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**Ecology Roof Systems Corp 505 N Tustin Ave Suite 188 Santa Ana CA 92705**

Roof Cover:	ERS 502, ERS 504, ERS 504-C, ERS 603
Deck:	Concrete, Steel, Wood
Laps:	4 in. (102 mm) wide side laps and 6 in. (152 mm) wide end laps
Application:	ERS 603 is torch adhered, all others asphalt adhered
Base Sheet:	ERS 500 and ERS 500-4
Hail Rating:	Class 1-SH
ASTM E 108:	Class A noncombustible deck at 1 in 12 in slope Class C combustible deck at 1 1/2 in 12 slope

**Construction #1:** Steel, Concrete, Wood. Min 1.5 in. (38 mm) thick Millox P, Hy-Tec, Hy-Therm AP Roof Insulation, Hy-Therm(a) AP Roofinsulation, Composite. F.M., Multi-Max (d), Multi-Max FA (d), Iso-Lite R (d) or min 1.4 in. thick Iso 95+ GL, HCS 2000 is secured to the deck with fasteners applied at 2 ft<sup>2</sup> (0.19 m<sup>2</sup>) max contributory area per fastener. The base sheet is then adhered with a spot mopping of asphalt at 20 lb/sq (1 kg/m<sup>2</sup>), applied in 16 in. (406 mm) dia. spots, 18 in. (457 mm) o.c. The base sheets are constructed with 2 in. (51 mm) wide side laps and 3 in. (76 mm) wide end laps. Cap sheet installed as described above. Meets Class 1-90. Fasteners Steel Deck: 1) Dekfast Stainless Steel with 3 in. Round plate; #12, #14 Dekfast or Omega with Lock or Hex Plate; **Dekfast #15HS** with Lock Plate; **Dekfast #12 Hex** with #12 Hex Plate. 2) AccuTrac or Hextra with Recessed, AccuTrac or Gearlok Plate; #12, 1/4 in., #14-10 or #15 Roofgrip with Recessed, Flat Bottom, Gearlok Plate. Fasteners Concrete Deck: #14 Dekfast with Hex Plate.

**Construction #2:** Structural Concrete. Hy-Tec or Armor-R Glass (Std., or Wide Flute), Standard and Wide Flute Fiberglass Roof Insulation, Standard and Wide Flute Fiber Glass Roof Insulation, Fiber Glass Roof Insulation (Standard and Wide Flute) insulation is fully adhered to a primed (Black jack concrete primer) concrete deck using a full mop of hot asphalt. Roof cover installed as in Construction #1. Meets Class 1-90.

Roof Cover:	ERS 505
Deck:	Concrete, Steel
Laps:	4 in. (102 mm) wide side laps and 6 in. (152 mm) wide end laps
Application:	Asphalt adhered
Base Sheet:	ERS 500-6
Hail Rating:	Class 1-SH
ASTM E 108:	Class A noncombustible deck at 1 in 12 in slope

**Construction #1:** Concrete, Steel. Min 0.75 in. (19 mm) thick ConPerl, Celotherm, GAFTEMP Permalite, Permalite or Fesco Board insulation is fastened to the deck at 1.3 ft<sup>2</sup> (0.12 m<sup>2</sup>) max contributory area per fastener. The base sheet is then adhered with a spot mopping of asphalt at 20 lb/sq (1 kg/m<sup>2</sup>), applied in 16 in. (406 mm) dia. spots, 18 in. (457 mm) o.c. The base sheets are constructed with 2 in. (51 mm) wide side laps and 3 in. (76 mm) wide end laps. Cap sheet installed as described above. Meets Class 1-90. Fastener steel deck: 1) Dekfast Stainless Steel with 3 in. Round plate; #12, #14 Dekfast or Omega with Hex Plate; **Dekfast #12 Hex** with #12 Hex Plate. 2) AccuTrac or Hextra with Recessed or AccuTrac Plate; #12, 1/4 in., #14-10 or #15 Roofgrip with Recessed or Flat Bottom Plate. Fasteners Concrete Deck: #14 Dekfast with Hex Plate.

