Mod-Bit Colvent Duotack adhered System, Adhesive Applied Roofing System (AARS)

Roofing System Summary:
- Cap sheet membrane: Modified Bituminous membrane or allowable products
- Base Sheet Membrane: Modified Bituminous membrane or allowable products
- Cover board: Optional
- Insulation: Polysiocyanurate
- Vapour barrier: Membrane or allowable products
- Thermal barrier: Asphalitic board or allowable products
- Decking: Steel Deck

- Dynamic Uplift Resistance (DUR) as per CSA A123.21:

<table>
<thead>
<tr>
<th>Description</th>
<th>Test observation reading</th>
<th>With SF of 1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>System A</td>
<td>-4.5 kPa (-94 psf)</td>
<td>-3.0 kPa (-63 psf)</td>
</tr>
</tbody>
</table>

Notes:
- Allow 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 (SF of 1.5)
- Admissible wind uplift load calculation: An online calculator is available at 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 exp Services Inc.

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

Notice
Exp Services Inc. reserve their right to withdraw, without prior notice, the test report performed as per CSA A123.21 Standard.
Roof System Assessment Report
of Wind Uplift Resistance (ISO 17025)

Roofing System’s Specific Data:

Cap Sheet Membrane:

- Allowable products: Soprema
  - Sopralene Flam 180 GR
  - Sopralene Flam 180 FR
  - Sopralene Mammouth GR
  - Sopraflash Flam Stick

- Attachment mode: Heat welded

Base sheet membrane:

- Allowable product: Soprema
  - Colvent 810
  - Sopraflash Flam Stick

- Attachment mode: Self-adhering membrane

Cover board:

- Allowable product: Soprema
  - Sopraflash Flam Stick

- Attachment type: Duotack

Adhered Attached Pattern
<table>
<thead>
<tr>
<th>Adhesion mode</th>
<th>Adhesive spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbons</td>
<td>305 mm (12 in.) o.c.</td>
</tr>
</tbody>
</table>

- Attachment supplier: Soprema
- Primer to apply on cover board: Elastocol Stick

Insulation:

- Allowable products:
  - Soprema
  - Sopra-Iso
  - Sopra-Iso +
  - Atlas Roofing Corp.
  - ACFoam II
  - ACFoam III
  - ACFoam IV
  - Johns Manville
  - ENRGY 3
  - ENRGY 3 CGF
  - Hunter Panels
  - H-Shield

- Allowable thickness: Between 25 mm (1 in.) to 203 mm (8 in.)

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- Attachment type: Duotack

Vapour Barrier:

- Allowable products: Soprema
  - SoproapR
  - Sopralene Stick Adhesive

- Attachment mode: Adhered (Primer on steel deck optional, primer required on wood deck and concrete deck with Elastocol stick or Elastocol Stick Zero)

- Attachment type: Self-adhering membrane

Vapour Barrier: See optional products table
Roof System Assessment Report  
of Wind Uplift Resistance (ISO 17025)  

<table>
<thead>
<tr>
<th>Document Number:</th>
<th>PUB-DRU209338</th>
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<tbody>
<tr>
<td>Publication Date:</td>
<td>2012-02-01</td>
</tr>
<tr>
<td>Revised:</td>
<td>2015-01-14</td>
</tr>
<tr>
<td>Revaluation Date:</td>
<td>2018-01-14</td>
</tr>
</tbody>
</table>

**Thermal Barrier (optional):**  
See optional products table

**Decking:**

- **Type:**  
  Galvanized construction steel or coated with an aluminum/zinc alloy or PVC in accordance with ASTM A653, ASTM A792, ASTM A1008 or CSSBI 10M Standards.

- **Supplier:**  
  Generic

- **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 gauges minimum thickness.

- **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):**  
  2.09 kN (470 pf)

- **Equivalence:**  
  Steel deck thickness of 18 to 22 gauges or wood deck or concrete deck with pullout resistance equal or higher than the Fastening uplift resistance specified above.

**Optional Products Table:**

**Vapour Barrier:**

- **Allowable products:**  
  Soprema  
  Elastophene PS 2.2 mm  
  Sopralene 180 PS 3.5 mm

- **Attachment mode:**  
  Heat welded (required a primer on allowable thermal barrier or concrete deck with Elastocol 500)

**Thermal barrier:**

| Allowable products | CGC / USG  
|--------------------| Securock Gypsum Fiber board  
|                    | Unifix  
|                    | PermaBase Dek  

- **Allowable thickness:**  
  Between 6.3 mm (¼ in.) to 15.9 mm (5/8 in.)

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<td>For System A result</td>
<td>Ribbons</td>
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</tr>
</tbody>
</table>

| Attachment type: | Duotack |
| Attachment supplier: | Soprema |

| Allowable thermal barrier and decks have to be primed(Optional for steel deck): | Elastocol Stick | Elastocol Stick Zero |