

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

| TABLE              | DECK                                       | APPLICATION              | TYPE | DESCRIPTION                         | PAGE |
|--------------------|--------------------------------------------|--------------------------|------|-------------------------------------|------|
| <a href="#">1A</a> | Wood                                       | New or Reroof (Tear-Off) | A-1  | Bonded Waterproofing, Insulation    | 2    |
| <a href="#">1B</a> | Wood                                       | New or Reroof (Tear-Off) | F    | Non-Insulated, Bonded Waterproofing | 2    |
| <a href="#">2A</a> | Structural concrete                        | New or Reroof (Tear-Off) | A-1  | Bonded Waterproofing, Insulation    | 3    |
| <a href="#">2B</a> | Structural concrete                        | New or Reroof (Tear-Off) | F    | Non-Insulated, Bonded Waterproofing | 4    |
| <a href="#">3A</a> | Lightweight concrete / structural concrete | New or Reroof (Tear-Off) | A-1  | Bonded Waterproofing, Insulation    | 5    |
| <a href="#">3B</a> | Lightweight concrete / structural concrete | New or Reroof (Tear-Off) | F    | Non-Insulated, Bonded Waterproofing | 6    |

The following notes apply to the systems outlined herein:

|   | NON-HVHZ JURISDICTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HVHZ JURISDICTIONS (I.E., BROWARD AND MIAMI-DADE COUNTIES)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC HVHZ requirements to the satisfaction of the Authority Having Jurisdiction.                                                                                                                                                                                                                                                                    |
| 2 | Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3 | For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of <a href="#">FM Loss Prevention Data Sheet</a> 1-29 (February 2020).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bonded insulation boards shall be maximum 4 x 4 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4 | For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | For assemblies marked with an asterisk*, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.                                                                                                                                                                                                                                            |
| 5 | For bonded insulation or membrane over existing substrates in a re-roof (tear off) installation, the existing deck roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. Field uplift testing shall be in accordance with <a href="#">ASTM E907</a> , <a href="#">FM Loss Prevention Data Sheet</a> 1-52 or <a href="#">Testing Application Standard</a> TAS 124.                                                                                                                                                                                                                                                                                                                                                                                                                                             | For bonded insulation or membrane over existing substrates in a re-roof (tear off) installation, the existing deck surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. Field uplift testing shall be in accordance with <a href="#">Testing Application Standard</a> TAS 124. |
| 6 | Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 7 | Overburden of soil and plantings (for 'garden roofs'; root barriers, filter fabric, drainage components, EPS / XPS insulation, etc.) or concrete topping slabs, that are specified by the Designer of Record, acceptable to the Authority Having Jurisdiction and do not form part of the load path to the waterproofing system, are permissible over the assemblies noted herein with no adverse effect on the wind uplift performance of the system. The Authority Having Jurisdiction may require integrity flood testing (ASTM D5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of overburden materials. Testing, if required by the Authority Having Jurisdiction, should be conducted by a qualified testing agency or professional.                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 8 | "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and <a href="#">Roofing Application Standard</a> RAS 128 for determination of design wind loads.                                                                                                                                                                                                                                                 |

**TABLE 1A: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED WATERPROOFING, BONDED INSULATION**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| System No. | Deck (Note 1)                                                          | Primer                     | Waterproofing                                                      |                                                        | Protection Layer                                                            | Insulation Layer                       |                                                         | Overburden (Note 7)                                                                                                                                                    | MDP (psf) |
|------------|------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|            |                                                                        |                            | Base Ply(s)                                                        | Top                                                    |                                                                             | Type                                   | Attach                                                  |                                                                                                                                                                        |           |
| W-1.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | (Optional) Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq. | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurengo Adhesive at 1.5 – 2.0 gal/sq. | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -100.0    |
| W-2.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.            | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurengo Adhesive at 1.5 – 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                          | -120.0    |

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED WATERPROOFING COVER**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| System No. | Deck (Note 1)                                                          | Primer                     | Waterproofing                                                      |                                                        | Protection Layer                                                                            | Overburden (Note 7)                                                                                                                                                                                                                    | MDP (psf) |
|------------|------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|            |                                                                        |                            | Base Ply(s)                                                        | Top                                                    |                                                                                             |                                                                                                                                                                                                                                        |           |
| W-3.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Hanover Guardian Paver System; Guardian Pedestal Base adhered to protection layer in Rezi-Weld Gel Paste or Sikadur® 31 at full-coverage on the Guardian Pedestal Base.                                                                | -67.5     |
| W-4.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into modified thin-set mortar (ANSI A118.4) with a notched trowel or dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -120.0    |
| W-5.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | None                                                                                        | Min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in a 2-inch thick mortar bed.                                                                                                               | -120.0    |
| W-6.       | Min. 15/32" APA rated plywood, max. 24" span, #10 wood screws, 6" o.c. | (Optional) ASTM D41 primer | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC, Laurengo PPC, Laurengo G or Laurengo G FR in Laurengo Adhesive at 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                                                                                          | -120.0    |

