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**Celcore Inc, 775 US Hwy 70 W, Black Mountain NC 28711**

Roof Covers: Hot asphalt applied BUR and Modified Bitumen roof coverings and Single Ply  
Deck: Celcore Cellular Concrete

**Construction #1:** Steel Form Deck Construction — A slurry coat of Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed on the deck filling the corrugations plus min 1/8 in. (3 mm) thick above the top flange immediately followed by a single layer of min 1 in. (25 mm) thick Apache, Carpenter or Cellofoam Holey Board Polystyrene Insulation. The following day, min 2 in. (50 mm) thick Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed. After setting to support foot traffic, Celcore PVA Curing Compound is applied at a nominal rate of 300 ft<sup>2</sup>/gal (7.2 m<sup>2</sup>/L). After curing several days, a roof covering is applied as described in Constructions #4, #4a, #4b, #4c, #5, #5a, #5b, #5c and #5d.

**Construction #2:** Structural Concrete Deck, New or Recover Construction — New Structural concrete deck is covered with hot asphalt applied vapor retarder (optional). Min 1/8 in. (3 mm) thick slurry coat of Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed on the deck, hot asphalt applied vapor retarder or existing hot asphalt adhered BUR roof followed by a single layer of min 1 in. (25 mm) thick Apache, Carpenter or Cellofoam Holey Board Polystyrene Insulation. The remainder of the Celcore Cellular Concrete system is constructed as described in Construction #1 above. After curing several days, a roof covering is applied as described in Constructions #6, #6a, #6b, #6c, #7, #7a, #7b or #7c.

**Construction #3:** Structural Concrete Deck, New or Recover Construction. Min 2 in. (50 mm) thick Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed on the substrates described in Construction #2 followed by Celcore PVA Curing Compound applied as in Construction #1. After curing several days a roof covering is applied as described in Constructions #6, #6a, #6b, #6c, #7, #7a, #7b or #7c.

**Construction #4:** Steel Form Deck, New Construction. Min 0.029 in. (0.74 mm) thick, 1.5 in. (40 mm) deep Wheeling Corrugating Company BW galvanized deck is secured to min 0.25 in. (6.4 mm) thick structural supports with ITW Buildex ICH Traxx/5 screws placed at each bottom rib [6 in. (152 mm) o.c.] with structural supports spaced at max 4 ft (1.2 m) o.c. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density is placed as described in Construction #1. Min 0.048 in. (1.2 mm) thick Sarnafil G410 Felt Back roof cover is then adhered with Sarnacol 2121 Adhesive squeegee [1/4x1/4 in. (6.4x6.4 mm) notches] applied at a nominal rate of 2.25 gal/sq (0.92 L/m<sup>2</sup>) or with Sarnacol 2170 Adhesive roller applied as a primer at a rate of 0.8 to 1.0 gal/sq<sup>2</sup> (0.33 to 0.41 L/m<sup>2</sup>) and allowed to dry followed by a second coat of Sarnacol 2170 roller applied at the same rate. The roof cover is immediately rolled into the wet adhesive and rolled with a weighted roller and the seams sealed with a min 1.5 in. (40 mm) wide heat weld. Meets Class 1-180.

**Construction #4a:** Steel Form Deck, New Construction. Steel form deck per Construction #4 is secured to structural supports spaced at a max of 5 ft (1.5 m) o.c. as described in Construction #4. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1 followed by Sarnafil G410 Felt Back applied as described in Construction #4. Meets Class 1-165.

**Construction #4b:** Steel Form Deck, New Construction. Steel form deck per Construction #4 is secured to structural supports spaced at max 6 ft (1.9 m) o.c. as described in Constructions #4 or #4 with the addition of two deck side lap fasteners evenly spaced between supports. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1 utilizing a min 2.5 in. (65 mm) thick top coat of Celcore Cellular Concrete followed by Sarnafil G410 Felt Back adhered as in Construction #4. Meets Class 1-120.

