Manufacturer:

CARLISLE SYNTÉC

Authorized membrane production sites: Senatobia, MS and Tooele, UT - USA

**Roofing System Summary:** PVC Adhered System

- Membrane: Sure-Flex PVC or equivalent membrane
- Insulation: Polyiso HP-H or equivalent product
- Vapour barrier: CCW 725 TR or equivalent product
- Thermal barrier: Optional
- Decking: Steel deck 22 gauge or equivalent

- Dynamic Uplift Resistance (DUR) as per CSA A123.21 standard: -1.8 kPa (-37.5 psf)

**Notes:**

**Equivalent products:**
Only equivalent products included into the roofing system’s report are admissible.

**Optional components:**
Components of the roofing system designated as optional may be included or excluded from the roofing system which will not change the published dynamic uplift resistance (DUR).

**Safety factor:**
As required by in the CSA A123.21 standard, the published dynamic uplift resistance (DUR) are reduced by a safety factor of 1.5.

**Admissible wind uplift load calculation:**
An online calculator is available at [www.sigders.ca](http://www.sigders.ca). The user will have to provide the following information:
- building location;
- building geometry;
- building exposure;
- building openings;
- building importance factor.

The calculator will display the allowable design load of the roof’s field surface, edges and corners as well as the dimensions of the edge and corner zones.

**Technical Advisories:**
Assessment reports must be read in conjunction with technical advisories issued by Les Services exp inc.

**Values**
For this document, the metric values are the standard and values in parentheses are for information only.

**Notice**
Les Service exp inc. reserve their right to withdraw, without prior notice, the test report performed as per CSA A123.21 standard.
Roof System’s Specific Data:

Membrane:
- Membrane: Sure-Flex PVC, 1.3 mm (50 mil)
- Membrane description: White or colored PVC roofing membrane
- Equivalents: 1.5 or 2.1 mm (60 or 80 mil) Sure-Flex, 1.3, 1.5 or 2.1 mm (50, 60 or 80 mil) Sure-Flex PVC KEE or Sure-Flex PVC FRS
- Attachment method: Adhered with Carlisle PVC Bonding Adhesive or Low VOC PVC Bonding adhesive or Aqua-base 120 bonding adhesive or Hydrobond PVC Adhesive.

Insulation:
- Insulation type: Polyisocyanurate, Carlisle Polyiso HP-H
- Supplier: Carlisle SynTec
- Insulation description: Composed of polyisocyanurate plastic foam between two facers with a compressive strength of 138 kPa (20 psi) in accordance with the ASTM D 1621 standard.
- Attachment method: 1 fastener and plate per 0.372 m² (4 ft²)
- Admissible thickness: 50 mm (2 inches) minimum
- Equivalents: Carlisle SecurShield or SecurShield HD Composite; Hunter Panels H-Shield, H-Shield-CG or H-Shield HD Composite.
- Screw type: Carlisle fasteners or minimum No. 12 roofing fastener with an anticorrosion coating.
- Plate type: Carlisle insulation plates, 75 mm (3 in.) round or square plastic or metal roofing insulation plate or 73 mm (2 7/8 in.) hexagonal plastic or metal roofing insulation plate. Metal plates must have an anticorrosion coating.

Vapour Barrier:
- Vapour barrier: Carlisle CCW 725 TR
- Supplier: Carlisle SynTec
- Attachment method: Self-adhered or loosely laid and sealed at the laps in the case of the polyethylene
- Equivalents: Carlisle CCW 725, CCW 705 or minimum 0.15 mm (6mil) thick polyethylene

Thermal Barrier (optional):
- Type: Gypsum panel
- Supplier: Generic
- Description: Panel with gypsum core
- Thickness: 6 mm (1/4 in.) minimum
- Attachment method: Loosely laid, adhesively attached or mechanically attached
- Equivalents: DensDeck, DensDeck Prime, Securock

Decking:
- Supplier: Generic
- Decking type: Galvanized or aluminum/zinc alloy coated steel in accordance with ASTM A653, ASTM A792, ASTM A1008 or CSSBI 10M standards.
- Thickness: 0.76 mm (0.03 in.) minimum, with a yield strength of 230 MPa (33 ksi) and a tensile strength of 310 MPa (45 ksi) commonly defined as being of a 22 gauge minimum thickness.
- Equivalents: Any decking material with pull-out resistance equal to or greater than the referenced below.
- Attachment method: The deck’s fastening to the supporting structure must be strong enough to resist wind uplift loads (adjusted as per NBC requirements).
- Fastening uplift resistance (CSA S136.F04): 2.0 kN (450 pf)