

<b>CSI®</b>  CONSOLIDATED SYSTEMS, INC.  Metal Dek Group®	<b>STANDARD OPERATING PROCEDURES</b>	DATE <b>September 21, 2009</b>	PROCEDURE <b>SOP 608</b>
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		APPROVAL <p style="text-align: right;">Allan Abbata</p>	
<b>SUBJECT: Field Removal and Reinstallation Procedures for Access Covers in Deep Dek® Cellular Panel</b>			
<b>Recommended Installation Guidelines</b>			

## 1.0 SCOPE

**Deep-Dek® Cellular Panel w/ Access Covers** (CCDP) is an assembly by which a bottom liner panel is attached to a Deep-Dek® top hat section. The procedures described in this SOP are for Access Covers that require removal and reinstallation of prefabricated access covers, plastic lath, metal screws, and acoustical insulation batts. Various trades may use the chase area created between the bottom liner panel and the deck top hat section. When used as part of a system described above, the deck panels must be installed so that the ribs line up and therefore present a smooth cell transition at abutting units. Care must be exercised to ensure there are no sharp edges or other intrusions that would cause damage to other trades' devices/installs.

## 2.0 RESPONSIBILITIES

The Metal Dek Group® is responsible for manufacturing the **Deep-Dek® Cellular Panel w/ Access Covers** according to the required deck layout dimensions and installation directives set by the deck manufacturer's Engineering Group. The product will be delivered to the jobsite as a complete assembly that includes cellular deck panel, access covers, acoustical insulation batts, plastic lath, metal screws and Dek-Strut devices. The Deck Erector will be responsible for installing the **Deep-Dek® Cellular Panel w/ Access Covers** and associated accessories as shown on the Deck Erection (Final Field Use) Drawings. (See Typical Erection Drawings below in Item No. 6 - Forms and Records). The various subcontractors are responsible for dismantling the Access Covers and accessories as required and reassembling the parts in the correct location without damage. (See 7.0 Procedures for additional responsibilities.)

## 3.0 REFERENCES

1. SDI Manual of Construction with Steel Deck
2. Steel Deck Institute Design Manual - Latest Publication
3. Metal Dek Group® Erection (Final Field Use) Drawings
4. Figure 1 - **Deep-Dek® Cellular Panel w/ Access Covers** Diagram
5. Figure 2 - **Dek-Strut Accessory Detail**
6. Figure 3 – Descriptive Label

## 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, Electrical, Plumbing and HVAC Contractors and any related subcontractors should receive and review documented removal and reinstallation procedures for the **Deep-Dek® Cellular Panel w/ Access Covers**. The ultimate review and execution of this procedure will be the responsibility of the General Contractor.

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## 5.0 DEFINITIONS

Dek-Strut Accessory - A device to support various articles installed by trades requiring them.

## 6.0 FORMS AND RECORDS

Metal Dek Group® Deck Erection Drawings (Final Field Use Dek Drawings)

## 7.0 PROCEDURES

### (Manufacturer's Recommended Installation Guidelines)

The following procedures reflect the recommended installation guidelines set forth as standards developed by the deck manufacturer. The **Deep-Dek® Cellular Panel w/ Access Covers** is supplied as a custom product and shall not be installed without a total understanding of the supplied deck erection (Final Field Use) drawings and these recommended installation procedures.

**1. Install the Deep-Dek® Cellular Panel w/ Access Covers in accordance with the SDI Manual of Construction with Steel Deck and the Metal Dek Group Erection Drawings with General Notes. The specific location of the labeled Access Covers are depicted on the Metal Dek Group Erection Drawings designated as "Final Field Use Dek Drawings". All Deep-Dek® Cellular Panel with Access Covers will be identified with a designated label as shown in Figure 3. See Figure 1 for general location of descriptive label.**

**2. After the deck has been installed as shown on the deck erection plans, it will be necessary to remove some or the entire bottom Access Covers to install mechanical or electrical equipment in the chase. It is the deck manufacturer's recommendation that a minimum of two persons perform this task to minimize damage to the Access Covers.**

**3. Subcontractors are to adhere to all OSHA standards for maintaining field construction practices. Access cover components may contain sharp edges and proper field precautions should be implemented.**

**4. Extreme care shall be used to protect the Access Covers, insulation batts, plastic lath and metal screws from being damaged.**

**5. The Access Covers are numerically keyed to the deck units. Corresponding numbers are placed on both the interior of the cellular deck panels and the interior of the Access Covers. The Access Covers MUST be reinstalled in the exact location from which they were removed.**

### 5a. Recommended Steps to Remove Access Covers:

Remove all Philips head screws working from one end of cover to the other.

Provide continuous support at the free end of Access Cover during removal.

Remove Access Cover with extreme care to minimize damage to attached finished surface and overall shape (ie banding, creasing, scratching, etc.).

Attach cover to adjacent panel using a minimum of four (4) screws (one screw per corner of panel) Remove and store with extreme care acoustical insulation batts, plastic lath and metal screws.

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6. Dek-Struts shall be installed by the trades as required at intervals per the Engineer of Record. Refer to the Dek-Strut Detail (Figure 2). All locations of Dek-Struts shall be identified and approved by the Engineer of Record prior to installation.

**6a. Recommended Steps to Install the Dek-Strut Accessory:**

Hold Dek-Strut in the inverted position (Legs Up).  
 Insert into cut-out opening parallel with the deck panel.  
 Rotate Dek-Strut 90 degrees about vertical axis.  
 Rotate Dek-Strut 180 degrees about horizontal axis.  
 Pull down Dek-Strut until legs rest on cellular deck bottom liner panel.  
 Install four (4) #10 hex screws, not supplied by CSI, as shown on the Figure 1.  
 Refer to the factory installed Dek-Strut as a guide for field installation.

7. Locations of openings in the Access Covers shall be the responsibility of the trades requiring them. These openings shall be field cut and reinforced as required by the Engineer of Record. Holes shall be cut with Access Covers removed. The penetrations shall be cut in such a manner as to present a neat appearance without burrs or sharp edges.

8. During reassembly of the Access Covers, care must be exercised to ensure that the insulation and lath are replaced in the order in which they were removed. Reinstall the insulation first and the lath second. Ensure that the lath and insulation is centered in the access opening. The pre-drilled holes in the cellular deck bottom liner panel must line up with the holes in the Access Covers. It is the deck manufacturer's recommendation that a minimum of two persons perform this task.

9. Extreme care shall be used to protect the Access Covers, insulation batts, plastic lath and metal screws from being damaged prior to, during and after deck installation.

10. Suspended ceilings, light fixtures, duct works and/or other utilities are permitted and can be suspended from the Deep-Dek<sup>®</sup> Cellular Panel w/ Access Covers. The EOR is responsible for the design and location of all hanging loads from the deck.

11. Locations of openings in the Deep-Dek<sup>®</sup> Cellular Panel w/ Access Covers shall be the responsibility of the trades requiring them. These openings shall be field cut and reinforced as required by the Engineer of Record. Holes shall be cut prior to installation of the above deck 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.

12. Any instance in which a situation arises that is not covered in this SOP, contact is to be established with the Metal Dek Group(TM), Project Services Department to provide guidance to resolve the issue before proceeding.

This SOP is offered as the Metal Dek Group's<sup>®</sup> 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<sup>®</sup> is available to answer questions or concerns associated with this SOP.