SKYLINE BUILDING SYSTEMS INC. DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, QUANTITIES OR DIMENSIONS. THE ARCHITECT, CONTRACTORS OR OWNER'S REPRESENTATIVE MUST VERIFY ALL DIMENSIONS, SIZES AND SUITABILITY OF DETAILS.
5. THIS DRAWING IS THE PROPERTY OF SKYLINE BUILDING SYSTEMS INC. AND MAY NOT BE REPRODUCED WITHOUT WRITTEN CONSENT.
6. VISIT WWW.DEC-TEC.COM OR CALL 1-866-461-3914 FOR ADDITIONAL INFORMATION.
- * MUST CONSULT LOCAL BUILDING CODE AND CONFORM TO BE COMPLIANT.

7.7 TDD-007 DECK DETAIL: FIBER CEMENT SIDING



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DECK DETAIL : FIBER CEMENT SIDING

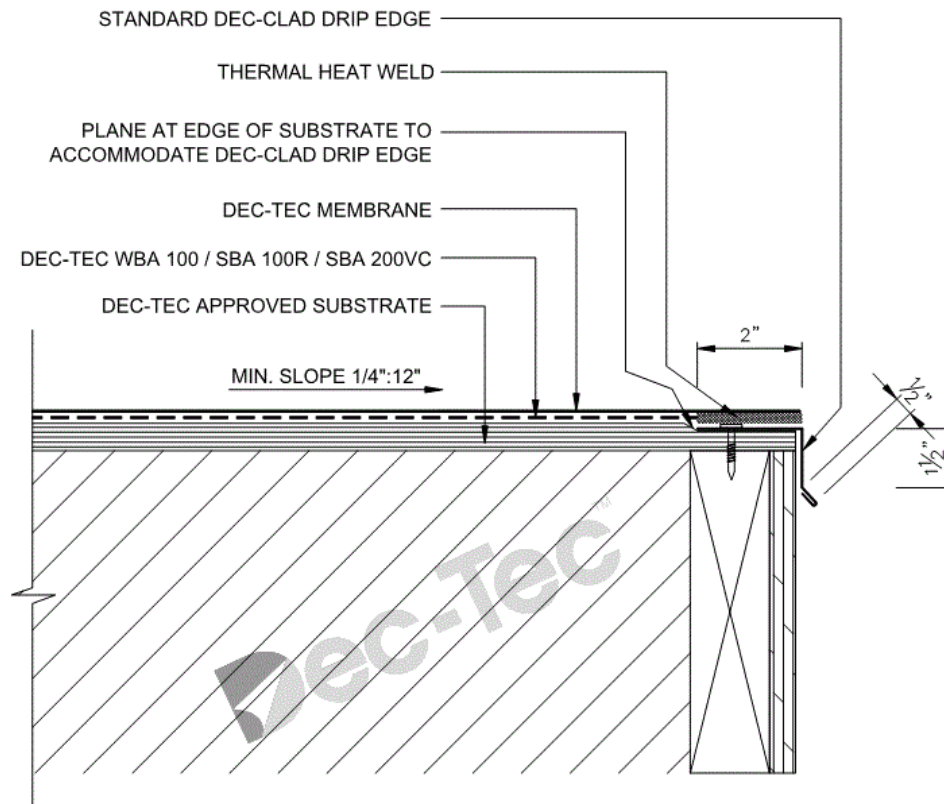
NOTES:

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7.8 TDD-008 DECK-CLAD DRIP EDGE DETAIL: TYPICAL



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DEC-CLAD DRIP EDGE DETAIL : TYPICAL

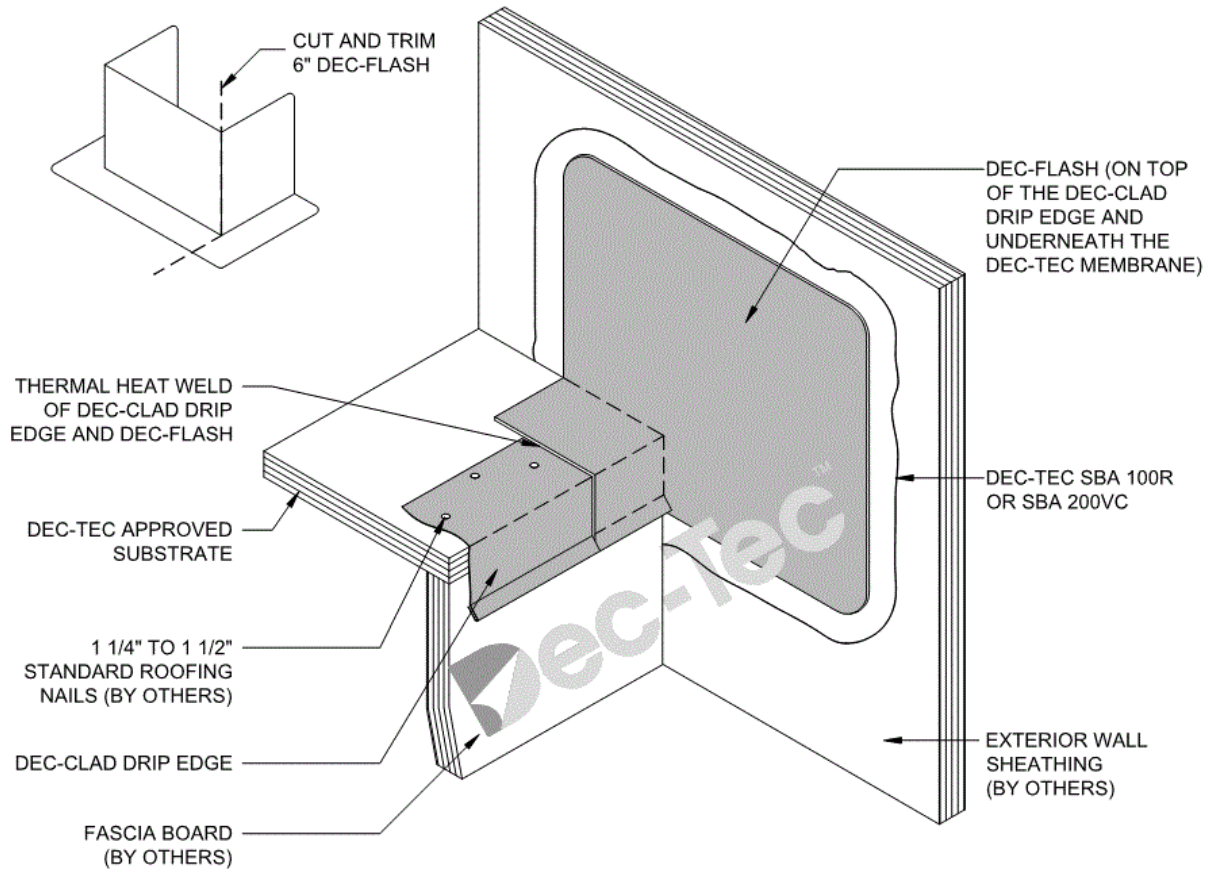
NOTES:

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7.9 TDD-009 DEC-CORNER DETAIL: PERPENDICULAR



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DEC-CORNER DETAIL : PERPENDICULAR

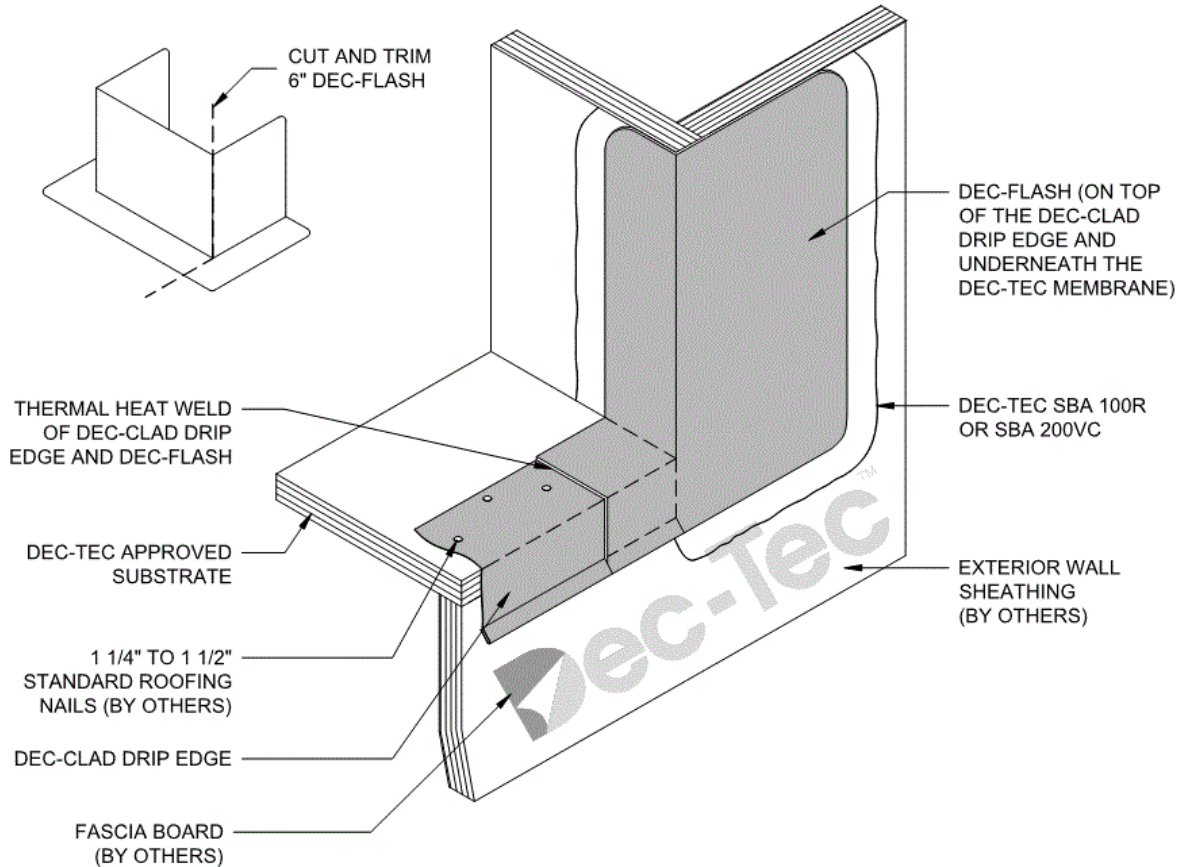
NOTES:

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7.10 TDD-010 DEC-CORNER DETAIL: PARALLEL



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DEC-CORNER DETAIL : PARALLEL

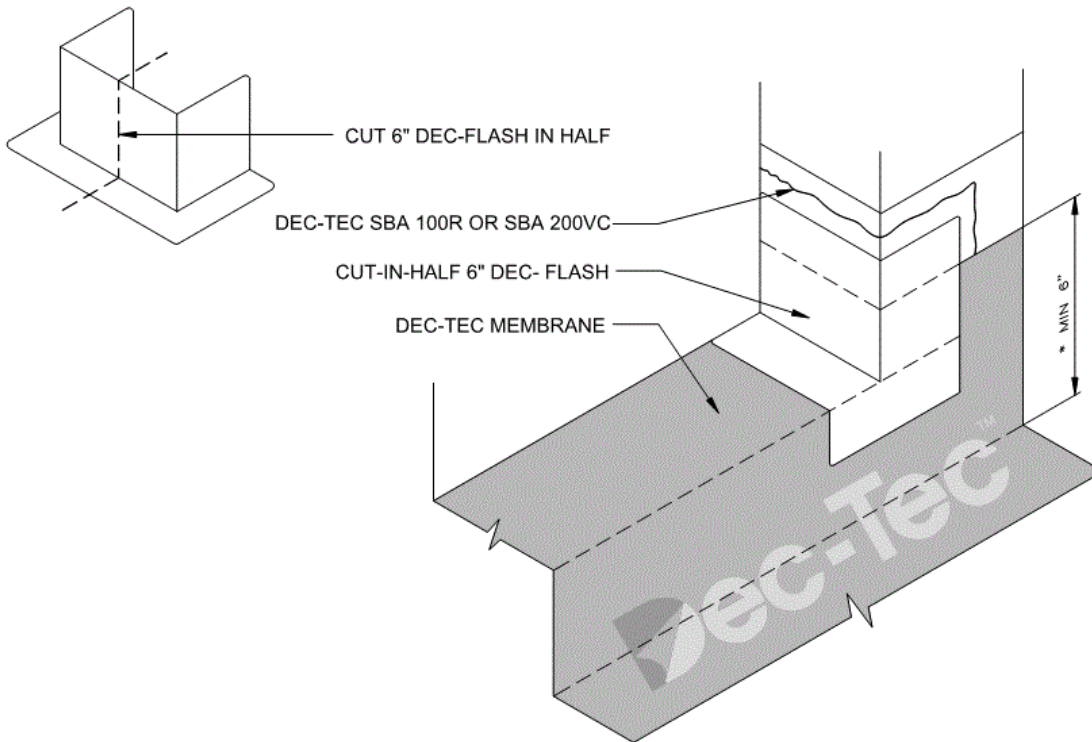
NOTES:

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7.11 TDD-011 DOOR SILL DETAIL



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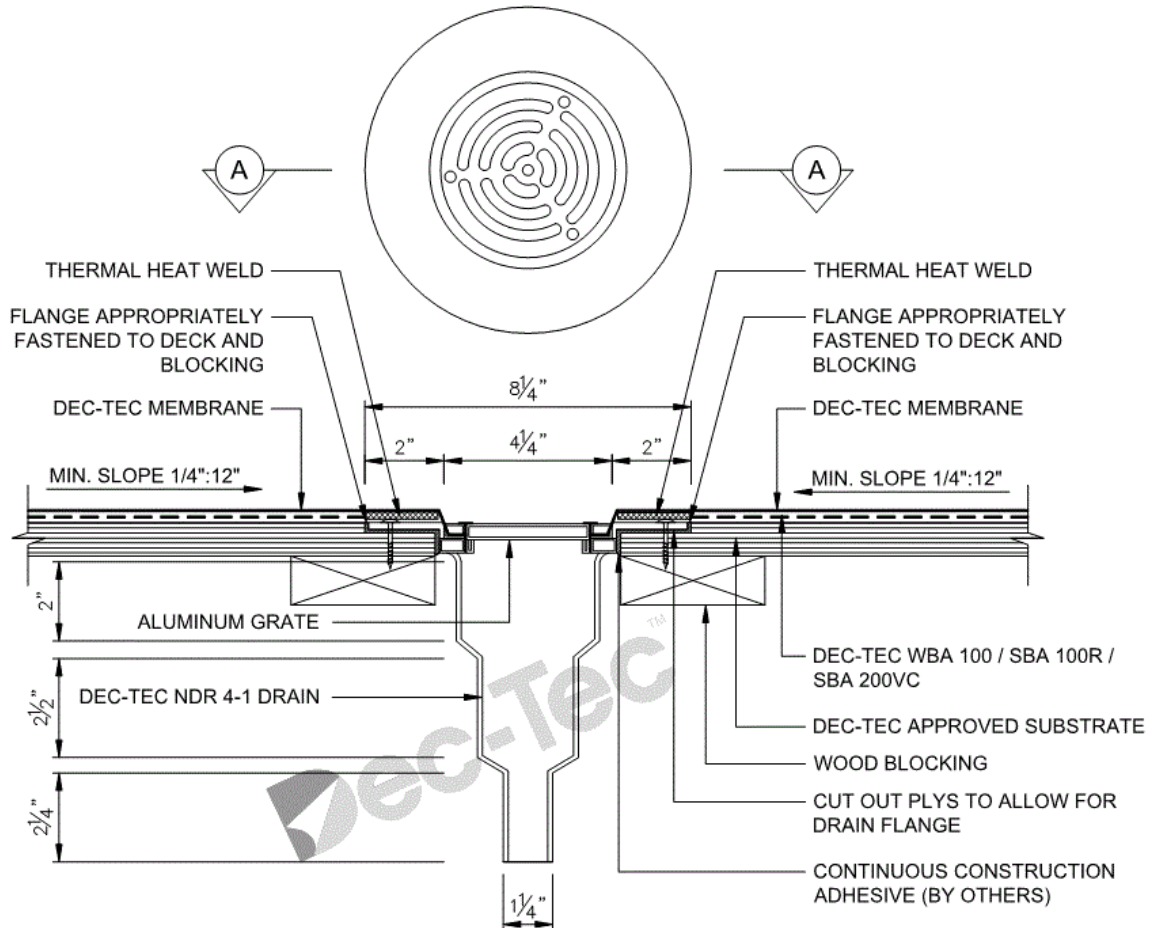
**DOOR SILL DETAIL****NOTES:**

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 2. DRAWINGS NOT TO SCALE.
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7.12 TDD-012 NDR 4-1 DEC-DRAIN DETAIL



