RubberGard™ EPDM Roof Systems

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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Canadian Standards Association

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) is 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

RubberGard EPDM Adhered Membrane

RUBBERGARD EPDM MEMBRANE - DYNAMIC UPLIFT RESISTANCE (DUR) AS PER CSA A123.21				
Deck Type & Uplift with SF of 1.5	**Vapor Barrier/ Thermal Barrier**	**Insulation and Attachment**	**Cover Board and Attachment**	**Membrane and Attachment**
Steel 18-22 ga Y: 33 ksi T: 45 ksi 2.1 kPa (-45 psf) File Number: FBPS-211230-02	Vapor Barrier: V-Force BaseGard SA Polyethylene Kraft paper *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck®* *DensDeck Prime* *Securock®* *Attachment:* *Loose Laid*	Insulation (Top): 38 mm – 203 mm (1.5" – 8") thick, 4′x8′ boards ISOGARD™ GL/ISOGARD CG Attachment (Top): Loose Laid Common Fastened Insulation (Bottom): 38 mm – 203 mm (1.5" – 8") thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment (Bottom): Loose Laid Common Fastened	Cover Board: 6 mm – 15.9 mm (¼" - ⅝") thick, ISOGARD HD ISOGARD HG Securock Attachment: 10 HD Fasteners per 4′x8′ board	Membrane: RubberGard™ EPDM Platinum EPDM EcoWhite™ membranes RubberGard MAX EPDM EPDM PT membranes Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T)
Steel 18-22 ga Y: 33 ksi T: 45 ksi 3.2 kPa (-67 psf) File Number: FBPS-211230-08	Vapor Barrier: V-Force™ BaseGard SA Polyethylene Kraft paper *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck* *DensDeck Prime* *Securock* *Attachment:* *Loose Laid*	Insulation (Top): 25 mm – 203 mm (1" – 8") thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment (Top): 12 HD Fasteners per 4′x8′ board Insulation (Bottom): 38 mm – 203 mm (1.5" – 8") thick, 4′x4′ boards ISOGARD GL/ISOGARD CG Attachment (Bottom): Loose Laid Common Fastened	Cover Board: 3 mm – 15.9 mm (⅛" - ⅝") thick, 4′x4′ boards ISOGARD HD ISOGARD HG Securock Attachment: 6" o.c. beads Twin Pack Adhesive	Membrane: RubberGard EPDM Platinum EPDM EcoWhite membranes RubberGard MAX EPDM EPDM PT membranes Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T)
Steel 18-22 ga Y: 33 ksi T: 45 ksi 3.19 kPa (66.7 psf) Project Number: FBP-393-02-01 Assembly No. 1	Vapor Barrier: V-Force Thermal Barrier: ½" thick DensDeck Prime Attachment: 16 HD Fasteners/Plates Per 4′x8′ board	Insulation: Min. 2" thick, 4′x4′ boards ISOGARD GL/ISOGARD CG Attachment: 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack ISO Stick ISO Spray R or 152.4 mm (6") o.c. beads, 25.4 mm (1") beads, Twin Jet	Cover Board: Min. 6 mm (¼") thick 4′x4′ boards DensDeck Prime Securock Attachment: 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack ISO Stick ISO Spray R or 152.4 mm (6") o.c. beads, 25.4 mm (1") beads, Twin Jet	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard Platinum EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T) Single-Ply LVOC BA Single-Ply LVOC BA 1168 Water Based BA P RubberGard Solvent Free BA Self-Adhered

RubberGard EPDM Adhered Membrane (Continued)

Steel 18-22 ga Y: 33 ksi T: 45 ksi 3.19 kPa (66.7 psf) Project Number: FBP-393-02-01 Assembly No. 2	Vapor Barrier: V-Force Thermal Barrier: ½" thick DensDeck Prime Attachment: 16 HD Fasteners/Plates Per 4′x8′ board	Insulation: Min. 2" thick, 4′x4′ boards ISOGARD GL/ISOGARD CG Attachment: 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack ISO Stick ISO Spray R or 152.4 mm (6") o.c. beads, 25.4 mm (1") beads, Twin Jet	N/A	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard Platinum EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T) Single-Ply LVOC BA Single-Ply LVOC BA 1168 Water Based BA P RubberGard Solvent Free BA Self-Adhered
Steel 18-22 ga Y: 33 ksi T: 45 ksi 2.4 kPa (50 psf) Project Number: FBP-393-02-01 Assembly No. 3	Vapor Barrier: V-Force	Insulation: Min. 2" thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment: Loose Laid Common Fastened	Cover Board: Min. 6 mm (¼") thick DensDeck Prime Attachment: 8 HD Fasteners per 4′x8′ board	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard Platinum EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T) Single-Ply LVOC BA Single-Ply LVOC BA 1168 Water Based BA P RubberGard Solvent Free BA Self-Adhered
Steel 18-22 ga Y: 33 ksi T: 45 ksi 2.4 kPa (50 psf) Project Number: FBP-393-02-01 Assembly No. 4	Vapor Barrier: V-Force	*Insulation (Top) (Optional):* *Min. 2" thick,* *4′x8′ boards* ISOGARD GL/ISOGARD CG *Attachment (Top) (Optional):* *152.4 mm (6") o.c. beads,* *19.05 mm (¾") beads,* *Twin Pack* *ISO Stick* *ISO Spray R* *or* *152.4 mm (6") o.c. beads,* *25.4 mm (1") beads, Twin Jet* Insulation (Bottom): Min. 2" thick, 4′x8′ boards ISOGARD GL/ISOGARD CG ISOGARD HD Comp. Attachment (Bottom): 8 HD Fasteners per 4′x8′ board	*Cover Board (Optional):* *Min. 6 mm (¼") thick,* *4′x4′ boards* *DensDeck Prime* *Securock* *Attachment:* *152.4 mm (6") o.c. beads,* *19.05 mm (¾") beads,* *Twin Pack* *ISO Stick* *ISO Spray R* *or* *152.4 mm (6") o.c. beads,* *25.4 mm (1") beads,* *Twin Jet*	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard Platinum EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T) Single-Ply LVOC BA Single-Ply LVOC BA 1168 Water Based BA P RubberGard Solvent Free BA Self-Adhered

