

WARNOCK-HERSEY FIRE RATINGS ON ROOF COVERING SYSTEMS

ECOLOGY ROOF SYSTEMS CORP. - Santa Ana, CA USA

CLASS 'A'

Comb. Deck

Slope: 1:12 (AC-1)

1. Optional - Glass fiber taped joints.
2. Optional - Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
3. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6", mechanically fastened or fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive.
4. *2-, 3-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive each ply.
5. Coated with ASTM-D1227 asphalt emulsion with clay or aluminum pigment reflective additive applied at a minimum coverage rate of 3 gal./sq.

Comb. Deck

Slope: 1:12 (AC-2)

1. Optional - Glass fiber taped joints.
2. Optional - Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
3. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6", mechanically fastened or fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive.
4. *2-, 3-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped, or ASTM-D3019 cold process adhesive each ply.
5. "ERS-507" cap sheet, fully adhered with ASTM-D312 roofing asphalt, hot mopped or ASTM-D3019 cold process adhesive, each ply.
6. Optional Surfacing - 3M Brand No. 11 roofing granules applied at a minimum coverage rate of 50 lbs./sq. OR Roofing gravel ballast at a minimum coverage rate of 400 lbs./sq.

Comb. Deck

Slope: 1/2:12 (AC-3)

1. Optional - Glass fiber taped joints.
2. Optional Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite board, EPS/perlite composite board.
3. *Optional - 1-Ply "ERS-501" fully adhered with ASTM-D312 adhesive or "ERS-602", "ERS-600" torch welded.
4. *1-, 2-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped, or ASTM-D3019 cold process adhesive each ply.
5. "ERS-505", "ERS-504" cap sheet, fully adhered with ASTM-D312 roofing asphalt, hot mopped or ASTM-D3019 cold process adhesive, each ply.

Comb. Deck**Slope: 1/2:12 (AC-4)**

1. Optional - Glass fiber taped joints.
2. Optional - Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
3. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6", mechanically fastened or fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive.
4. *1-, 2-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped, or ASTM-D3019 cold process adhesive each ply.
5. *"ERS-507", fully adhered with ASTM-D312 roofing asphalt, hot mopped or ASTM-D3019 cold process adhesive, each ply.

Comb. Deck**Slope: Unlimited (AC-5)**

1. Optional - Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
2. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6", mechanically fastened or fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive.
3. *Optional - 1-Ply "ERS-501", "ERS-602", "ERS-600", fully adhered with ASTM-D312 asphalt.
4. *1-Ply "ERS-703" cap sheet, fully adhered with ASTM-D312 roofing asphalt, hot mopped or torch welded.

Comb. Deck**Slope: 1/2:12 (AC-6)**

1. Optional Insulation - Wood fiber, glass fiber, phenolic, perlite, polyisocyanurate insulation.
2. 1-Ply ASTM-D4601 Type II base sheet mechanically fastened. Optional if insulation's are used.
3. 2-Plies ASTM-D2178 Type IV ply sheets, fully adhered with ASTM-D312 roofing asphalt, hot mopped.
4. "ERS-510", fully adhered with ASTM-D312 roofing asphalt, hot mopped.

Comb. Deck**Slope: 1/2:12 (AC-7)**

1. Optional - Glass fiber taped joints.
2. Optional Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
3. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6" fully adhered with ASTM-D312 asphalt or ASTM-D3019 cold process adhesive.
4. *1-, 2-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped, or ASTM-D3019 cold process adhesive each ply.
5. Coated with ASTM-D1227 asphalt emulsion with clay or aluminum pigment reflective additive applied at a minimum coverage rate of 3 gal./sq.

Comb. Deck**Slope: 1/2:12 (AC-8)**

1. 15/32" Plywood Deck. All open joints are covered by 50 mil. Glass fiber tape or 4" wide self-adhesive aluminium foil tape or one (1) Type II glass fiber base sheet (ASTM-D4601). If insulation (line 2), is used, tape is not required.
2. Optional - Insulation - Perlite, glass fiber, perlite/EPS composite, polyisocyanurate, perlite/urethane composites, wood fiber, any thickness.
3. 1-Ply Type II base sheet (ASTM-D4601), mechanically fastened.
4. Two or more layers of "ERS-310 Polyester" embedded in 3-1/2 gal./sq. of "ERS-200" or Type III emulsion asphalt (ASTM-D1227).
5. *"ERS-200" or Type III emulsion asphalt (ASTM-D1227), applied at a coverage rate of 3 gal./sq.
6. Surface with listed "ERS-White Top" applied at a coverage rate of 2 gal./sq.
7. Optional - "3M No. 11 Granules" at a minimum of 50 lbs./sq.

