Dynamic Wind Uplift Resistance Summary Report
CSA A123.21-2014

Document No.: 14-06-M0115-3, Revision 1 (S)
Date: 2016-07-09

Original Report Number: 14-06-M0115-3, Rev.2

Testing, calibrating, advising

Manufacturer:

Henry Company
15 Wallsend Drive
Toronto, Ontario
M1E 3X6

Roof System Construction Details: "HOT ASPHALT ADHERED ROOFING SYSTEM"

Cap Sheet:	NP250gT (torched)
Base Sheet:	Henry G100p/s adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive
Support Panel:	12.5mm (1/2") Asphalt Coated Wood Fibreboard, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive
Insulation:	Layer 1: 50mm (2") Atlas ACFoam II, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive Layer 2: 50mm (2") Atlas ACFoam II, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive
Vapour Barrier:	Henry G100s/s, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive
Thermal Barrier:	12.5mm (1/2") DensDeck Prime Gypsum Board, fastened with: 1-5/8" OMG #12 Standard RoofGrip Fastener with 3" Galvalume Ribbed Metal Plate8 fasteners per board
Decking:	Steel Deck, 22 ga, RD938, 230 MPa (33.4 ksi)

System Dynamic Uplift Resistance (DUR)*: 4.79 kPa (100 psf)

* As outlined in CSA A123.21-14, Section 10.1 the dynamic uplift resistance has been reduced by a safety factor of 1.5. As per CSA A123.21-2014, Section 4.1: "*The wind-induced forces on a roof and the responses of the system are time- and space-dependent, and thus are dynamic in nature. Design wind pressure varies with building location, height, roof slope, and other parameters. Using the local building code or wind standard or internet-based tool, Wind-Rci (found at www.sigders.ca), the design pressure of a roof assembly can be calculated.*"

Optional Components: Components of the roofing system designated as "optional" may be included or excluded from the roofing system under the published dynamic uplift resistance (DUR) value stated in this report.

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Substitutable Products:

Cap Sheet:	*a) NP180gT (torched)* *b) NP250gM or NP180gM, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive or MBA Gold*
Base Sheet:	*a) G100p/s or G100s/s, adhered with CSA A123.4 Type Type 2 Hot Asphalt Adhesive or MBA Gold*
Support Panel:	No Substitutable Products
Insulation:	Layer 1: 50mm (2") Atlas ACFoam III or Atlas ACFoam IV, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive Layer 2: 50mm (2") Atlas ACFoam III or Atlas ACFoam IV, adhered with: CSA A123.4 Type 2 Hot Asphalt Adhesive
Vapour Barrier:	G100p/s adhered with CSA A123.4 Type 2 Hot Asphalt Adhesive
Thermal Barrier:	No Substitutable Products
Decking:	Steel Deck, 22 ga, RD938, 230 MPa (33.4 ksi) or equivalent. Please insure that the roof deck and attachment method used meets or exceeds the system Dynamic Uplift Resistance load as outlined in this document using all applicable safety factors.
Substitutable Products:	Products as stated in this report are based on roof section sandwich construction tensile properties and failure mode analysis as outlined in Exova Report No.: 15-06-M0273 *(dated: 2015-12-04)*.

Note: This document is a summary of the test results outlined in Exova Report Numbers: 14-06-M0115-3, Revision 2 and 15-06-M0273 and is not a comprehensive report. Please refer to these documents for detailed information pertaining to the test specimen configuration and construction details.

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