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ES Products Inc 280 Franklin St Bristol RI 02809

LISTINGS FOR TWIN LOC-NAILS IN POURED GYPSUM ROOFDECKS

Roof Covers: Min 3-ply Approved organic or glass fiber felt built-up roof cover or Approved modified bitumen roof cover Approved for use with the base sheet or insulation.

Deck: Gypsum (reroof only). Sound existing poured gypsum roof decks constructed with gypsum products Approved at the time of roof deck construction.

Coating: See roof cover listing

Laps: See roof cover listing for roof cover laps, below for base sheet side laps

Application: Secured to mechanically fastened base sheet or insulation or insulation secured with hot asphalt to mechanically fastened base sheet per roof cover listing

Base Sheets: Black Armor Glass Fiber Base Sheet, Black Armor Vented Glass Fiber Base Sheet, Black Armor Glass Fiber Felt, Black Armor Premium Glass Fiber Felt, Millennium Base Sheet, Prebase Base Sheet, Firestone MB Base, Firestone SBS Base Sheet, Firestone SBS Premium Base Sheet, Firestone APP 160, Firestone SBS Smooth, GAFGLAS #75, Stratavent Eliminator Venting Base Sheet (Nailable), GAFGLAS Ply 4, GAFGLAS Ply 6, GAFGLAS Mineral Surface Cap Sheet (granules down), All Weather/Empire, GS Flex-I-Glas Base, GS Flex-I-Glas FR, GS Poly SMS, Garland HPR Glasbase, Garland HPR Premium Glasbase, Garland Tribase, DynaBase, GlasBase, Glasply Premier, Glasply IV, Johns Manville APP Base Sheet, Nordflex Duo Ply FR Base, Nord G-2 Base, Perma Ply No. 28, Perma Ply-R, Ventsulation, Glass Fiber Base Sheet, Organic Base Sheet, #502 Premium Fiberglass Mineral Cap Sheet (granules down), #515 Fiberglass Standard Base Sheet, #501 Premium 1 Fiberglass SBS Base Sheet, #605 Panoply SBS Base Sheet, Derbibase, Glass Ply IV, Glass Base, Irex 30, Irex HT, Parabase, Parabase Plus, Sopra-G, Sopraglass 100, Glass-Base, Vapor-Chan, Versa Base, BURmastic Glass Ply-28#, BURmastic Glass Ply, BURmastic Composite Ply, Eagle Base Ultra, Ultra Cap (granules down), Intec Modified Base Plus, Intec Modified Base 190P, Flex Base 30, Flex Base 60, Permavent, Ultra Base, Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Weather Ply Base and PIKA Ply SS-2.

Hail Rating: See roof cover listing

ASTM E 108: See roof cover listing

Construction #1: Base sheet secured to an existing Approved poured gypsum deck as follows:

Construction #1e: TWIN LOC-NAILS installed max 9 in. (230 mm) o.c. along center of min 2 in. (51 mm) wide base sheet side laps and max 18 in. (455) o.c. staggered in two rows equally spaced between base sheet side laps. Roof cover, Approved for use with base sheet, installed per the roof cover listing. Meets Class 1-90.

