Elevate Mod-Bit and Built-Up

Tested Assembly Guide

Canadian Standards Association

July 2025

NOTE: The contents of this guide are considered accurate at the time of posting. All information contained within should be validated for accuracy as it relates to specific project conditions or requirements. Specific codes, uplifts or other factors may result in changes to the information contained within this document. Validate all specific conditions with a Elevate Regional Technical Coordinator prior to its use.

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Allowable 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 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 issues by Exp Services Inc.

Values

A For the listing in this section 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.

Decking

Galvanized construction steel or coated with aluminum/zinc allow or PVC in accordance with ASTM A653, ASTM A792, ASTM A1008 or CSSBI 10M Standards. Supplier is listed as Generic. The deck's fastening to the supporting structure must be strong enough to resist the wind uplift loads (adjusted as per NBC requirements). Contact a Elevate Technical Representative for additional deck availability. Alternate deck types will require the deck to have a pullout resistance equal to or higher than the fastening uplift resistance specified in the given listing.

- Deck used for testing: 22 gauge, Yield Strength (Y) 33 ksi, Tensile Strength (T) 45 ksi – Type B

SBS Modified Bitumen – 2 Ply Mod-Bit System

SBS MODIFIED BITUMEN MEMBRANE - DYNAMIC UPLIFT RESISTANCE (DUR) AS PER CSA A123.21					
Deck Type & Uplift With SF of 1.5	**Vapor Barrier, Thermal Barrier and Attachment**	**Insulation and Attachment**	**Cover Board and Attachment**	**Base Sheet and Attachment**	**Cap Sheet and Attachment**
Steel 18-22 ga Y: 33 ksi T: 45 ksi 2.1 kPa (-45 psf) File Number: FBPS-211230-03	**Vapor Barrier:** V-Force/ BaseGard SA ***Thermal Barrier (Optional)****:* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck* *DensDeck Prime* *Securock* ***Attachment****:* *Loose Laid* *Adhered* *Mechanically Attached*	**Insulation (Top):** 38 mm – 102 mm (1 ½" – 4") thick 2 Layers ISOGARD GL/ ISOGARD CG **Insulation (Bottom):** 38 mm – 102 mm (1 ½" – 4") thick 2 Layers I ISOGARD GL/ ISOGARD CG **Attachment**: Loose Laid	**Cover Board:** 13 mm (½") thick, ISOGARD HD; ISOGARD HD 38.1 mm (1.5"); Securock 6.35 mm (¼") thick **Attachment:** 10 HD fasteners per 4' x 8' board	**Base Sheet:** BASEGARD SA **Attachment**: Adhered	**Cap Sheet:** SBS 250 Torch SBS 250 FR Torch SBS Torch SBS FR Torch SBS Premium Torch SBS Premium FR Torch SBS Glass FR Torch **Attachment:** Heat welded
Steel 22 ga Y: 33 ksi 2.0 kPa (-42 psf) Project No.: FBP-415-02-01 Assembly No. 3	**Air Barrier:** 6 mil. Polyethylene	**Insulation**: 38.1 mm (1.5") thick ISOGARD GL/ ISOGARD CG **Attachment**: Loose Laid	**Cover Board:** 6.35 mm (¼") thick, DensDeck Prime **Attachment:** 10 HD fasteners per 4' x 8' board	**Optional Ply:** MB Cold Adhesive or Hot Asphalt : SBS 180 Base 1.5 SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, SBS Smooth Torched : SBS 180 Torch Base SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Poly Torch Base **Base Sheet:** MB Cold Adhesive or Hot Asphalt : SBS Base SBS Premium Base SBS Premium Poly Base SBS Smooth **Torched**: SBS 180 Torch Base SBS Glass Torch Base SBS Glass Torch Base 1.5 SBS Poly Torch Base **Self-Adhered:** BASEGARD SA	**Cap Sheet:** MB Cold Adhesive or Hot Asphalt SBS 250 SBS250 FR SBS Glass, SBS Glass FR, SBS Cap, SBS Premium, SBS FR Cap, SBS Premium FR **Torched:** SBS 250 Torch SBS 250 FR Torch SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS Premium FR Torch
Value Steel 22 ga Y: 33 ksi 3.0 kPa (-63 psf) Project No.: FBP-415-02-01 Assembly No. 4	**Vapor Barrier:** V-Force/ BaseGard SA	**Insulation**: 38.1 mm (1.5") thick, ISOGARD GL/ ISOGARD CG **Adhesive Attachment:** 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack; I.S.O. Stick; I.S.O. Spray R; Twin Jet Adhesive	**Cover Board:** 6.35 mm (¼") thick, DensDeck Prime **Attachment:** 305 mm (12") o.c. beads, 19.0 5mm (¾") beads, Twin Pack, I.S.O. Stick, Twin Jet -or- 152.4 mm (6") o.c. beads, I.S.O. Spray R	**Optional Ply:** SBS 180 Torch Base SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Poly Torch Base **Base Sheet:** SBS 180 Torch Base SBS Glass Torch Base SBS Glass Torch Base 1.5 SBS Poly Torch Base	**Cap Sheet:** SBS 250 Torch SBS 250 FR Torch SBS Glass FR Torch, SBS Torch, SBS Premium Torch, SBS Premium FR Torch