SKYLINE BUILDING SYSTEMS INC.
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NDR 4-1 DEC-DRAIN DETAIL

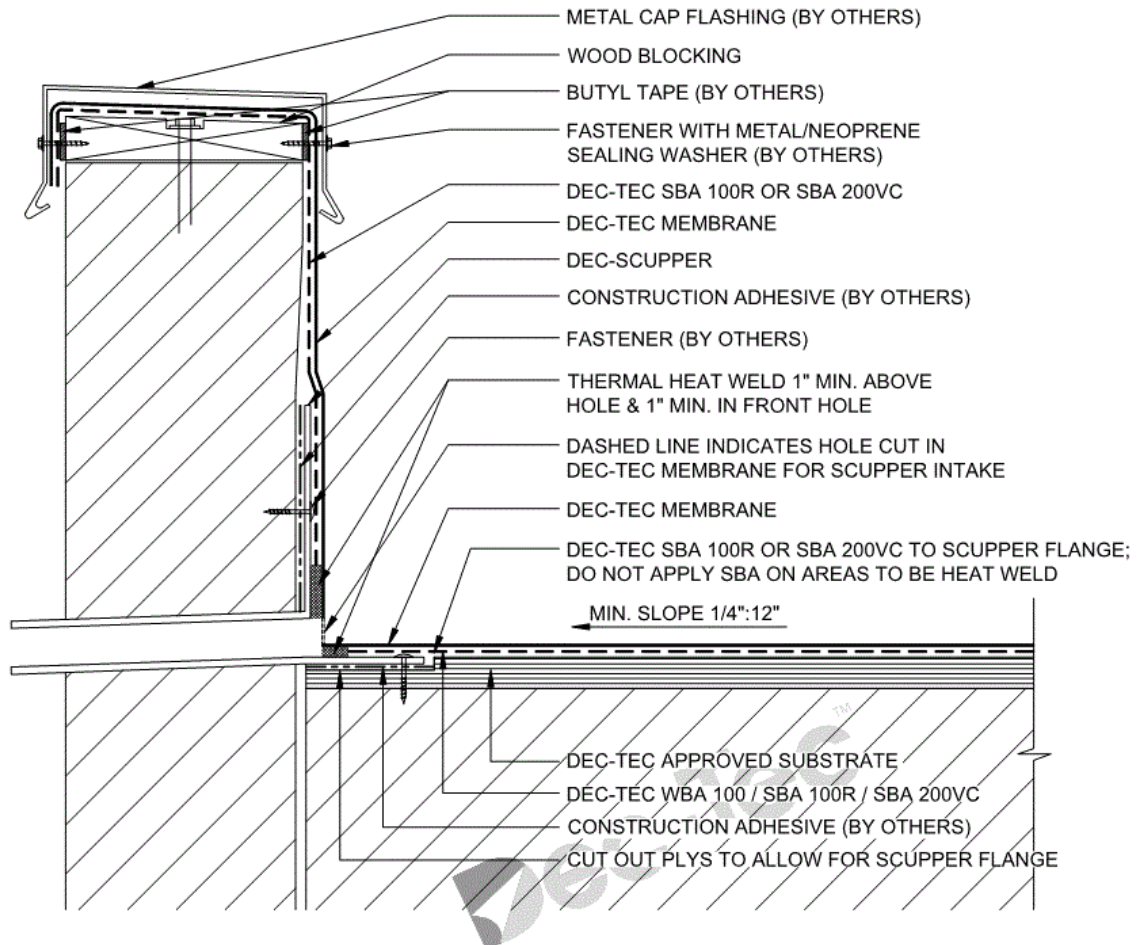
NOTES:

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7.13 TDD-013 DEC-SCUPPER DETAIL



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DEC-SCUPPER DETAIL

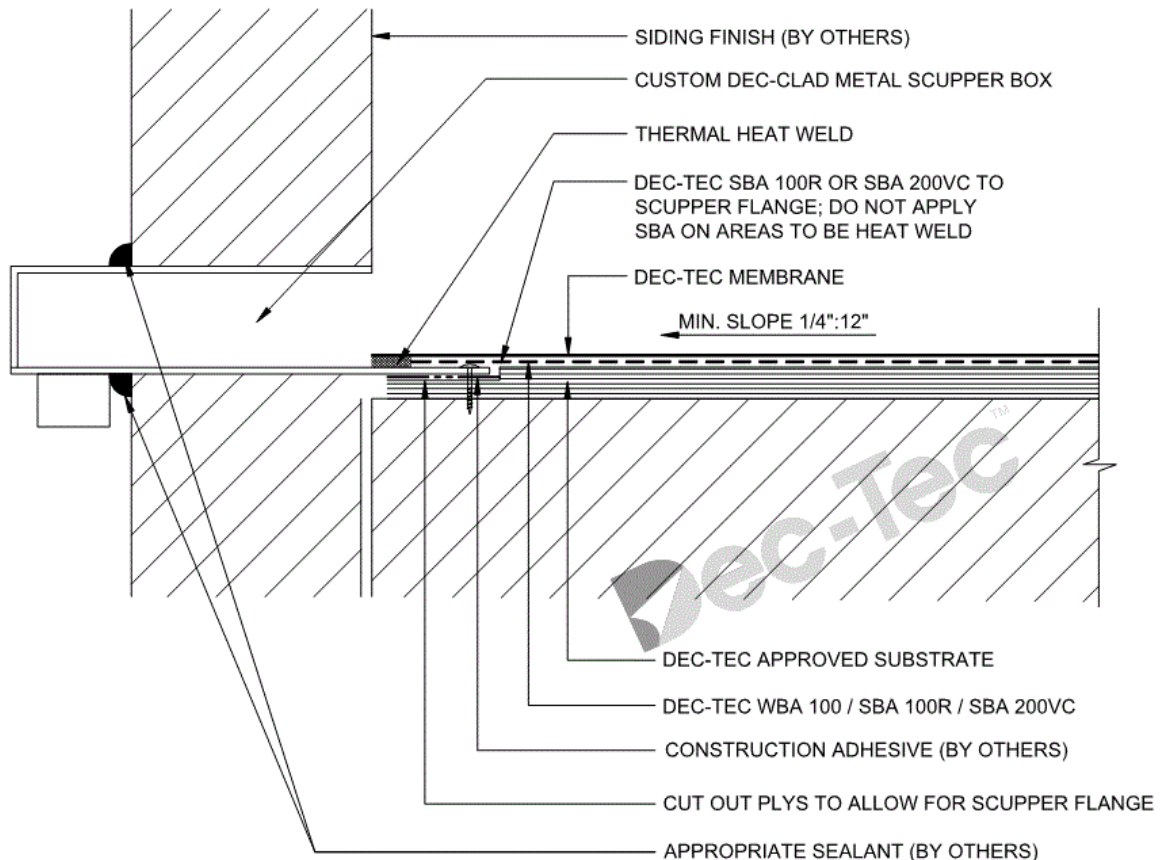
NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH DEC-TEC INSTALLATION GUIDE, REFERENCE CM001.
2. DRAWINGS NOT TO SCALE .
3. DEC-TEC SBA 100R OR SBA 200VC TO BE USED ON NON-WELDED AREAS OF SCUPPER.
4. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
5. SKYLINE BUILDING SYSTEMS INC. DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, QUANTITIES OR DIMENSIONS. THE ARCHITECT, CONTRACTORS OR OWNER'S REPRESENTATIVE MUST VERIFY ALL DIMENSIONS, SIZES AND SUITABILITY OF DETAILS.
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7.14 TDD-014 SCUPPER BOX DETAIL