**Construction #4c:** Steel Form Deck, New Construction. Steel form deck per Construction #4 is secured to structural supports spaced at max 5 ft (1.5 m) o.c. with min 5/8 in. (16 mm) dia. puddle welds or with 1/2 in. (13 mm) dia. puddle welds and washers placed at every corrugation and at each support where sides lap or as described in Constructions #4 and #4a. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is then placed as described

in Construction #1 followed by Sarnafil G410 Felt Back adhered as in Construction #4 or by Flex Membrane Flex FB White Tripolymer adhered as in Constructions #6a or #6b or a GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Eliminator Venting Base Sheet (Nailable) or DynaBase, Ventsulation Base Sheet or a Tremco BURmastic Composite Ply Base Sheet, max 39.37 in. (1000 mm) wide, secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic CR Base Felt Fasteners and Discs or ITW Buildex Lite Weight Concrete Fasteners and Discs or GAF Drill.Tec Base Sheet Fasteners and Plates or Danosa Glasdan R-36, Esterdan R-36-4 or Garland HPR Tribase or Hickman Performance Ply, Multi Ply Glas or Johns Manville, Dynalastic 180S, Glas Ply Premier, Glasbase Plus or Soprema Glass Base, Sopra VI or Tamko Versa-Base, Glass-Base, Vapor-Chan, Base-N-Ply base sheet, max 39.37 in. (1000 mm) wide, secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic CR Base Felt Fasteners and Discs spaced at max 7 in. (178 mm) o.c. through min 3 in. (76 mm) wide laps and at max 7 in. (178 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 3.5 in. (89 mm) from lap fasteners. A min 3-ply glass felt hot asphalt applied BUR or min 2-ply hot asphalt adhered modified bitumen roof covering is then applied. Meets Class 1-90.

**Construction #4d:** Steel Form Deck, New Construction. Steel form deck per Construction #4 is secured to structural supports as described in Constructions #4, #4a, #4b or #4c above. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1. After curing several days, GAFGLAS #80 Premium Base Sheet or Stratavent Eliminator Venting Base Sheet (Nailable) max 39.37 in. (1000 mm) wide is secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic CR Base Felt Fasteners and Discs or ITW Buildex Lite Weight Concrete Fasteners and Discs or GAF Drill.Tec Base Sheet Fasteners and Plates spaced at max 7 in. (178 mm) o.c. through min 3 in. (76 mm) wide laps and at max 7 in. (178 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 3.5 in. (89 mm) from lap fasteners. ACFoam-II or Multi-Max FA is placed with all joints staggered and adhered with hot asphalt applied at a nominal rate of 20-25 lb/sq (1.0-1.2 kg/m<sup>2</sup>) in single or multiple layers — See insulation listings. An Approved Seaman single-ply roof cover is applied per roof cover listings. Meets Class 1-90.

**Construction #4e:** Steel form deck and Celcore Cellular Concrete, same as Construction #4c. Danosa Glasdan R-36, Esterdan R-36-4, Basedan II; Garland HPR Tribase, HPR Glasbase, HPR Premium Glasbase; Hickman Performance Ply, Multi Ply Glas; J. Manville Dynalastic 180S, Glasbase, Permaply-28, Glas Ply Premier, Glas Ply IV, Glasbase Plus; Soprema Glass Base, Sopra IV, Sopra VI; Tamko Versa Base, Glass Base, Base-N-Ply, Firestone APP 80 Glass Base, MB Base Sheet, APP 160, SBS Base Sheet, SBS Premium Base Sheet, SBS Smooth, SBS Poly Base max 39.37 in. (1000 mm) wide, secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic CR Base Felt Fasteners and Discs spaced at max 7 in. (178 mm) o.c. through min 3 in. (76 mm) wide laps and at max 7 in. (178 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 3.5 in. (89 mm) from lap fasteners. A min three-ply glass felt hot asphalt applied BUR or min three-ply hot asphalt adhered modified bitumen roof covering is then applied. Meets Class 1-90.

**Construction #4f:** Steel form deck and Celcore Cellular Concrete, same as Construction #4c. Firestone APP 80 Glass Base, MB Base Sheet, APP 160, SBS Base Sheet, SBS Premium Base Sheet, SBS Smooth, SBS Poly Base max 39.37 in. (1000 mm) wide, secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic CR Base Felt Fasteners and Discs spaced at max 7 in. (178 mm) o.c. through min 3 in. (76 mm) wide laps and at max 7 in. (178 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 3.5 in. (89 mm) from lap fasteners. The base sheet is covered with 2 plies of Firestone Type IV Ply Felt, each fully adhered with hot asphalt. Firestone APP 180 FR Cap sheet is torched applied. Meets Class 1-90.

