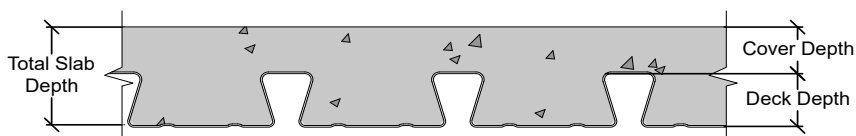


# VULCRAFT® COMPOSITE DECKS with BEKAERT DRAMIX® STEEL FIBERS



## Minimum Reinforcing Options for Temperature and Shrinkage $f'_c = 3000$ psi

### Recommended Reinforcing for Temperature and Shrinkage

| Cover Depth<br>(in.)             | Min. A <sub>s</sub><br>for T&S<br>(in. <sup>2</sup> ) | WWR           | (OR) | Bekaert Dramix® Steel Fiber |
|----------------------------------|-------------------------------------------------------|---------------|------|-----------------------------|
|                                  |                                                       |               |      | Alternate to WWR (lb/yd³)   |
|                                  |                                                       |               |      | 4D 65/60BG                  |
| Normal Weight Concrete (145 pcf) |                                                       |               |      |                             |
| 2                                | 0.028                                                 | 6x6-W1.4xW1.4 |      | 23                          |
| 2¼                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 20                          |
| 2½                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 18                          |
| 2¾                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 16                          |
| 3                                | 0.028                                                 | 6x6-W1.4xW1.4 |      | 15                          |
| 3¼                               | 0.029                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 3½                               | 0.032                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 3¾                               | 0.034                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 4                                | 0.036                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 4¼                               | 0.038                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 4½                               | 0.041                                                 | 6x6-W2.1xW2.1 |      | 15                          |
| 4¾                               | 0.043                                                 | 6x6-W2.9xW2.9 |      | 15                          |
| 5                                | 0.045                                                 | 6x6-W2.9xW2.9 |      | 15                          |
| 6                                | 0.054                                                 | 6x6-W2.9xW2.9 |      | 15                          |
| Light Weight Concrete (110 pcf)  |                                                       |               |      |                             |
| 2                                | 0.028                                                 | 6x6-W1.4xW1.4 |      | 33                          |
| 2¼                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 28                          |
| 2½                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 25                          |
| 2¾                               | 0.028                                                 | 6x6-W1.4xW1.4 |      | 22                          |
| 3                                | 0.028                                                 | 6x6-W1.4xW1.4 |      | 20                          |
| 3¼                               | 0.029                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 3½                               | 0.032                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 3¾                               | 0.034                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 4                                | 0.036                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 4¼                               | 0.038                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 4½                               | 0.041                                                 | 6x6-W2.1xW2.1 |      | 20                          |
| 4¾                               | 0.043                                                 | 6x6-W2.9xW2.9 |      | 20                          |
| 5                                | 0.045                                                 | 6x6-W2.9xW2.9 |      | 20                          |
| 6                                | 0.054                                                 | 6x6-W2.9xW2.9 |      | 20                          |

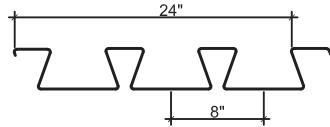
#### Notes:

1. FRC reinforcement is based on IAPMO UES ER-465.
2. Dramix® fibers may be used in UL or ULC fire rated assemblies in lieu of WWR. See UL file R19307 for additional information.

For information on Bekaert Dramix® fibers contact 770-514-2295 or [infobuilding@bekaert.com](mailto:infobuilding@bekaert.com).