**TABLE 2A: CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED WATERPROOFING, BONDED INSULATION**

| System No. | Deck<br>( <a href="#">Note 1</a> ) | Primer                     | Waterproofing                                                      |                                                        | Protection Layer                                                                                       | Drainage Media | Insulation Layer                                         |                                                                    | Overburden ( <a href="#">Note 7</a> )                                                                                                                                  | MDP<br>( <a href="#">psf</a> )* |
|------------|------------------------------------|----------------------------|--------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|            |                                    |                            | Base Ply(s)                                                        | Top                                                    |                                                                                                        |                | Type                                                     | Attach                                                             |                                                                                                                                                                        |                                 |
| C-1.       | Structural Concrete                | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | (Optional) Laurenco SPC, Laurenco PPC, Laurenco G or Laurenco G FR in Laurenco Adhesive at 2.0 gal/sq. | J-DRain®       | Min. 1.5-inch Dupont Styrofoam High Load 60 or PlazaMate | Spot adhered to drainage board with Laurenco Trowel Grade Adhesive | Structural concrete topping slab                                                                                                                                       | N/A                             |
| C-2.       | Structural Concrete                | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC, Laurenco PPC, Laurenco G or Laurenco G FR in Laurenco Adhesive at 2.0 gal/sq.            | None           | Min. 1.5-inch Dupont Styrofoam High Load 60 or PlazaMate | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq.            | Structural concrete topping slab                                                                                                                                       | N/A                             |
| C-3.       | Structural Concrete                | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | (Optional) Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.                            | None           | Min. 2-inch Dupont Styrofoam PlazaMate                   | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq.            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -100.0                          |
| C-4.       | Structural Concrete                | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.                                       | None           | Min. 2-inch Dupont Styrofoam PlazaMate                   | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq.            | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                          | -170.0                          |

**TABLE 2B: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED WATERPROOFING COVER**

| System No. | Deck <a href="#">(Note 1)</a> | Primer                     | Waterproofing                                                      |                                                        | Protection Layer                                                                                       | Drainage Media                                                  | Overburden <a href="#">(Note 7)</a>                                                                                                                                     | MDP <a href="#">(psf)*</a> |
|------------|-------------------------------|----------------------------|--------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|            |                               |                            | Base Ply(s)                                                        | Top                                                    |                                                                                                        |                                                                 |                                                                                                                                                                         |                            |
| C-5.       | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | (Optional) Laurenco SPC, Laurenco PPC, Laurenco G or Laurenco G FR in Laurenco Adhesive at 2.0 gal/sq. | J-DRain® <i>(required if Protection Layer is not installed)</i> | Concrete topping slab                                                                                                                                                   | N/A                        |
| C-6.       | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.                                       | None                                                            | Hanover Guardian Paver System; Guardian Pedestal Base adhered to protection layer in Rezi-Weld Gel Paste or Sikadur® 31 at full-coverage on the Guardian Pedestal Base. | -67.5                      |
| C-7.       | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.                                       | None                                                            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into modified thin-set mortar (ANSI A118.4) with a notched trowel.                 | -155.0                     |
| C-8.       | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | None                                                                                                   | None                                                            | Min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in a 2-inch thick mortar bed.                                                | -242.5                     |
| C-9.       | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.                                       | None                                                            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5.  | -247.5                     |
| C-10.      | Structural concrete           | (Optional) ASTM D41 primer | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC, Laurenco PPC, Laurenco G or Laurenco G FR in Laurenco Adhesive at 2.0 gal/sq.            | None                                                            | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                           | -247.5                     |

