

CSI® CONSOLIDATED SYSTEMS, INC. Metal Dek Group®	STANDARD OPERATING PROCEDURES	Procedure SOP 1.28.MDG	Revision: 0
		Date: 09/30/2009	Page : 1 of 4
		Approved by: Allan Abbata	
Subject: Field Installation of Soffit-Dek™ using Versa-Dek® Roof Panel			
RECOMMENDED INSTALLATION GUIDELINES			

1.0 SCOPE

Soffit-Dek™ is an assembly by which a roof deck panel is mechanically attached to the frame of a structure to create a soffit. This SOP describes the procedures for installation of this product as it applies to the **Versa-Dek®** family of profiles. When used as described above, the **Soffit-Dek™** panel must be installed so that the ribs of abutting units line up and therefore present a smooth panel/cell transition at the abutted unit ends.

2.0 RESPONSIBILITIES

The **Metal Dek Group®** is responsible for manufacturing the **Versa-Dek®** Roof Panel for use as **Soffit-Dek™** according to the required soffit deck layout dimensions and installation directives set by the deck manufacturer's Engineering Group. The product will be delivered to the jobsite in individual panels of a specified length. The Deck Erector will be responsible for installing the **Soffit-Dek™** panels and associated accessories as shown on the Soffit Erection (Final Field Use) Drawings. (See Typical Erection Drawings below in Item No. 6 - Forms and Records).

3.0 REFERENCES

1. SDI Manual of Construction with Steel Deck
2. Steel Deck Institute Design Manual - Latest Publication
3. **Metal Dek Group® Soffit-Dek™** Erection (Final Field Use) Drawings
4. Figure 1 – **Soffit-Dek™** - Profile geometry
5. Figure 2 – **Soffit-Dek™** - Support Attachment Information
6. Figure 3 – **Soffit-Dek™** - Side-lap Attachment Information

4.0 REQUIREMENTS

The Deck Erector must be experienced in installing this deck type and be thoroughly knowledgeable with the Steel Deck Institute Code of Recommended Standard Practice and Manual of Construction with Steel Deck. All parties involved, including but not limited to, Architect, Engineer of Record, General Contractor, Steel Fabricator, Steel Erector and Soffit Contractor should receive and review documented installation procedures for the **Soffit-Dek™** profile. The ultimate review and execution of this procedure will be the responsibility of the General Contractor.

5.0 DEFINITIONS

None

6.0 FORMS AND RECORDS

- Metal Dek Group® Soffit-Dek™** Erection Drawings (Final Field Use Soffit Drawings)
- Figure 1 – **Soffit-Dek™** - Profile geometry
 - Figure 2 – **Soffit-Dek™** – Support Attachment Information
 - Figure 3 – **Soffit-Dek™** – Side-lap Attachment Information

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7.0 PROCEDURES

(Manufacturers Recommended Installation Guidelines) The following procedures reflect the recommended installation guidelines set forth as standards developed by the deck manufacturer. The **Soffit-Dek™** is supplied as individual panels and shall be installed only with a total understanding of the soffit system, the supplied soffit erection (Final Field Use) drawings and these recommended assembly and installation procedures.

1. Install the **Soffit-Dek™** in accordance with the **Metal Dek Group® Soffit-Dek™** Erection Drawings with General Notes and SDI Manual of Construction with Steel Deck. The specific location and orientation of **Soffit-Dek™** is depicted on the **Metal Dek Group® Soffit-Dek™** Erection Drawings designated as "Final Field Use Soffit Drawings".
2. Recommended Procedures for Proper Installation of **Soffit-Dek™** using **Versa-Dek®** Roof Panel:
 - a.) Installation of the initial **Versa-Dek®** panel is critical for maintaining proper bearing and straight alignment of the entire soffit system. Refer to the Recommended Installation Procedures and General Notes - Soffit Placement on the Final Field Use Dek Drawings.
 - b.) For proper installation, begin soffit panel @ **"Start Point"** as noted on soffit drawings with the panel female leg in the direction of panel installation. The use of overhead lifting and/or supporting equipment is recommended for safely handling and installing soffit panels.
 - c.) Maintain the proper cover width by stretching the panel to the cover width dimension.
 - d.) Lift panel into place and field mark any locations that require the panel to be cut.
 - e.) If applicable, mitered or skewed cuts shall be made with precision and with no jagged edges. Paint cut edge with appropriate coating type for environment as specified by project requirements (Refer to Final Field Use Soffit Drawings).
 - f.) Pre-drill holes in panel at locations where panel attaches to structural support. (Slotted holes may be required for thermal movement. The EOR shall determine the exact size and shape if required.)
 - g.) Attach the **Versa-Dek®** panel to supporting structural members as shown on the Final Field Use Soffit Drawings.
 - h.) Install adjacent **Versa-Dek®** panel by lifting panel into place and nesting male and female panel legs. Be sure to fully engage adjacent panel at side-lap as shown in Figure 3. Mark any locations requiring cuts and execute as stated in Step e.).
 - i.) Attach the **Versa-Dek®** panel to supporting structural members and adjacent panel side-laps as shown on the Final Field Use Soffit Drawings.
 - j.) If applicable, remove any protective coverings to the panel once installed
 - k.) Repeat the above procedures until all soffit panels are installed.
3. Material shall be provided by the **Metal Dek Group®** for the fabrication of trim pieces by the contractor. Trim pieces are required to be installed at all skew or miter cut areas and at abutted joints.
4. After the soffit panels have been installed as shown on the soffit erection plans, it will be necessary to make sure all ribs and rib openings are lined up with the specified dimensions. It is the soffit deck manufacturer's recommendation that a gauge block be used to measure the rib gaps (where not affected by barrel curved panels) to insure proper alignment and appearance.
5. Subcontractors are to adhere to all OSHA standards for maintaining field construction practices. **Soffit-Dek™** components may contain sharp edges and proper field precautions should be implemented.