**Construction #5:** Steel Form Deck, New Construction. Min 0.0179 in. (0.45 mm) thick Tensiform S-75 form deck or min 0.0205 in. (0.52 mm) thick Tensiform 75 form deck by Wheeling Corrugating Company is secured to the structural supports with Approved deck fasteners or with 1/2 in. (13 mm) dia. puddle welds and washers placed at every other corrugation [7.5 in. (191 mm) o.c.] and at each support where sides lap. Structural supports are spaced at max of 5 ft (1.5 m) o.c. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1 and covered with a roof covering installed as described in Constructions #5a, #5b #5c or #5d below. Meets Class 1-60.

**Construction #5a:** Celotex Vapor Bar Base Sheet, min 4 in. (102 mm) wide laps or Johns Manville PermaPly No. 28 Base Sheet, min 3 in. (76 mm) wide laps, both max 36 in. (914 mm) wide is secured to the deck with ES Products FM-90 Base Ply Fasteners or with Olympic C-R Base Felt Fasteners and Discs spaced max 8 in. (203 mm) o.c. through the laps and at max 16 in. (406 mm) o.c. staggered in two rows in the field of the sheet. The base sheet is covered with a min 3 ply glass felt hot asphalt applied BUR or a min 3 ply hot asphalt adhered modified bitumen roof covering. Meets Class 1-75.

**Construction #5b:** Soprema Sopra G Base Sheet, 36.37 in. (1000 mm) wide is secured to the deck with either ES Products FM-90 Base Ply Fasteners or with Olympic C-R Base Felt Fasteners and Discs spaced max 6 in. (152 mm) o.c. through min 4 in. (102 mm) wide laps and at max 12 in. (305 mm) o.c. staggered in two rows in the field of the sheet. The base sheet is covered with min 3 ply glass felt hot asphalt applied BUR or min 2 ply hot asphalt adhered modified bitumen roof cover. Meets Class 1-60.

**Construction #5c:** GAF GAFGLAS #75 Base Sheet or US Intec Ultra Base, 39.37 in. (1000 mm) wide with min 2 in. (50 mm) wide laps is secured to the deck with ES Products FM-90 Base Ply Fasteners or with Olympic C-R Base Felt Fasteners and Discs spaced at max 8 in. (203 mm) o.c. through the laps and max 8 in. (203 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 4 in. (102 mm) from lap fasteners. The base sheet is then covered with a min 3 ply glass felt hot asphalt applied BUR or a min of 1 ply of hot asphalt adhered or torch adhered modified bitumen roof cover. Meets Class 1-75.

**Construction #5d:** Sarnafil G410 Felt Back is applied as described in Construction #4 or Flex Membrane Flex FB White Tripolymer applied as in Constructions #6a or #6b. Meets Class 1-75.

**Construction #5e:** Danosa Glasdan R-36, Esterdan R-36-4, Basedan II; Garland HPR Tribase, HPR Glasbase, HPR Premium Glasbase; Hickman Performance Ply, Multi Ply Glas; J. Manville Dynalastic 180S, Dynabase, Glasbase, Permaply-28, Glas Ply Premier, Glas Ply IV, Glasbase Plus; Soprema Glass Base, Sopra IV, Sopra VI; Tamko Versa Base, Glass Base, Base-N-Ply, max 39.37 in. (1000 mm) wide with min 2 in. (50 mm) wide laps is secured to the deck with ES Products FM-90 Base Ply Fasteners or Olympic C-R Base Felt Fasteners and Discs spaced at max 8 in. (203 mm) o.c. through the laps and max 8 in. (203 mm) o.c. in two rows in the field of the sheet. The lap fasteners are in-line perpendicular to the laps. The fastener rows in the field of the sheet are evenly spaced between side laps with the fasteners in these rows offset 4 in. (102 mm) from lap fasteners. The base sheet is then covered with a min three-ply glass felt hot asphalt applied BUR or a min of one-ply of hot asphalt adhered or torch adhered modified bitumen roof cover. Meets Class 1-60.