RubberGard EPDM Adhered Membrane (Continued)

Steel 22 ga Y: 33 ksi 3.6 kPa (-75 psf) Project No.: 348T0017 Assembly No. 2	Air Barrier: 6 mil Polyethylene	Insulation: Min. 1.5" thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment: Loose Laid	Cover Board: 12.7 mm (½") thick ISOGARD HD Attachment: 18 AP Fasteners per 4′x8′ board	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage Single-Ply LVOC BA Water Based BA P Self-Adhered
Steel 22 ga Y: 33 ksi 3.2 kPa (-67 psf) Project No.: 348T0017 Assembly No. 3	Air Barrier: 6 mil Polyethylene	Insulation: Min. 2.5" (63.5 mm) thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment: 16 AP Fasteners per 4′x8′ board	Not Applicable	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM RubberGard EPDM SA Full Force EPDM SA Attachment: Full Coverage Single-Ply LVOC BA, Single-Ply LVOC BA 1168, BA-2004T, Water Based BA P Self-Adhered

RubberGard EPDM Adhered Membrane – Adhered Insulation/Cover Board

RUBBERGARD EPDM MEMBRANE - DYNAMIC UPLIFT RESISTANCE (DUR) AS PER CSA A123.21				
Deck Type & Uplift with SF of 1.5	**Vapor Barrier/ Thermal Barrier**	**Insulation and Attachment**	**Cover Board and Attachment**	**Membrane and Attachment**
Steel 22 ga Y: 33 ksi 3.6 kPa (-75 psf) Project No.: FBP-415-02-01 Assembly No. 1	Vapor Barrier: V-Force VB Attachment: Self-Adhered	Insulation (top): 38.1 mm (1.5") thick, ISOGARD GL/ISOGARD CG Attachment (top): 304.8 mm (12") o.c. beads, 19.05 mm (¾") beads, Twin Pack Adhesive; I.S.O. Stick Adhesive; Twin Jet Adhesive -or- 152.4 mm (6") o.c. beads, I.S.O. Spray R Adhesive Insulation (bottom): 38.1 mm (1.5") thick, ISOGARD GL/ISOGARD CG Attachment (bottom): 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack Adhesive; I.S.O.Stick Adhesive; I.S.O. Spray R Adhesive; Twin Jet Adhesive	Cover Board: 12.7 mm (½") thick ISOGard HD Attachment: 305 mm (12") o.c. beads, 19.0 5mm (¾") beads, Twin Pack Adhesive; I.S.O. Stick Adhesive; Twin Jet Adhesive -or- 152.4 mm (6") o.c. beads, I.S.O. Spray R Adhesive	Membrane: RubberGard EPDM SA Full Force EPDM SA -or- RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM Attachment: Self-Adhered -or- Fully Coverage UltraPly Bonding Adhesive Single-Ply LVOC Single-Ply LVOC 1168