Construction #2: Base sheet secured to deck per Construction #1e above. Min 1/2 in. (13 mm) thick Armor Board High Density Fiberboard, ESGARD HIGH-STRENGTH 1/2" 6-side Asphalt Coated High-Density Roof Board, ESGARD HIGH-STRENGTH 1/2" 1-side Asphalt Coated High-Density Roof Board, ESGARD 1/2", GAFTEMP High Density Fiberboard, High Density Roof Fiberboard, Fiber Base HD1, Fiber Base HD6, Structodek, GAFTEMP Permalite Recover Board, Permalite Recover Board, or Retro-Fit Board, min 3/4 in. (19 mm) thick Celotherm, ConPerl, Permalite, GAFTEMP Permalite, GAFTEMP Perlite or Fesco Board min 1 in. (25 mm) thick Armor Board Regular Fiberboard, ESGARD 1", ESGARD HIGH-STRENGTH 1" High-Density Roof Board, GAFTEMP Fiberboard, Huebert Fiberboard or Kop-R Wood Fiber, min 1.5 in. (38 mm) thick Armor R Plus, Armor R Plus Tapered, Millox-P, Millox, Nail-Line, Pyrox, White Line, ACFoam-II, ACFoam-II Tapered, ACFoam Composite, Hy-Therm AP Roof Insulation, Hy-Therm(a) AP Roof Insulation, Hy-Therm COMPOSITE, Hy-Therm(a) COMPOSITE Roof Insulation, Hy-Therm TAPERED, Hy-Therm TAPERED Roof Insulation, Hy-Tec RB, Polycon-Posite, Iso 95+ GL, Iso 95+ Composite, Iso 95+ Composite Plus, GAFTEMP Composite, GAFTEMP Isotherm RA, GAFTEMP Tapered Isotherm RA, Kop-R, Kop-R Composite, Kop-R (WC), Kop-R (WII), Kop-R (WII) Tapered, Pyrox, ENRGY 3, ValuTherm, ENRGY 3 Plus, PSI-25, Tapered PSI-25, HCS 2000, Foamglas Board, Thermal Tec, Thermal Tec Tapered, Thermarroof Composite, Multi-Max, Fesco Foam, DuraBoard, UltraGard,

UltraGard Tapered, Trisotech G2, Trisotech GF, Trisotech Pyrox, USIso, USIso Tapered, USIso/Perlite Composite or min 2 in. (51 mm) thick Arcor FM secured to the base sheet with hot asphalt at 25 lb/sq (1.2 kg/sq.mtr.). Roof cover, Approved for use with the insulation, installed per the roof cover listing. Meets Class 1-60/1-90 per base sheet securement.

Construction #3: Min _ in. (6.5 mm) Dens Deck, min _ in. (13 mm) thick High Density Fiberboard, Duraboard, Armor Board High Density Fiberboard, BP High Strength Fiberboard GAFTEMP High Density GAFTEMP Permalite Recover Board, Permalite Recover board or Retro-Fit Board or min _ in. (19 mm) thick Fesco Board or Fiberglass Roof Insulation or min 1.4 in. (36 mm) thick ACFoam-III or min 1.5 in > (40 mm) thick HyTherm AP secured to roof deck through an existing Class 1 roof assembly, if present, with one TWIN LOC-NAIL [min 1 in. (25 mm) embedment in deck] per 2 ft² (0.19 m²) max contributory area per fastener in a diamond in a box pattern. Min 3-ply built-up or modified bitumen roof cover Approved for use with the roof insulation secured to the roof insulation with hot asphalt or torch application as required in the roof cover manufacturers listing. Meets Class 1-90.

Construction #4: Min _ in. (6.5 mm) Dens Deck, min _ in. (13 mm) thick High Density Fiberboard, Duraboard, Armor Board High Density Fiberboard, BP High Strength Fiberboard GAFTEMP High Density Fiberboard, High Density Roof Fiberboard, Dens Deck Fiber Base HD1, Fiber base HD6, or Structodeck or min _ in. (19 mm) thick Fesco Board or min 1.4 in. (36 mm) thick ACFoam-III or min 1.5 in. (40 mm) thick HYTherm AP secured to roof deck through an existing Class 1 roof assembly, if present, with TWIN LOC-NAILS [min 1 in. (25 mm) embedment in deck]. Single ply roof cover Approved for use with the roof cover fully adhered to the roof insulation with solvent based bonding adhesive as required in the roof cover manufacturing listing. Meets Class 1-75 with one TWIN LOC-NAIL per 1.78 sq. ft. (0.165 m²) max contributory area per fastener. Meets Class 1-90 with one TWIN LOC-NAIL per 1.33 sq. ft. (0.124 m²) max contributory area per fastener.