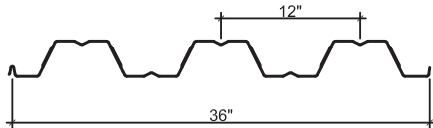
# VULCRAFT® COMPOSITE DECKS with BEKAERT DRAMIX® STEEL FIBERS

## 3½" Deep Decks



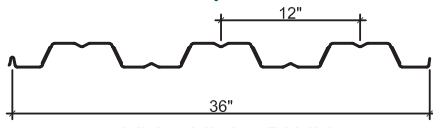
3.5DS, 3.5DF FormLok®

## 3" Deep Decks

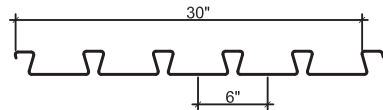


3VLI, 3VLJ, 3PLVLI

## 2" Deep Decks

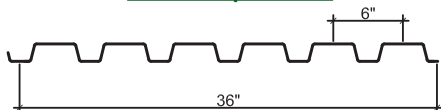


2VLI, 2VLJ, 2PLVLI



2.0DS, 2.0DF FormLok®

## 1½" Deep Decks



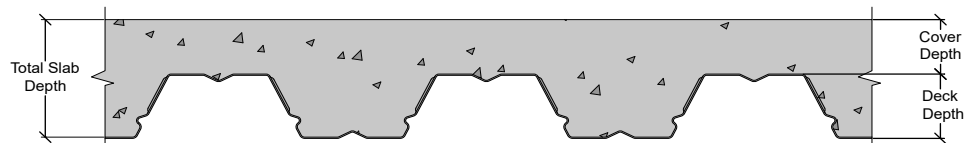
1.5VL, 1.5VLI, 1.5PLVLI



1.5VLR

## Composite Deck Slab

| Total Slab<br>Depth<br>(in.) | Cover Depth (in.)        |                       |                                        |                                       |
|------------------------------|--------------------------|-----------------------|----------------------------------------|---------------------------------------|
|                              | 3½" Deep<br>Decks        | 3" Deep<br>Decks      | 2" Deep<br>Decks                       | 1½" Deep<br>Decks                     |
|                              | Vulcraft Composite Decks |                       |                                        |                                       |
|                              | 3.5DS, 3.5DF             | 3VLI, 3VLJ,<br>3PLVLI | 2VLI, 2VLJ,<br>2PLVLI,<br>2.0DS, 2.0DF | 1.5VL, 1.5VLI,<br>1.5PLVLI,<br>1.5VLR |
| 3 1/2                        | -                        | -                     | -                                      | 2                                     |
| 3 3/4                        | -                        | -                     | -                                      | 2 1/4                                 |
| 4                            | -                        | -                     | 2                                      | 2 1/2                                 |
| 4 1/4                        | -                        | -                     | 2 1/4                                  | 2 3/4                                 |
| 4 1/2                        | -                        | -                     | 2 1/2                                  | 3                                     |
| 4 3/4                        | -                        | -                     | 2 3/4                                  | 3 1/4                                 |
| 5                            | -                        | 2                     | 3                                      | 3 1/2                                 |
| 5 1/4                        | -                        | 2 1/4                 | 3 1/4                                  | 3 3/4                                 |
| 5 1/2                        | 2                        | 2 1/2                 | 3 1/2                                  | 4                                     |
| 5 3/4                        | 2 1/4                    | 2 3/4                 | 3 3/4                                  | 4 1/4                                 |
| 6                            | 2 1/2                    | 3                     | 4                                      | 4 1/2                                 |
| 6 1/4                        | 2 3/4                    | 3 1/4                 | 4 1/4                                  | 4 3/4                                 |
| 6 1/2                        | 3                        | 3 1/2                 | 4 1/2                                  | 5                                     |
| 6 3/4                        | 3 1/4                    | 3 3/4                 | 4 3/4                                  | 5 1/4                                 |
| 7                            | 3 1/2                    | 4                     | 5                                      | 5 1/2                                 |
| 7 1/4                        | 3 3/4                    | 4 1/4                 | 5 1/4                                  | 5 3/4                                 |
| 7 1/2                        | 4                        | 4 1/2                 | 5 1/2                                  | 6                                     |
| 7 3/4                        | 4 1/4                    | 4 3/4                 | 5 3/4                                  | -                                     |
| 8                            | 4 1/2                    | 5                     | 6                                      | -                                     |
| 9                            | 5 1/2                    | 6                     | -                                      | -                                     |
| 9 1/2                        | 6                        | -                     | -                                      | -                                     |



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