



Roof System Assessment Report of Wind Uplift Resistance (ISO 17025)

| | |
|-------------------|---------------|
| Document Number: | PUB-DRU303357 |
| Publication Date: | 2015-06-01 |
| Revised: | |
| Revaluation Date: | 2018-06-01 |

Supplier:



RubberGard™ EPDM adhered System, Adhesive Apply Roof System (AARS)

Roofing System Summary :

- Membrane: EPDM membrane or allowable products
- Cover board: Polyisocyanurate board or allowable products
- Insulation: Polyisocyanurate or allowable products
- Vapour barrier: Membrane or allowable products
- Thermal barrier: Optional
- Decking: Steel Deck
- Dynamic Uplift Resistance (DUR) as per CSA A123.21:

| Description | Test observation reading | With SF of 1.5 |
|-----------------|--------------------------|---------------------------|
| System A | -3.0 kPa (-62 psf) | -2.0 kPa (-41 psf) |

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.

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Roofing System's Specific Data:

Membrane:

| | | | |
|----------------------|----------------------------------|-------------------|--------------------|
| - Allowable product: | Firestone | | |
| | RubberGard™ EPDM | Platinum EPDM | EcoWhite membranes |
| | RubberGard™ MAX EPDM | EPDM PT membranes | |
| - Attachment mode: | Adhered | | |
| Adhesive Pattern | Row spacing | Adhesive spacing | |
| for System A result | Fully adhered | None | |
| - Adhesive type: | EPDM Bonding Adhesive BA-2400(T) | | |
| - Adhesive supplier: | Firestone | | |

Cover board:

| | | | |
|----------------------------|---|-----------------------------|--|
| - Allowable product: | Firestone | | |
| | ISOGard HD | HailGard | |
| | CGC / USG | | |
| | Securock Gypsum Fiber Roof Board | | |
| - Allowable thickness: | Between 6 mm (¼ in.) to 15.9 mm (5/8 in.) | | |
| Adhesive Pattern | Row spacing | Fasteners spacing | |
| for System A result | Ribbons | 305 mm (12 in.) o.c. | |
| - Adhesive type: | I.S.O. Twin Pack Adhesive | | |
| - Adhesive supplier: | Firestone | | |

Insulation second row:

| | | | |
|------------------------|---|----------------------|--|
| - Allowable products: | Firestone | | |
| | ISO 95+ | Resista | |
| - Allowable thickness: | Between 25 mm (1 in.) to 203 mm (8 in.) | | |
| Adhesive Pattern | Row spacing | Fasteners spacing | |
| for System A result | Ribbons | 305 mm (12 in.) o.c. | |
| - Adhesive type: | I.S.O. Twin Pack Adhesive | | |
| - Adhesive supplier: | Firestone | | |

Insulation first row:

| | | | |
|----------------------------|---|-----------------------------|--|
| - Allowable products: | Firestone | | |
| | ISO 95+ | Resista | |
| - Allowable thickness: | Between 25 mm (1 in.) to 203 mm (8 in.) | | |
| Adhesive Pattern | Row spacing | Fasteners spacing | |
| for System A result | Ribbons | 305 mm (12 in.) o.c. | |
| - Adhesive type: | I.S.O. Twin Pack Adhesive | | |
| - Adhesive supplier: | Firestone | | |

Vapour Barrier:

| | | | |
|-----------------------|------------------------------|-------------|--|
| - Allowable products: | Firestone | | |
| | V-Force | Basegard SA | |
| - Attachment mode: | Adhered or loose laid | | |
| - Attachment type: | Self-adhering membrane | | |

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



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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 gauge 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:

Thermal barrier:

| | | | |
|------------------------|---|----------------------|--|
| - Allowable product: | Georgia Pacific | | |
| | DensDeck | DensDeck Prime | |
| | CGC / USG | | |
| | Securock Gypsum Fiber Roof Board | | |
| - Allowable thickness: | Between 6 mm (¼ in.) to 15.9 mm (5/8 in.) | | |
| Adhesive Pattern | Row spacing | Fasteners spacing | |
| for System A result | Ribbons | 305 mm (12 in.) o.c. | |
| - Adhesive type: | I.S.O. Twin Pack Adhesive | | |
| - Adhesive supplier: | Firestone | | |