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SCUPPER BOX DETAIL

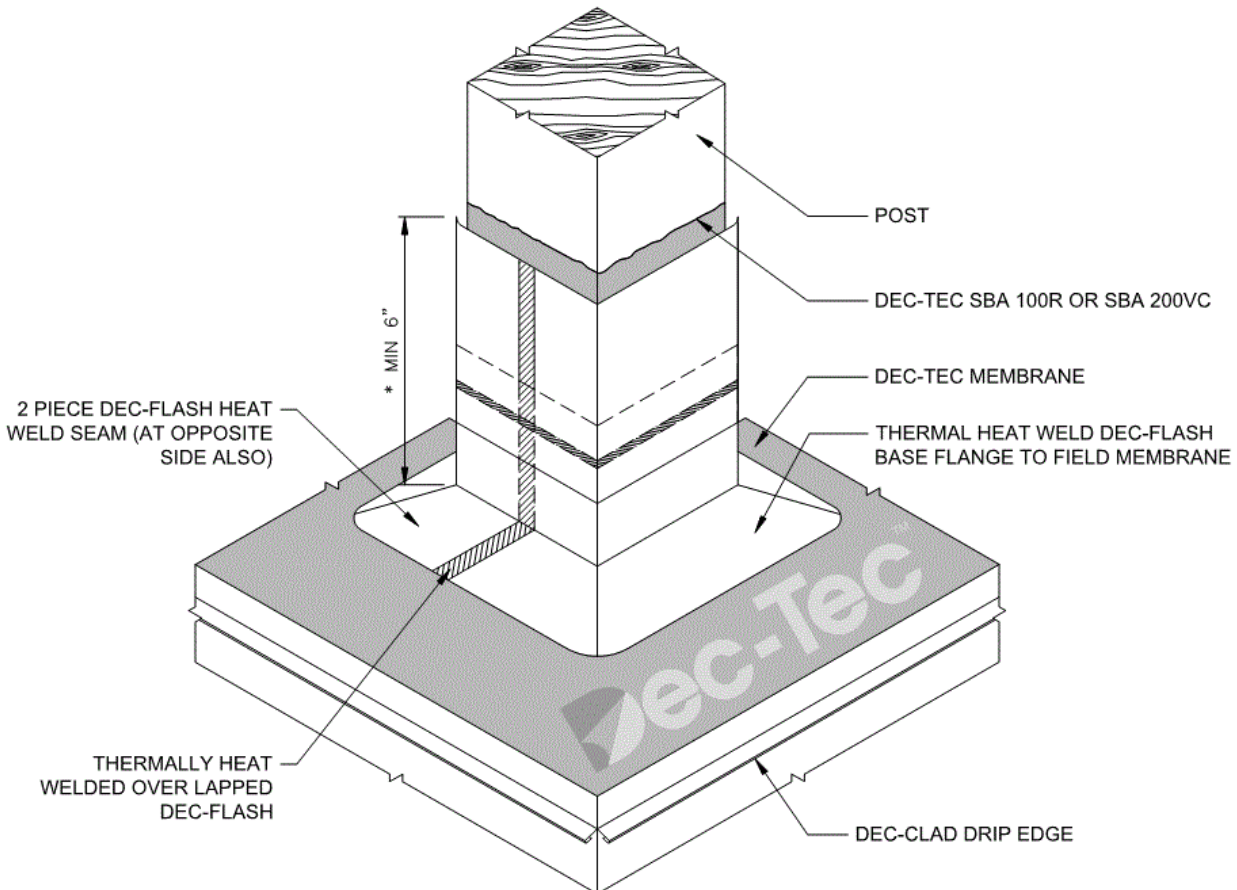
NOTES:

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7.15 TDD-015 POST / COLUMN WRAP DETAIL



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ROCKY VIEW, AB T4A 0E2
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POST / COLUMN WRAP DETAIL

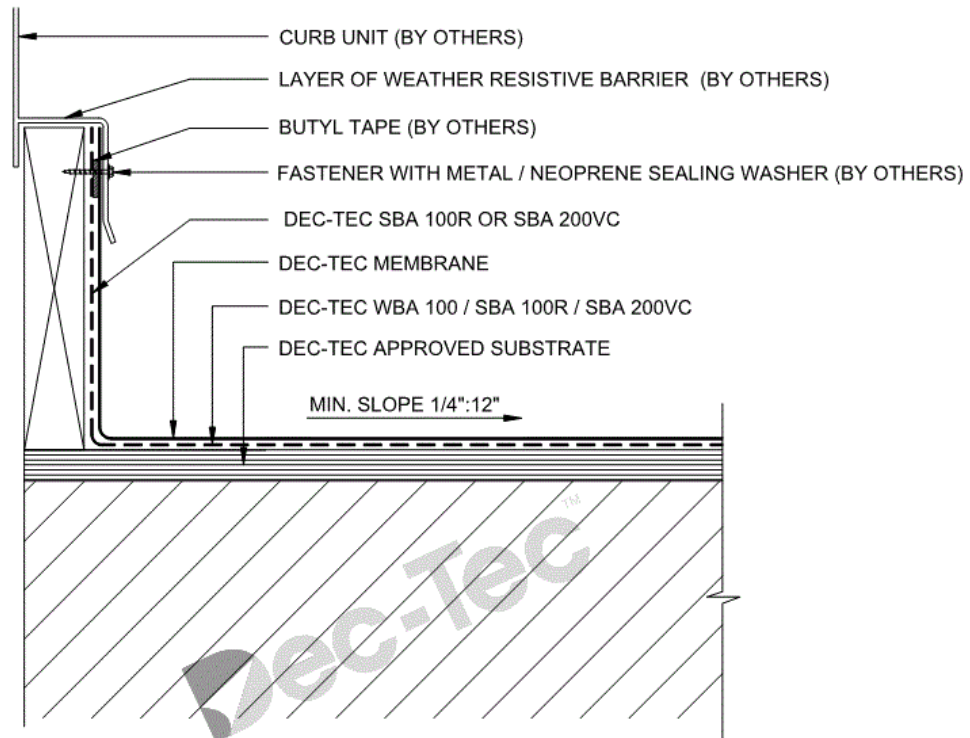
NOTES:

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7.16 TDD-016 CURB DETAIL



SKYLINE BUILDING SYSTEMS INC.
261185 WAGON WHEEL WAY
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CURB DETAIL

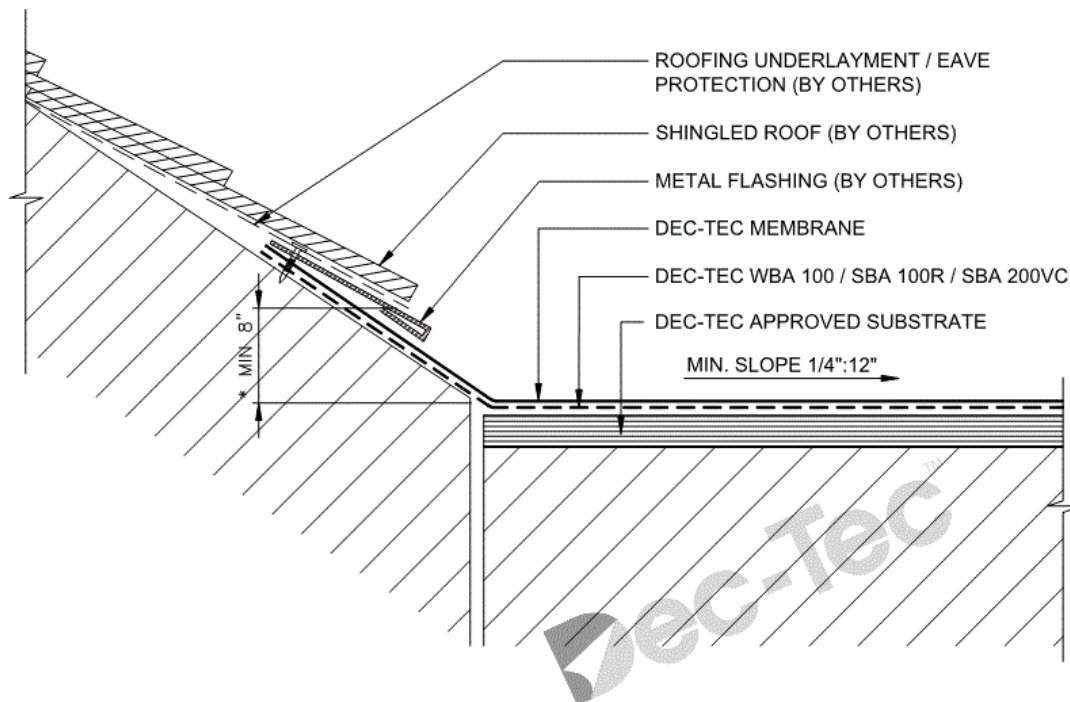
NOTES:

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7.17 TDD-017 DEC-TEC TIE-IN TO SHINGLE ROOF SYSTEM



SKYLINE BUILDING SYSTEMS INC.
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DEC-TEC TIE-IN TO SHINGLE ROOF SYSTEM

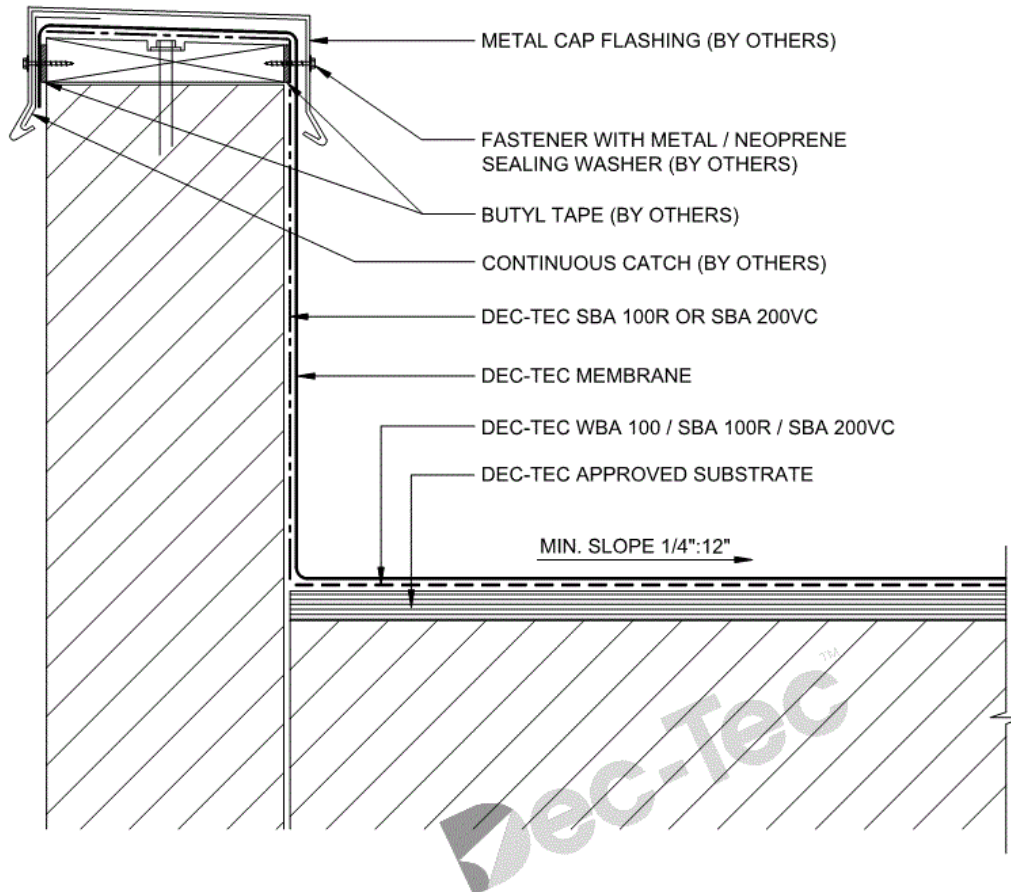
NOTES:

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7.18 TDD-018 PARAPET DETAIL



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261185 WAGON WHEEL WAY
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PARAPET DETAIL

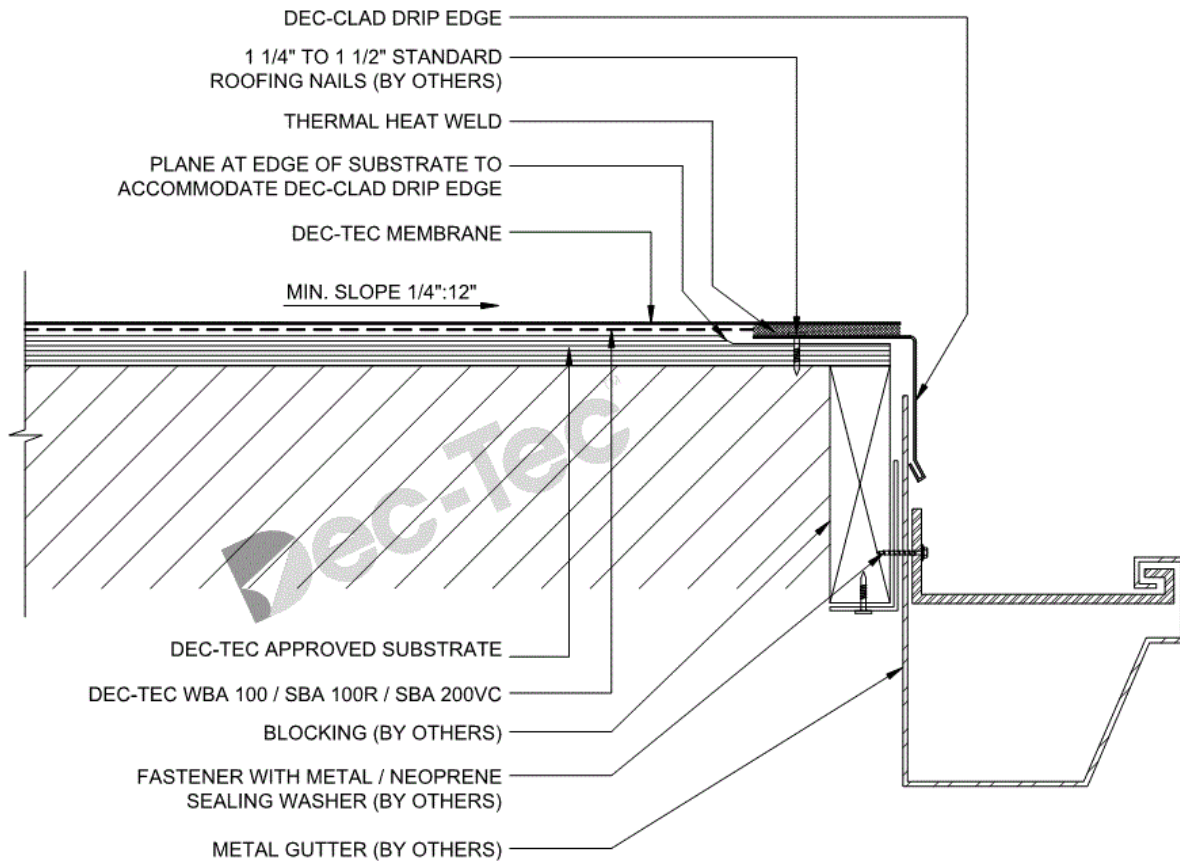
NOTES:

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7.19 TDD-019 GUTTER DETAIL



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261185 WAGON WHEEL WAY
ROCKY VIEW, AB T4A 0E2
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GUTTER DETAIL

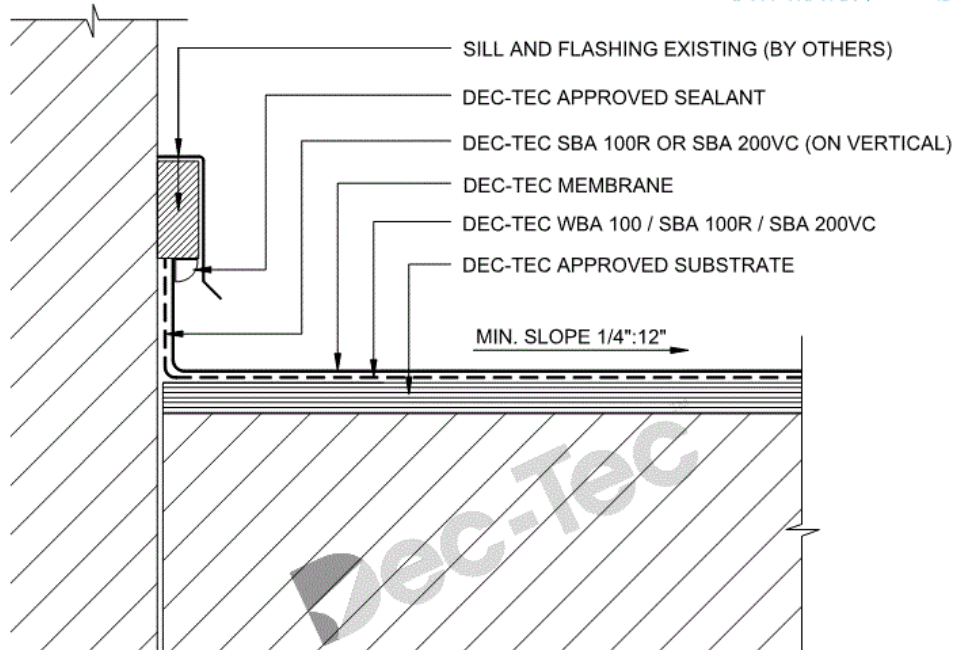
NOTES:

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7.20 TDD-020 NON-REMOVAL OF DOOR, SLIDING DOOR, WINDOW DETAIL



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NON-REMOVAL OF DOOR, SLIDING DOOR, WINDOW DETAIL

NOTES:

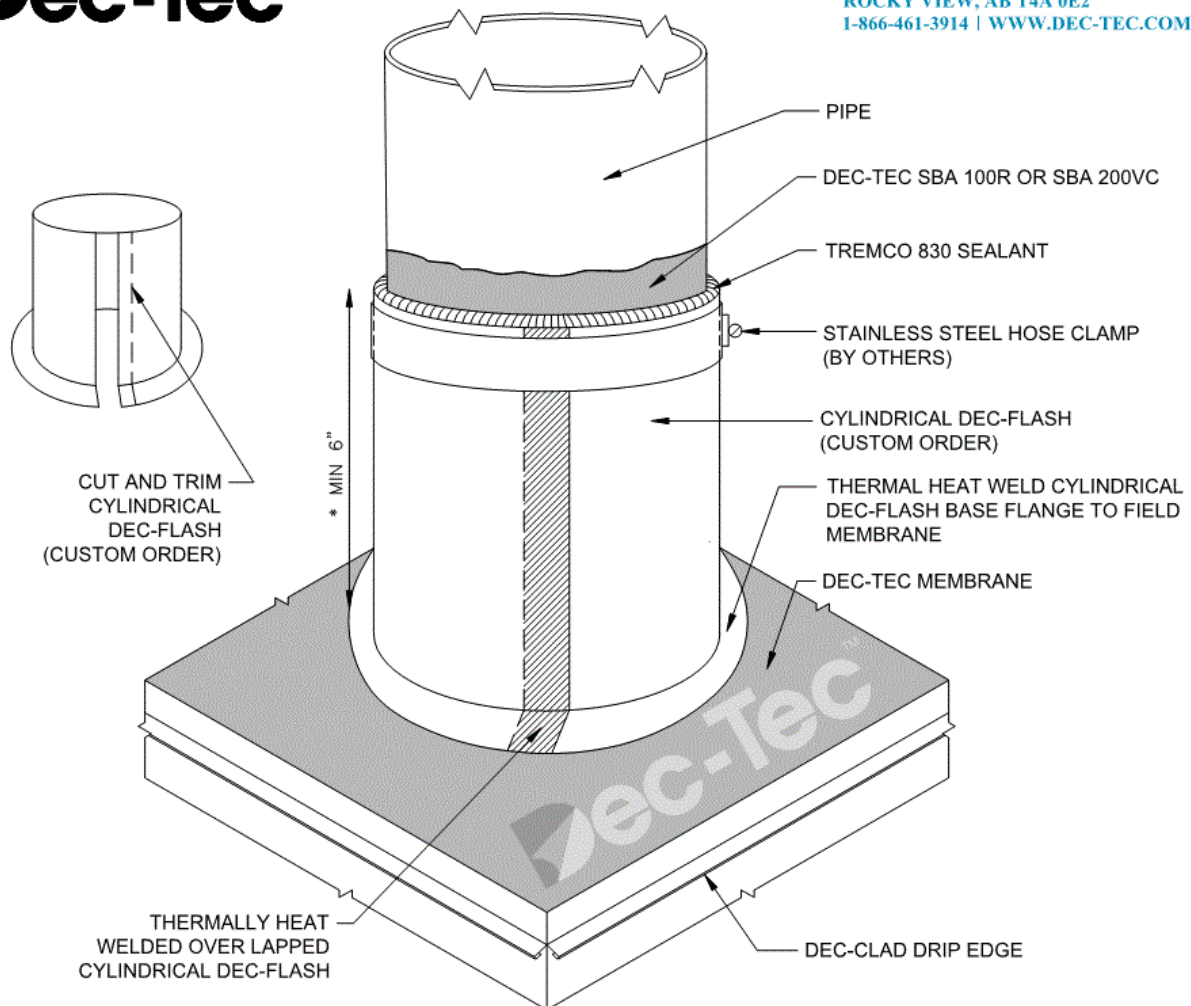
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH DEC-TEC INSTALLATION GUIDE, REFERENCE CM001.
2. DRAWINGS NOT TO SCALE.
3. SKYLINE BUILDING SYSTEMS ADVOCATES FOR THE REMOVAL OF A DOOR, SLIDING DOOR, OR WINDOW AS BEST PRACTICE AND FLASH IN THE THRESHOLD PER TECHNICAL DETAIL DRAWING - TDD011 DOOR SILL DETAIL.
4. IF THE DECISION HAS BEEN MADE TO NOT REMOVE A DOOR, SLIDING DOOR, OR WINDOW, THEN THE DETAIL IS DEEMED LESS THAN IDEAL AND THE FOLLOWING MUST BE CONSIDERED:
 - A) THE INSTALLING CONTRACTOR MUST RUN THE DEC-TEC MEMBRANE UP THE VERTICAL AND UNDER THE THRESHOLD AS HIGH AS POSSIBLE.
 - B) THE DEC-TEC MEMBRANE IS ONLY TO BE ADHERED TO A VERTICAL SURFACE WITH EITHER DEC-TEC SBA 100R OR SBA 200VC.
 - C) THE DEC-TEC MEMBRANE UNDER THE SILL THRESHOLD MUST RECEIVE AN APPLICATION OF DEC-TEC APPROVED SEALANT (TREMCO 830 OR CHEMLINK M-1).
 - D) THE SEALANT BECOMES A MAINTENANCE ITEM WHERE IT MUST BE VISUALLY INSPECTED 4 TIMES PER YEAR TO ENSURE IT IS CONTINUOUS AND NOT LIFTING AWAY FROM MEMBRANE OR SILL THRESHOLD.
5. MIN. SLOPE 1/4":12" AWAY FROM THE BUILDING STRUCTURE.
6. SKYLINE BUILDING SYSTEMS INC. DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING, QUANTITIES OR DIMENSIONS. THE ARCHITECT, CONTRACTORS OR OWNER'S REPRESENTATIVE MUST VERIFY ALL DIMENSIONS, SIZES AND SUITABILITY OF DETAILS.
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TDD020

7.21 TDD-021 PIPE PENETRATION WRAP DETAIL



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PIPE PENETRATION WRAP DETAIL

NOTES:

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