Mid-Rise Multi-Story Residential Floor System Guide
VERSADÉK®

Versa-Dek® is a long span floor deck that provides composite action for spans up to 28'-0". Versa-Dek's® capabilities and life cycle cost are ideal for multi-story residential construction.

- 2" Deep dovetail shaped decks
- Non-Combustible
- Exceptional lead times
- Optionally exposed ceilings
Restrained Assembly
Fire Resistance Ratings

<table>
<thead>
<tr>
<th>Ratings (Hr.)</th>
<th>Total Depth Normal-weight Concrete</th>
<th>Total Depth Light-weight Concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hr.</td>
<td>4”</td>
<td>NA</td>
</tr>
<tr>
<td>2 Hr.</td>
<td>5.25”</td>
<td>4.5”</td>
</tr>
<tr>
<td>3 Hr.</td>
<td>6.75”</td>
<td>5.25”</td>
</tr>
</tbody>
</table>

NA - Not available
Reference UL Designs D904, D917, D928 and D929

Sound Transmission Class (STC)

Versa-Dek® S and XLS exceeds all FHA STC grade requirements.

For more information on fire and STC ratings, call 1.800.554.5421
Exposed Deck Options

• **Versa-Clear™** creates a protected exposed galvanized look
• **Versa-Cote™** provides a ready-to-paint surface
• **Versa-Clad™** delivers a custom pre-painted color option

Non-exposed Deck Options

• Plaster
• Texture
• Drywall
Versa-Dek®
INSTALLATION

Versa-Dek® Bundles
Bundles are sequenced, tagged and delivered.

Installing Shoring
Temporary shoring is quickly installed between supports.

Deck Ready For Concrete
Minimal shoring allows other trades to begin work.

Versa-Dek® Staggered Flutes
Staggered flutes over load bearing walls in a 4-1/2” NW slab provide a 2hr UL rating above the wall.

Uniform Load Distribution
Deck uniformly loads walls.

Integrated Concrete Beam
Shallow concrete beams help reduce floor-to-floor heights.

Apply Concrete Topping
Deck is topped with either light-weight or normal-weight concrete.

Design Flexibility
Allows for open environments.

Core Drilling Flexibility
No concerns of cutting post tension cables or bar joists.

Questions about Versa-Dek® Installation, call 1.800.554.5421
Versa-Dek®

TYPICAL DETAILS

The details below are provided as a guide. For specific design information go to www.metaldek.com or call the Dek Design Team®.

Continuous Span Reinforcement

Fire Rated Above Wall Joint

Integrated Concrete Beam

Versa-Dek® @ Corridor Beam

Versa-Dek® End Bearing @ CMU Wall

Versa-Dek® End Bearing @ Stud Wall

To view more Versa-Dek® Details go to www.metaldek.com or call 1.800.554.5421
## Versa-Dek® XLS | Maximum Spans for 22 Gauge

<table>
<thead>
<tr>
<th>Total Slab Depth (inches)</th>
<th>Simple Span</th>
<th>Continuous Span</th>
<th>Maximum Unshored Construction Clear Span for 22 GA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>13'-7&quot;*</td>
<td>13'-2&quot;*</td>
<td>11'-8&quot;*</td>
</tr>
<tr>
<td>4 3/4</td>
<td>15'-6&quot;</td>
<td>15'-1&quot;*</td>
<td>14'-1&quot;*</td>
</tr>
<tr>
<td>5 1/4</td>
<td>16'-9&quot;</td>
<td>16'-4&quot;</td>
<td>15'-3&quot;</td>
</tr>
<tr>
<td>5 1/2</td>
<td>17'-5&quot;</td>
<td>16'-11&quot;</td>
<td>15'-10&quot;</td>
</tr>
<tr>
<td>6</td>
<td>18'-7&quot;</td>
<td>18'-1&quot;</td>
<td>16'-11&quot;</td>
</tr>
<tr>
<td>6 3/4</td>
<td>20'-4&quot;</td>
<td>19'-10&quot;</td>
<td>18'-0&quot;</td>
</tr>
<tr>
<td>7</td>
<td>20'-10&quot;</td>
<td>20'-4&quot;</td>
<td>18'-3&quot;</td>
</tr>
<tr>
<td>7 1/2</td>
<td>21'-10&quot;</td>
<td>20'-11&quot;</td>
<td>18'-10&quot;</td>
</tr>
<tr>
<td>8</td>
<td>22'-4&quot;</td>
<td>21'-6&quot;</td>
<td>19'-5&quot;</td>
</tr>
</tbody>
</table>

## Versa-Dek® XLS | Maximum Spans for 20 Gauge

<table>
<thead>
<tr>
<th>Total Slab Depth (inches)</th>
<th>Simple Span</th>
<th>Continuous Span</th>
<th>Maximum Unshored Construction Clear Span for 20 GA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>13'-11&quot;*</td>
<td>13'-6&quot;*</td>
<td>12'-6&quot;*</td>
</tr>
<tr>
<td>4 3/4</td>
<td>15'-11&quot;*</td>
<td>15'-5&quot;*</td>
<td>14'-4&quot;*</td>
</tr>
<tr>
<td>5 1/4</td>
<td>17'-2&quot;</td>
<td>16'-8&quot;</td>
<td>15'-7&quot;*</td>
</tr>
<tr>
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<td>17'-9&quot;</td>
<td>17'-4&quot;</td>
<td>16'-2&quot;*</td>
</tr>
<tr>
<td>6</td>
<td>19'-0&quot;</td>
<td>18'-6&quot;</td>
<td>17'-4&quot;</td>
</tr>
<tr>
<td>6 3/4</td>
<td>20'-9&quot;</td>
<td>20'-3&quot;</td>
<td>19'-0&quot;</td>
</tr>
<tr>
<td>7</td>
<td>21'-3&quot;</td>
<td>20'-9&quot;</td>
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</tr>
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<td>22'-5&quot;</td>
<td>21'-11&quot;</td>
<td>20'-7&quot;</td>
</tr>
<tr>
<td>8</td>
<td>23'-6&quot;</td>
<td>23'-0&quot;</td>
<td>21'-3&quot;</td>
</tr>
</tbody>
</table>

General Notes:
1. Spans marked with an asterisk(*) require one (1) line of shoring. Shaded areas require three (3) lines of shoring. All other spans require two (2) lines of shoring.
2. All designs are based on the use of regular weight concrete (145 pcf), with a compressive strength of 4000 psi. Contact the DEK Design Team® on 3,000 psi or lightweight concrete.
3. No reinforcing steel other than Versa-Dek® XLS required for simple spans. Reinforcing steel required over interior supports for continuous spans. Reinforcing over supports should extend a minimum of 0.3 X L on both sides of the supports.
4. Maximum allowable deflection under the total superimposed load (live + dead) is limited to L/360.
BE INSPIRED

Great design often flows from unfettered ideas—from inspiration. The Metal Dek Group® offers you the flexibility to realize your unique vision. We’ve created products that do what other decks can’t: Release Your Imagination!

DEK SELECTORM™ - Tell us about your current project

What kind of structure are you building?
Structure

What application do you need?
Application

Download thousands of standard details and other useful files!

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Product and Event News

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Ask the Dek Design Team®

We’re here to help you realize your vision.

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Licensed Section 05310 - Steel Deck Specification

Product Profile: Bridge Dek™

Stay in place form systems for concrete and steel bridge structures.