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6. The location of openings in the **Soffit-Dek™** shall be the responsibility of the trades requiring them. These openings shall be field cut and reinforced as required by the Engineer of Record (EOR). Holes shall be cut prior to installation of any above soffit materials. The penetrations shall be cut in such a manner as to present a neat appearance without burrs or sharp edges and in accordance with the SDI Manual of Construction for Steel Decks.
7. Unless directed by the EOR, personal are not permitted to walk or store equipment on the **Soffit-Dek™** once it has been installed. The EOR is responsible for specifying the personnel and equipment load limitations to be allowed on top of the soffit panels.
8. Suspended ceilings, light fixtures, duct works and/or other utilities can be accommodated by **Soffit-Dek™** if properly accounted for in the design. The EOR is responsible for the design, location and specification of reinforcing (if necessary) for all hanging loads from the soffit.
9. For any instances in which a situation arises that are not covered by this SOP, contact is to be established and is mandatory with the **Metal Dek Group®** to provide guidance in resolving the issue(s) before proceeding.

This SOP is offered as the Metal Dek Group's recommendation for product installation. It is not intended as a guarantee or as a requirement. Successful installation can be achieved by following this procedure. The responsibility for appropriate quality installation procedures and safety practices ultimately lies with the General Contractor and the subcontractors involved. The Metal Dek Group® is available to answer questions or concerns associated with this SOP.

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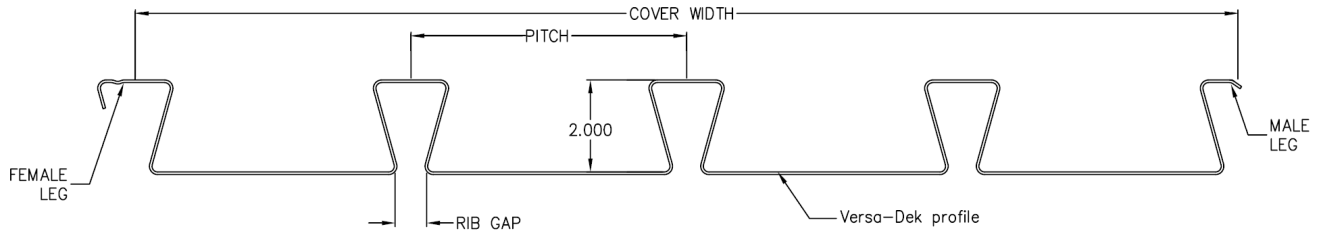


Figure 1: Soffit Panel Geometry

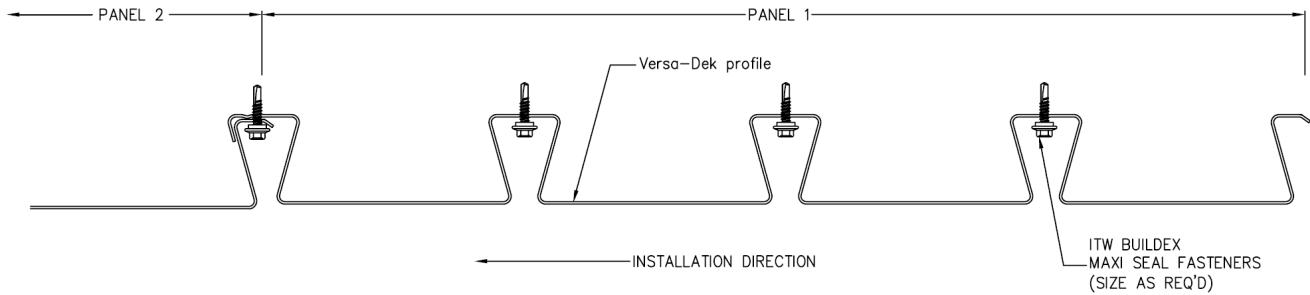


Figure 2: Support Attachment Information

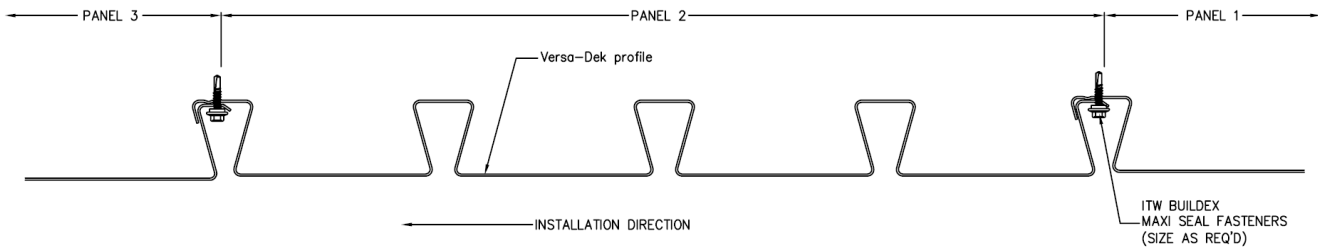


Figure 3: Side-lap Attachment Information