**Construction #6:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for new construction. Sarnafil G410 is then applied as described in Construction #4. Meets Class 1-270.

**Construction #6a:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for new construction. The deck is coated with Celcore PVA curing compound applied as in Construction #1 or is primed with Monsey Asphalt Primer applied at a rate of 200 ft<sup>2</sup>/gal (4.8 m<sup>2</sup>/L). After drying overnight, min 0.045 in. (1.1 mm) thick Flex Membrane Flex FB White Tripolymer felt backed roof cover or Ecology ERS 8000 fleece backed roof cover is adhered with hot asphalt. The roof cover is then rolled with a weighted roller and the seams sealed with a min 2 in. (50 mm) wide heat weld or with Tetrohydrofuron. Meets Class 1-270.

**Construction #6b:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for new construction. The deck is coated with Celcore PVA curing compound applied as in Construction #1 or is primed with Monsey Asphalt Primer applied at a rate of 200 ft<sup>2</sup>/gal (4.8 m<sup>2</sup>/L). After drying overnight, min 0.045 in. (1.1 mm) thick Flex Membrane Flex FB White Tripolymer felt backed roof cover is adhered with Flex Rubber Emulsion Adhesive applied at a rate of 60 ft<sup>2</sup>/gal (1.4 m<sup>2</sup>/L), or min 0.045 in. (1.1 mm) thick Ecology ERS 8000 fleece backed roof cover is adhered with ERS 8001 water based adhesive applied at a rate of 60 ft<sup>2</sup>/gal (1.4 m<sup>2</sup>/L). The roof cover is then rolled with a weighted roller and the seams sealed with a min 2 in. (50 mm) wide heat weld or with Tetrohydrofuron. Meets Class 1-210.

**Construction #6c:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for new construction followed by a glass felt or modified bitumen roof cover as described in Construction #4c. Meets Class 1-90.

**Construction #6d:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for new construction followed by a glass felt or modified bitumen roof cover as described in Construction #5a, #5b or #5c. Meets Class 1-60.

**Construction #7:** Structural Concrete Deck, Recover Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for recover construction. Sarnafil G410 Felt Back is then applied as described in Construction #4 or Flex Membrane Flex FB White Tripolymer felt backed roof cover or Ecology 8000 fleece backed roof cover is then applied as in Construction #6a. Meets wind uplift rating of the existing roof, max Class 1-270.

**Construction #7a:** Structural Concrete Deck, Recover Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is placed as described in Constructions #2 or #3 for recover construction. Flex Membrane Flex FB White Tripolymer felt backed roof cover or Ecology 8000 fleece backed roof cover is then applied as in Construction #6b. Meets wind uplift rating of the existing roof, max Class 1-210.

**Construction #7b:** Structural Concrete Deck, Recover Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is as described in Constructions #2 or #3 for recover construction followed by a glass felt or modified bitumen built up roof covering as described in Construction #4c. Meets wind uplift rating of the existing roof, max Class 1-90.

**Construction #7c:** Structural Concrete Deck, Recover Construction. Celcore Cellular Concrete, min 36 lb/ft<sup>3</sup> (577 kg/m<sup>3</sup>) wet cast density, is as described in Constructions #2 or #3 for recover construction followed by a glass felt or modified bitumen roof cover as described in Construction #5a, #5b, #5c. Meets the wind uplift rating of the existing roof, max Class 1-60.

**Construction #8:** Steel Form Deck, New Construction. Min 0.029 in. (0.74 mm) thick, 1.5 in. (40 mm) deep Marlyn Steel Decks or Wheeling Corrugating Company Type B Wide Rib galvanized deck is secured to the structural supports spaced at max 5 ft (1.5 m) o.c. with ½ in. (13 mm) diameter puddle welds and washers placed at every corrugation and at each support where side lap or as described in Constructions #4. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. Celcore Cellular Concrete, min 42 pcf (673 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1. A base sheet with roof cover is then secured as described in Construction #4c. Meets Class 1-150.

