**Manufacturer:**

**CARLISLE SYNTITEC**

**Authorized membrane production sites:** Mountain Top, PA; Greenville, IL; Hillside, NJ - USA

**Roofing System Summary:** PVC RhinoBond System

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Membrane</td>
<td>Sure-Flex PVC or equivalent membrane</td>
</tr>
<tr>
<td>- Insulation</td>
<td>Polyiso HP-H or equivalent product</td>
</tr>
<tr>
<td>- Vapour barrier</td>
<td>725 TR or equivalent product</td>
</tr>
<tr>
<td>- Thermal barrier</td>
<td>Optional</td>
</tr>
<tr>
<td>- Decking</td>
<td>Steel deck 22 gauge or equivalent</td>
</tr>
</tbody>
</table>

- Dynamic Uplift Resistance (DUR) as per CSA A123.21 standard: -3.4 kPa (-70 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.
Roofing 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

<table>
<thead>
<tr>
<th>Attachment method</th>
<th>Spacing</th>
<th>Dynamique Uplift Resistance (DUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. Row</td>
<td>Fasteners</td>
</tr>
<tr>
<td></td>
<td>610 mm</td>
<td>610 mm (24 in.)</td>
</tr>
</tbody>
</table>

Coverboard (optional):
- Type: Carlisle HP Recovery Board
- Supplier: Carlisle SynTec
- Description: Rigid overlament board
- Equivalents: DensDeck, DensDeck Prime, Securock, oriented strand board (OSB), plywood, gypsum, Carlisle SecurShield HD or HD Plus and Hunter Panels H-Shield HD or HD90
- Thickness: minimum 6 mm (1/4 inch)
- Attachment method: Fasteners and plates (see insulation section)

Note: When a coverboard is used, fasteners and plates normally used to attach the insulation are used to simultaneously attach the coverboard and insulation (see insulation section below).

Insulation:
- Insulation type: Polyiso HP-H (or approved equivalent)
- Supplier: Carlisle Syntec
- Insulation description: Polyisocyanurate foamed plastic 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)
- Equivalents: EPS composite Board, Carlisle SecurShield or Securshield HD Composite, Hunter Panels H-Shield, Hunter Panels H-Shield-CG, H-Shield HD Composite
- Fastener type: HP-X fasteners (no. 15)
- Plate type: Carlisle RhinoBond plates, 75 mm (3 in.) round.

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 polyethylene
- Equivalents: Carlisle CCW 725, CCW 705 or minimum 0.15 mm (6 mil) 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)