

**CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following roofing material has been found to be acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, A.I.A., Commissioner

MEA 389-03-M

Report of Material and Equipment Acceptance Division

Manufacturer – Carlisle SynTec Incorporated, P.O. Box 7000 Carlisle, PA 17013.

Trade Name – Sure-Weld HS

Product - Roof Covering Assemblies, Mechanically Fastened.

Pertinent Code Section - 27-337.

Prescribed Test - RS 5-10 (ASTM E-108).

Laboratory – Underwriters Laboratories Inc.

Test Reports - File R8103: 01NK19962, Current UL Directory Listing.

Description – Mechanically fastened roof covering assemblies, utilizing Carlisle Sure-Weld HS TPO Membrane, applied over various decks, or over insulation which is attached with fasteners & plates, hot roofing asphalt or cold adhesive. The membrane is positioned then mechanically fastened to the deck using fasteners and plates or bars. Field membrane splices are completed using hot air.

Assembly No. 1 - G-P Gypsum DensDeck or DensDeck Prime, 1/4 inch minimum, or gypsum wallboard, 1/2 inch minimum, by themselves or over any UL Classified insulation, any thickness.

Class A fire resistance classification, over combustible or non-combustible decks, at any incline.

Assembly No. 2 - Carlisle HP Recovery Board or UL Classified fiberboard, 1/2 inch minimum, or 7/16 inch OSB, by themselves or over any UL Classified insulation, any thickness.

Class A fire resistance classification, over non-combustible decks at inclines not exceeding 1 inch to one horizontal foot.

Assembly No. 3 - Referenced Insulation<sup>1</sup>, any combination, any thickness:

Class A fire resistance classification over non-combustible decks at inclines not exceeding 1-1/4 inches to one horizontal foot.

Assembly No. 4 - Two layers of Carlisle FR Base Sheet, Elk VersaShield Underlayment or VersaShield FB-2S placed over the combustible deck, covered with any UL Classified insulation (except EPS), any combination, any thickness.

Class A fire resistance classification at inclines not exceeding 2 inches to one horizontal foot.

Assembly No. 5 - One layer of Atlas FR-10 or FR-50, Carlisle FR Base Sheet or Elk VersaShield Underlayment or VersaShield FB-2S placed over the combustible deck, covered with Atlas ACFoam III, min 1.5 in. thick with joints staggered min 6 in. from the deck joints.

Class A fire resistance classification at inclines not exceeding 1-1/2 inches to one horizontal foot.

Assembly No. 6 - One layer of one of the following base sheets placed over the combustible deck:

- Owens Corning Perma Ply No. 28
- GAF Gafglas #75
- Johns Manville Glasbase
- Tamko Glass Base
- Celotex Type G2 Vaporbar GB
- Carlisle FR Base Sheet
- Elk VersaShield Underlayment or VersaShield FB-2S

Covered with Referenced Insulation<sup>1</sup>, 1-1/2 inch minimum; or covered with Carlisle HP Recovery Board or fiberboard, 1 inch minimum; or covered with Carlisle HP Recovery Board or fiberboard, 1/2 inch minimum or 7/16 inch OSB over polyisocyanurate or urethane, 1 inch minimum.

Class B fire resistance classification at inclines not exceeding 1/2 inch to one horizontal foot.

Assembly No. 7 - One layer of one of the following base sheets placed over the combustible deck:

- Owens Corning Perma Ply No. 28
- GAF Gafglas #75
- Johns Manville Glasbase
- Tamko Glass Base
- Celotex Type G2 Vaporbar GB
- Carlisle FR Base Sheet
- Elk VersaShield Underlayment or VersaShield FB-2S

Class B fire resistance classification at inclines not exceeding 1 inch to one horizontal foot.

- Note 1 -

Referenced Insulation includes Carlisle Polyiso HP, HP-H, HP-N and HP-W; Apache Pyrox and White Line; Atlas AC Foam II and III, Hunter H-Shield, Johns Manville ENRGY 2 and 3; R-Max Multi-Max, Rhoflex GL, GW and HF; and Versico MP, MP-H, MP-N and MP-W.

Recommendation - That the above roof covering assemblies, utilizing the Carlisle Sure-Weld HS Membrane and the Sure-Weld Mechanically Fastened System, when installed in accordance with the instructions for installation supplied by the manufacturer and at roof inclines specified, be accepted for the fire resistance classifications indicated on the condition that all uses, locations and installations comply with the NYC Building Code, the manufacturers instructions and the Fire Department Rules and Regulations. All shipments and deliveries of such materials shall be accompanied by a certificate or label certifying that the materials are equivalent to those tested and acceptable for use, as provided for in Article 27-131 of the Building Code.

Final Acceptance JAN/30/04

Examined By S Derkhdan