**TABLE 3A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED WATERPROOFING, BONDED INSULATION**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| System No.                           | Deck<br>( <a href="#">Note 1</a> ) | Lightweight Concrete<br>( <a href="#">Note 6</a> )                                  | Waterproofing                                                      |                                                        | Protection Layer                                                            | Drainage Media | Insulation Layer                       |                                                         | Overburden ( <a href="#">Note 7</a> )                                                                                                                                  | <a href="#">MDP (psf)*</a> |
|--------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------|----------------|----------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                                      |                                    |                                                                                     | Base Ply(s)                                                        | Top                                                    |                                                                             |                | Type                                   | Attach                                                  |                                                                                                                                                                        |                            |
| CELCORE (FL2037, NOA 18-0717.05):    |                                    |                                                                                     |                                                                    |                                                        |                                                                             |                |                                        |                                                         |                                                                                                                                                                        |                            |
| LWC-1.                               | Structural Concrete                | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | (Optional) Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq. | None           | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq. | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -100.0                     |
| LWC-2.                               | Structural Concrete                | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.            | None           | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                          | -127.5                     |
| ELASTIZELL (FL4994, NOA 18-0208.03): |                                    |                                                                                     |                                                                    |                                                        |                                                                             |                |                                        |                                                         |                                                                                                                                                                        |                            |
| LWC-1.                               | Structural Concrete                | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | (Optional) Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq. | None           | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq. | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -100.0                     |
| LWC-2.                               | Structural Concrete                | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurenco Sheet in Laurenco Adhesive at 1.5-2.0 gal/sq. | Laurenco Sheet in Laurenco Adhesive at 0.75-1.0 gal/sq | Laurenco SPC or Laurenco PPC in Laurenco Adhesive at 2.0 gal/sq.            | None           | Min. 2-inch Dupont Styrofoam PlazaMate | Fully adhered in Laurenco Adhesive at 1.5 – 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                          | -142.5                     |

**TABLE 3B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED WATERPROOFING COVER**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| System No.                           | Deck (Note 1)       | Lightweight Concrete (Note 6)                                                       | Waterproofing                                                      |                                                        | Protection Layer                                                                            | Overburden (Note 7)                                                                                                                                                                                                                    | MDP (psf) |
|--------------------------------------|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                      |                     |                                                                                     | Base Ply(s)                                                        | Top                                                    |                                                                                             |                                                                                                                                                                                                                                        |           |
| CELCORE (FL2037, NOA 18-0717.05):    |                     |                                                                                     |                                                                    |                                                        |                                                                                             |                                                                                                                                                                                                                                        |           |
| LWC-3.                               | Structural concrete | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Hanover Guardian Paver System; Guardian Pedestal Base adhered to protection layer in Rezi-Weld Gel Paste or Sikadur® 31 at full-coverage on the Guardian Pedestal Base.                                                                | -67.5     |
| LWC-4.                               | Structural concrete | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into modified thin-set mortar (ANSI A118.4) with a notched trowel or dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -127.5    |
| LWC-5.                               | Structural concrete | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | None                                                                                        | Min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in a 2-inch thick mortar bed.                                                                                                               | -127.5    |
| LWC-6.                               | Structural concrete | Min. 350 psi, min 2-inch thick Celcore Cellular Concrete.                           | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC, Laurengo PPC, Laurengo G or Laurengo G FR in Laurengo Adhesive at 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                                                                                          | -127.5    |
| ELASTIZELL (FL4994, NOA 18-0208.03): |                     |                                                                                     |                                                                    |                                                        |                                                                                             |                                                                                                                                                                                                                                        |           |
| LWC-7.                               | Structural concrete | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Hanover Guardian Paver System; Guardian Pedestal Base adhered to protection layer in Rezi-Weld Gel Paste or Sikadur® 31 at full-coverage on the Guardian Pedestal Base.                                                                | -67.5     |
| LWC-8.                               | Structural concrete | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC or Laurengo PPC in Laurengo Adhesive at 2.0 gal/sq.                            | Min. 12x12-inch ceramic plaza deck tiles or min. 24x24-inch concrete pavers embedded into modified thin-set mortar (ANSI A118.4) with a notched trowel or dry-set Portland cement mortar (ANSI A118.1) in accordance with ANSI A108.5. | -142.5    |
| LWC-9.                               | Structural concrete | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | None                                                                                        | Min. 24x24-inch concrete pavers embedded into dry-set Portland cement mortar (ANSI A118.1) in a 2-inch thick mortar bed.                                                                                                               | -142.5    |
| LWC-10.                              | Structural concrete | Min. 250 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete. | One or more Laurengo Sheet in Laurengo Adhesive at 1.5-2.0 gal/sq. | Laurengo Sheet in Laurengo Adhesive at 0.75-1.0 gal/sq | Laurengo SPC, Laurengo PPC, Laurengo G or Laurengo G FR in Laurengo Adhesive at 2.0 gal/sq. | As specified by the Designer of Record and acceptable to the AHJ. See Note 7.                                                                                                                                                          | -142.5    |