Roof Cover:	ERS 8000 Fleece Backed
Decks:	Concrete, Recover Steel, Wood
Laps:	2 in. (51 mm) wide side laps sealed with THF (Tetrahydrofuron) or hot air welding.
Application:	Fully adhered with hot asphalt at 20 to 25 lb/sq (9 to 11 kg/9.3 m <sup>2</sup> ) or with ERS 8001 Water Based or ERS 8002 Solvent Based Adhesives at 2 gal/1.20 sq (7.5 L/11 m <sup>2</sup> )
Hail Rating:	Class 1-SH
ASTM E 108:	Class A noncombustible deck at 1/2 in 12 slope

**Construction #1:** Steel, Wood. 1.4 in. (36 mm) thick **Pyrox**, ENRGY 2, **ENRGY 3**, PSI-25, HCS 2000 or min 1.5 in. (38 mm) thick Hy-Tec, Hy Therm AP or min 1.3 in. (33 mm) Pyrox, or UltraGard is secured to the deck with fasteners applied at 2 ft<sup>2</sup> (0.19 m<sup>2</sup>) max contributory area per fastener. Roof Cover then adhered. Meets Class 1-90. Fasteners 1) Dekfast Stainless Steel with 3 in. round plate; #12, #14 Dekfast or Omega with Lock or Hex plate, Dekfast Autoset Plate; **Dekfast #12 Hex** with #12 Hex Plate. 2) AccuTrac or Hextra with recessed, AccuTrac or Gearlok Plate; #12, 1/4 in., #14-10 or #15 Roofgrip with Recessed, Flat Bottom, Gearlok Plate. 3) SDIF with SDIF Plastic. 4) #12 or **#14 Dekfast, Dekfast #15 HS with Dekfast 3" Round Plate**; System ES-1 #12 or #14. 5) Olympic Heavy Duty with Standard G-2, Olympic or LGP plate. 6) Rawl Spike with Rawl 3 in. Insulation plate. 7) Insul-Tite HWH with #12 Hex; #12, #14 or #15 Insul-Tite with Lock or Hex Plate.

**Construction #1a:** Steel, Wood. 1.5 in. (38 mm) Multi-Max is secured to the deck with fasteners shown in Construction #1 applied at 1.5 ft<sup>2</sup> (0.14 m<sup>2</sup>) max contributory area per fastener. Roof Cover then adhered. Meets Class 1-60. **Construction #2:** Concrete. Deck is primed with asphalt cutback primer at 3/4 gal/sq (2.8 L/9.3 m<sup>2</sup>). Insulation shown in Construction #1 is adhered with hot asphalt followed by roof cover. Meets 1-90.

**Construction #3:** Steel and Wood recover. 0.5 in. (13 mm) thick Armor Board, BP High Strength, ERS Redi Deck, GAFTEMP High Density, Roof Insulation Board, Knight-Celotex High Density Fiberboard Roof Insulation, Fiber Base HD1/HD6 or Structodek is adhered with hot asphalt. ERS 8000 Fleece Backed roof cover is then adhered with hot asphalt per Construction #1. Meets Class 1-60/1-90 per existing roof.

**Construction #4:** Structural Concrete Deck, New 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 or hot asphalt applied vapor retarder, 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. (51 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, the deck 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, the 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. (38 mm) wide heat weld or with Tetrohydrofuron. Meets Class 1-270.

**Construction #5:** Structural Concrete Deck, New Construction. New Structural concrete deck is covered with hot asphalt applied vapor retarder (optional). 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 #4 above followed by Celcore PVA Curing Compound is applied as described in Construction #4 above. After curing several days, the deck 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, the roof cover is adhered with ERS 8001 Water Based Adhesive. The roof cover is then rolled with a weighted roller and the seams sealed with a min 2 in. (38 mm) wide heat weld or with Tetrohydrofuron. Meets Class 1-210.

**Construction #6:** Structural Concrete Deck, Recover Construction. 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 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 following day, min 2 in. (51 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, the deck 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, the 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. (38 mm) wide heat weld or with Tetrohydrofuron. Meets wind uplift rating of the existing roof, max Class 1-270.

**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 Construction #6 above followed by Celcore PVA Curing Compound is applied as described in Construction #6 above. After curing several days, the deck 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, the roof cover is adhered with ERS 8001 Water Based Adhesive. The roof cover is then rolled with a weighted roller and the seams sealed with a min 2 in. (38 mm) wide heat weld or with Tetrohydrofuron. Meets wind uplift rating of the existing roof, max Class 1-210.

Roof Cover:	ERS 8000 M/A
Substrate:	Concrete, Recover Steel, Wood
Laps:	2 in. side laps & 4 in. end laps
Application:	Fully Adhered
Adhesive:	ERS 8002 Solvent

**Construction #1:** Steel. 0.5 in. (13 mm) thick Dens Deck is secured to the deck with #12 or #14 IF-3-S applied at 2 ft<sup>2</sup> (0.19 m<sup>2</sup>) max contributory area per fastener. Roof Cover then adhered. Meets Class 1-90.