Steel 22 ga Y: 33 ksi 3.8 kPa (-80 psf) Project No.: 348T0017 Assembly No. 1	Vapor Barrier: V-Force VB Attachment: Self-Adhered	Insulation (top): 38.1 mm (1.5") thick, ISOGARD GL/ISOGARD CG Attachment (top): 152.4 mm (6") o.c. beads, 19.05 mm (¾") beads, Twin Pack, I.S.O. Stick, Twin Jet, I.S.O. Spray R Insulation (bottom): 38.1 mm (1.5") thick, ISOGARD GL/ISOGARD CG Attachment (bottom): 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	Not Applicable	Membrane: RubberGard EPDM SA Full Force EPDM SA -or- RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM Fire-Retardant RubberGard EPDM Attachment: Self-Adhered -or- Fully Coverage UltraPly Bonding Adhesive Single-Ply LVOC Single-Ply LVOC 1168 BA-2004T Water Based Bonding Adhesive
Steel 22 ga Y: 33 ksi 3.0 kPa (-62 psf) File No.: FBPS-225611-03 System A	Vapor Barrier: V-Force VB Attachment: Self-Adhered *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *Securock* *Attachment:* *304.8 mm (12") o.c. beads,* *19.05 mm (¾") beads,* *Twin Pack*	Insulation (top): 38.1 – 101.6 mm (1.5" - 4") thick, ISOGARD GL/ISOGARD CG Attachment (top): 304.8 mm (12") o.c. beads, 19.05 mm (¾") beads, Twin Pack Insulation (bottom): 38.1 – 101.6 mm (1.5" - 4") thick, ISOGARD GL/ISOGARD CG Attachment (bottom): 304.8 mm (12") o.c. beads, 19.05 mm (¾") beads, Twin Pack	Cover Board: 12.7 mm (½") thick ISOGARD HD -or- Min. 6 mm (¼") thick, 4′x4′ boards Securock Attachment: 305 mm (12") o.c. beads, 19.0 5 mm (¾") beads, Twin Pack Adhesive	Membrane: RubberGard LS-FR EPDM RubberGard EcoWhite EPDM RubberGard MAX EPDM RubberGard MAX FR EPDM Fire-Retardant RubberGard EPDM Attachment: Full Coverage EPDM Bonding Adhesive BA-2004(T)

RubberGard EPDM Attached Membrane

RUBBERGARD EPDM MEMBRANE - DYNAMIC UPLIFT RESISTANCE (DUR) AS PER CSA A123.21				
Deck Type & Uplift with SF of 1.5	**Vapor Barrier/ Thermal Barrier**	**Insulation and Attachment**	**Cover Board and Attachment**	**Membrane and Attachment**
Steel 18-22 ga Y: 33 ksi T: 45 ksi 2.9 kPa (-60 psf) Document Number: PUB-DRU283221	Vapor Barrier: V-Force BaseGard SA Polyethylene Kraft paper *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck* *DensDeck Prime* *Securock* *Attachment:* *Loose Laid*	Insulation: 25 mm – 203 mm (1" – 8") thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment: Loose Laid Mechanically Attached	Cover Board: 3 mm – 15.9 mm (⅛" - ⅝") thick, ISOGARD HD ISOGARD HG Securock Attachment: 12 HD Fasteners per 4′x8′ board	Membrane: RubberGard MAX EPDM Platinum EPDM EcoWhite membranes EPDM PT membranes Attachment: 84"o.c. Metal Batten Strips, 12" o.c. HD Fasteners

Steel 18-22 ga Y: 33 ksi T: 45 ksi 3.2 kPa (-67 psf) File Number: FBPS-225611-01 System A	Vapor Barrier: V-Force BaseGard SA Polyethylene Kraft paper *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck* *DensDeck Prime* *Securock* *Attachment:* *Loose Laid*	Insulation: 38 mm – 203 mm (1.5" – 8") thick, 4′x8′ boards ISOGARD GL/ISOGARD CG Attachment: Loose Laid Mechanically Attached	Cover Board: 3 mm – 15.9 mm (⅜" - ⅝") thick, ISOGARD HD DensDeck Prime Securock Attachment: 12 HD Fasteners and Insulation Plates per 4′x8′ board	Membrane: RubberGard EPDM Platinum EPDM EcoWhite membranes RubberGard MAX EPDM EPDM PT membranes Attachment: 72" o.c. QuickSeam R.M.A. Strips 12" o.c. HD Fasteners and V-Plates
Deck Type & Uplift	**Vapor Barrier/ Thermal Barrier**	**Insulation and Attachment**	**Cover Board and Attachment**	**Membrane and Attachment**
Steel 22 ga Yield Strength: 275 MPa (40 ksi) **Passing Pressure:** 45 psf (1.15 kPa) **Wind Uplift Resistance (Resistance Factor 0.65):** 30 psf (1.44 kPa) **Document Number:** HSP-MARS-7 **Test Panel Number:** HSP-D5	Vapor Barrier: V-Force (Self-Adhered) BaseGard SA (Self-Adhered) 6-mil Polyethylene Kraft paper *Thermal Barrier (Optional):* *6 mm – 15.9 mm* *(¼" - ⅝") thick,* *DensDeck* *DensDeck Prime* *Securock* *Attachment:* *Loose Laid* *Adhered* *Mechanically Attached*	Insulation: Top Layer min. 38.1 mm (1.5") thick, 4′x 8′ boards ISOGARD GL/ISOGARD CG; ISOGARD HG; ISOGARD HD Composite *Attachment with optional Cover Board:* *Loose Laid* Attachment: 8 HD Fasteners and Insulation Plates per 4′x8′ board	*Cover Board (Optional):* *Min. 6.35 mm (¼") thick,* *4′x4′ boards* *DensDeck Prime* *Securock* *OR* *1/2" ISOGARD HD* *OR* *7/16" APA Rated OSB* *Attachment:* *8 HD Fasteners and* *Insulation Plates* *per 4′x8′ board*	Membrane: RubberGard MAX EPDM RubberGard MAX FR membranes Attachment: Elevate Heavy Duty Fasteners with Elevate V-Plates 114" o.c. Rows 6" o.c. Fasteners

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