**Construction #8a:** Steel Form Deck, New Construction. Steel form deck per Construction #8 is secured to structural supports as described in Constructions #4d or #8. Celcore Cellular Concrete, min 42 lb/ft<sup>3</sup> (673 kg/m<sup>3</sup>) wet cast density, is then placed as described in Construction #1. Base sheet, insulation and roof cover are applied as described in Construction #4d. Meets Class 1-90.

**Construction #9:** Structural Concrete Deck, New Construction. Celcore Cellular Concrete, min 42 pcf (673 kg/m<sup>3</sup>), is placed as described in Construction #2 or #3 for new construction. A roof cover is applied per Construction #8. Meets Class 1-150.

**Construction #10:** Structural Concrete Deck, Recover Construction. Celcore Cellular Concrete, min 42 pcf (673 kg/m<sup>3</sup>), is placed as described in Construction #2 or #3 for recover construction. A roof cover is applied per Construction #8. Meets the wind uplift rating of the existing roof, max Class 1-150.

**Construction #11:** Steel Form Deck Construction — Marlyn Steel Deck, 26 ga. [0.018 in. (0.45 mm)] Type HF galvanized steel form deck is secured to supports spaced at 5 ft (1.5 m) o.c. using minimum 0.5 in. (13 mm) diameter puddle welds and washers placed at every other corrugation [7.5 in. (191 mm) o.c.]. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. A slurry coat of Celcore MF Cellular Concrete is cast to a minimum depth of ⅛ in. (3 mm) over the top of the corrugations with a minimum wet cast density of 36 lb/ft<sup>3</sup> (575 kg/m<sup>3</sup>). Apache, Carpenter or Cellofoam Holey Board Polystyrene Insulation, minimum 1 in. (25 mm) thick, is placed into the wet concrete. The following day, minimum 2 in. (50 mm) thick Celcore MF Cellular Concrete is placed with a minimum wet cast density of 360 lb/ft<sup>3</sup> (575 kg/m<sup>3</sup>). The following day, Celcore PVA Curing Compound is spray applied at a rate of 0.33 gal/sq (0.13 L/m<sup>2</sup>). After several days, a roof covering is applied as outlined below.

**Construction #11a:** Sarnafil G410 Felt Back roof cover is adhered to the deck with Sarnacol 2121 adhesive is applied to the deck with notched squeegee at a rate of 2 gal/sq (0.8 L/m<sup>2</sup>) or it is adhered with Sarnacol 2170 adhesive roller applied to the deck as a primer at a rate of 1 gal/sq (0.4 L/m<sup>2</sup>) and allowed to dry followed by additional Sarnacol 2170 Adhesive roller applied at a rate of 1.25 gal/sq (0.5 L/m<sup>2</sup>). The roof cover is placed into the wet adhesive and the top surface rolled. Meets Class 1-90.

**Construction #11b:** Maximum 39.4 in. (1000 mm) wide GAFGLAS #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or Stratavent Eliminator Venting Base Sheet (Nailable) or DynaBase, Dynalastic 180S, Glas Ply Premier, Glasbase Plus, Ventsulation Base Sheet or Tremco BURmastic Composite Ply Base Sheet or Danosa Glasdan R-36, Esterdan R-36-4 or Garland HPR Tribase or Hickman Performance Ply, Multi Ply Glas or Soprema Glass Base, Sopra VI or Tamko Versa-Base, Glass-Base, Vapor-Chan, Base-N-Ply secured to the deck with 1.75 in. (45 mm) long Olympic CR Assembled Base Sheet Fastener spaced maximum 9 in. (230 mm) o.c. through the 3 in. (75 mm) wide laps and at maximum 9 in. (230 mm) o.c. in two rows evenly spaced between the laps. The base sheet is covered with a minimum 3 ply asphaltic BUR or a minimum 1 ply modified bitumen roof cover adhered with hot asphalt. Meets Class 1-90.

**Construction #11c:** A base sheet per Construction #12b. above is secured to the deck with 1.75 in. (45 mm) long Olympic CR Assembled Base Sheet Fasteners spaced maximum 7 in. (180 mm) o.c. through the 3 in. (75 mm) wide laps and at maximum 14 in. (355 mm) o.c. staggered in two rows evenly spaced between the laps. The base sheet is covered with a minimum 3 ply asphaltic BUR or a minimum 1 ply modified bitumen roof cover adhered with hot asphalt. Meets Class 1-90.