Comb. Deck**Slope: 1/2:12 (AC-9)**

1. Existing Roof System - Class A, B, C, B.U.R. or modified bitumen systems with mineral or smooth surface.
2. Optional - Insulation - Perlite, glass fiber, perlite/EPS composite, polyisocyanurate, perlite/urethane composites, wood fiber, any thickness.
3. *One or more layers of "ERS-310 Polyester" embedded in 3-1/2 gal./sq. of "ERS-200" or Type III emulsion asphalt (ASTM-D1227).
4. *"ERS-200" or Type III emulsion asphalt (ASTM-D1227), applied at a coverage rate of 3 gal./sq.
5. Surface with listed "ERS-White Top" applied at a coverage rate of 2 gal./sq.
6. Optional - "3M No. 11 Granules" at a minimum of 50 lbs./sq.

Comb. Deck**Slope: 1/2:12 (AC-10)**

1. Existing Roof System - Class A, B, C, B.U.R. or modified bitumen systems with mineral or smooth surface (the gravel should be removed). One ply Type II glass fiber base sheet (ASTM-D4601), & two plies of ply sheet (ASTM-D2178), must be included in the existing roof. One ply of ply sheet can be replaced by mineral granule surface cap sheet (ASTM-D3908).
2. Optional - Insulation - Perlite, glass fiber, perlite/EPS composite, polyisocyanurate, perlite/urethane composites, wood fiber, any thickness.
3. Optional - 1-Ply Type II glass fiber sheet (ASTM-D4601).
4. *One or more layers of "ERS-310 Polyester" embedded in 3-1/2 gal./sq. of "ERS-200" or Type III emulsion asphalt (ASTM-D1227).
5. *"ERS-200" or Type III emulsion asphalt (ASTM-D1227), applied at a coverage rate of 3 gal./sq.
6. Surface with listed "ERS-White Top" applied at a coverage rate of 2 gal./sq.
7. Optional - "3M No. 11 Granules" at a minimum of 50 lbs./sq.

Non-Comb. Deck**Slope: 1/2:12 (AN-1)**

1. Optional - 1-Ply Type II glass fiber sheet (ASTM-D4601).
2. Optional - Insulation - Perlite, glass fiber, perlite/EPS composite, polyisocyanurate, perlite/urethane composites, wood fiber, any thickness.
3. *One or more layers of "ERS-310 Polyester" embedded in 3-1/2 gal./sq. of "ERS-200" or Type III emulsion asphalt (ASTM-D1227).
4. *"ERS-200" or Type III emulsion asphalt (ASTM-D1227), applied at a coverage rate of 3 gal./sq.
5. Surface with listed "ERS-White Top" applied at a coverage rate of 2 gal./sq.
6. Optional - "3M No. 11 Granules" at a minimum of 50 lbs./sq.

CLASS 'B'**Comb. Deck****Slope: 1-1/2:12 (BC-1)**

1. Optional - Glass fiber taped joints.
2. Optional - Insulation - Minimum 1/2" thick, glass fiber, wood fiber, phenolic, perlite, polyisocyanurate, polyisocyanurate composite, EPS/perlite composite.
3. *1-Ply "ERS-500", "ERS-500-4", "ERS-500-6", mechanically fastened or fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive.
4. *1-, 2-Plies "ERS-500", "ERS-500-4", "ERS-500-6", fully adhered with ASTM-D312 asphalt, hot mopped or ASTM-D3019 cold process adhesive each ply.
5. "ERS-507" cap sheet, fully adhered with ASTM-D312 roofing asphalt, hot mopped or ASTM-D3019 adhesive.
6. Roofing gravel or crushed stone at a minimum coverage rate of 300 lbs./sq. is used as a surface over a flood coat of hot roofing asphalt.