**Construction #11d:** Soprema Soprafix (F) Base Sheet, maximum 39.4 in. (1000 mm) wide is secured to the deck with Tri-Fix Fastening System. Tri-Fix fasteners are spaced maximum 9 in. (355 mm) o.c. within the 5 in. (125 mm) wide laps which are spaced at maximum 34 in. (865) o.c. and further sealed with a hot torch. The base sheet is covered with a minimum 1 ply hot asphalt adhered or torch adhered modified bitumen roof cover. Meets Class 1-90.

**Construction #11e:** GAFGLAS Stratavent Eliminator Venting Base Sheet (Perforated), 39.4 in. (1000 mm) wide, is loose laid with a 2 in. (50 mm) wide lap. Over the base sheet, a minimum 1 ply modified bitumen roof cover is adhered with hot asphalt applied at 25 lb/sq (1.2 kg/m<sup>2</sup>). Meets Class 1-75.

**Construction #12:** Steel Form Deck Construction — Marlyn Steel Deck, Type B, nominal 22 ga. [0.0295 in. (0.75 mm)] thick galvanized steel form deck is secured to supports spaced at maximum 6 ft (1.8 m) o.c. using minimum 0.5 in. (13 mm) diameter puddle welds placed at every corrugation [6 in. (150 mm) o.c.]. The deck side laps are fastened using ITW Buildex Traxx/1 screws placed at midspan. Celcore MF is placed per Construction #12 above. After several days, a roof covering is applied as outlined below. Celcore MF roof deck meets Class 1-90.

**Construction #12a:** Sarnafil G410 Felt Back applied per Construction #12a. Meets Class 1-90.

**Construction #12b:** Base sheet and roof cover applied per Construction #11b., Construction #11c. or Construction #11d. Meets Class 1-90.

**Construction #13:** Base sheet and roof cover applied per Construction #11e. Meets wind uplift rating of existing roof, maximum Class 1-75 for recover. New Construction Meets Class 1-75.

**Construction #14:** Structural Concrete Deck, New or Recover Construction. New structural concrete deck, or optional primed structural concrete deck with hot asphalt applied vapor retarder, or existing structural concrete deck with asphaltic built up roof cover. Celcore MF is placed per Construction #12 above with minimum slurry depth of 1/8 in. (3 mm) over the substrate. After several days, a roof covering is applied as outlined below. Celcore MF roof deck meets Class 1-525.

**Construction #14a:** Sarnafil G410 Felt Back applied per Construction #11a. Meets wind uplift rating of existing roof, maximum Class 1-525 for recover. New Construction Meets Class 1-525.

**Construction #14b:** Base sheet and roof cover applied per Construction #11b., Construction #11c. or Construction #11d. Meets wind uplift rating of existing roof, maximum Class 1-90 for recover. New Construction Meets Class 1-90.

**Construction #14c:** Base sheet and roof cover applied per Construction #11e. Meets wind uplift rating of existing roof, maximum Class 1-75 for recover. New Construction Meets Class 1-75.

**Construction #15:** Structural Concrete Deck, New or Recover Construction. Minimum 2 in. (50 mm) thick Celcore MF Cellular Concrete, min 36 lb/ft<sup>3</sup> (575 kg/m<sup>3</sup>) wet cast density, is placed on the substrates described in Construction #14 above followed by Celcore PVA Curing Compound applied as in Construction #11 above. Celcore MF roof deck meets Class 1-525.

**Construction #15a:** Sarnafil G410 Felt Back applied per Construction #11a. Meets wind uplift rating of existing roof, maximum Class 1-525 for recover. Meets Class 1-525 new construction.

**Construction #15b:** Base sheet and roof cover applied per Construction #11b., Construction #11c. or Construction #11d. Meets wind uplift rating of existing roof, maximum Class 1-90 for recover. New Construction Meets Class 1-90.

**Construction #15c:** Base sheet and roof cover applied per Construction #11e. Meets wind uplift rating of existing roof, maximum Class 1-75 for recover. New Construction Meets Class 1-75.

[End of Celcore FM Listings](#)