



Evaluation Listing CCMC 13384-L NatureTech Engineered Wood Siding

Evaluation Issued: 2009-05-04
Re-evaluated: 2013-01-16
Re-evaluation due: 2015-05-04

Preface: Masterformat 07 46 26, Hardboard Siding

Preface Issued: 2007-06-14

Scope

These Evaluation Listings apply to Types 1, 2 or 5 listed in Table 1, below. Products evaluated demonstrate that they meet the requirements of either CAN/CGSB-11.3-M87, “Hardboard” for hardboard without a factory-applied finish, or CAN/CGSB-11.5-M87, “Hardboard, Pre-coated, Factory Finished, for Exterior Cladding” for hardboard with a factory-applied finish. Proponents have evidence that products manufactured at their plant are of a quality equal to or greater than the level represented by the sample tested and evaluated.

Table 1. Hardboard Siding Classification

Type	Class	Minimum Nominal Thickness (mm)	Application
1	Standard	6.0	On sheathed walls
		7.5	On non-sheathed walls
2	Tempered	6.0	On sheathed walls
		7.5	On non-sheathed walls
5	Exterior cladding	9.0	On sheathed walls with continuous support Over framing/furring members spaced not more than 400 mm on centre (o.c.)

Standard: CAN/CGSB-11.3-M87 or CAN/CGSB-11.5-M87

Table 2. General Performance Requirements

Test	Unit	Requirement
Dimensions	mm	0 to -3.2
Physical properties	No unit	See table 3
Squareness	mm/m	Corners shall not deviate by more than 1.3 from the right angle
Impact resistance	mm	min. 350 ¹

Table 2. General Performance Requirements (cont.)

Test	Unit	Requirement
Hardness	N	min. 2 600
Nail pull resistance	N	min. 750 ²
Lateral nail resistance	N	min. 750 ³
Accelerated aging (after 6 cycles)		
Residual modulus rupture	%	min. 50 ⁴
Permanent swell	%	max. 15 ⁴
Appearance	No unit	No serious surface or edge failure, i.e. no delamination and no disintegration.
Additional testing for factory-finished products only		
Coating appearance	No unit	The coatings shall be commercially uniform in appearance with no defects due to checking, cracking, pinholing or blistering. The colour coating shall be commercially uniform and provide a reasonable match with the colour specified.
Specular gloss	No unit	The tolerance shall be within $\pm 5\%$ of the agreed gloss, when determined with a 60° geometry on a plain sample.
Durability	No unit	The samples are to be inspected for not more than a slight colour change, no more chalking than that represented by a No. 6° of chalking; there should be no checking, cracking or objectionable fibre-raising.
Water resistance	%	Water absorption: max. 14
Water resistance	%	Thickness swell: max. 5
Moisture content	%	3 to 9 when shipped

Footnotes

- ¹ Initial drop of 350 mm.
- ² The specimen size shall be 75 mm x 150 mm. Three galvanized box nails, 2.87 mm in wire diameter and 6.75 mm in head diameter, shall be driven into the board at intervals of not less than 25 mm. The holding fixture shall consist of a plate with a centred opening, 40 mm in diameter, with a testing speed of 3 mm/min to 4 mm/min.
- ³ The nail shall be 3.28 mm in wire diameter and 7.14 mm in head diameter, and shall be driven into the specimen 9.5 mm from the edge, so that one-half of the nail is exposed on the other side of the specimen. The load shall be applied perpendicular to the long axis of the nail at a constant speed of 3 mm/min to 4 mm/min until failure occurs. Because galvanized nails may bend in this test, a steel carding pin or a steel drill rod of approximately the same diameter may be used.
- ⁴ The moduli of rupture shall be calculated based on the original board thickness. The swell shall be based on the difference in thickness before and after the cycling procedure.

Table 3. Physical Properties According to Type

		Requirements Type 1			Requirements Type 2			Requirements Type 5			
Nominal Thickness (mm)		6.0	7.5	9.0	6.0	7.5	9.0	9.0	10.5	12.7	
Property		Unit									
Thickness	minimum	mm	5.4	6.9	8.3	5.4	6.9	8.3	8.3	9.5	11.4
	maximum		6.6	8.1	9.7	6.6	8.1	9.7	9.7	11.2	13.3
Minimum modulus of rupture		MPa	30	30	30	45	45	45	13	13	13
Minimum tensile strength	parallel to surface	MPa	16	16	16	20	20	20	7.0	7.0	7.0
	perpendicular to surface		0.70	0.70	0.70	1.00	1.00	1.00	0.17	0.17	0.17
Maximum water resistance (after 24 h)	water absorption	%	16	14	12	12	8	8	20	20	20
	thickness swell		12	10	10	8	8	8	8	8	8
Minimum density		kg/m ³	880	880	880	910	910	910	600	600	600
Maximum linear expansion (at 50-90% relative humidity)		%	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Labelling

The CAN/CGSB-11.3-M87 standard requires that labelling of the product packaging be in conformance with Section 6.2, namely with the following information displayed:

- manufacturer’s name or trademark,
- quantity contained in package,
- thickness (mm), size and type,
- “CAN/CGSB-11.3-M87” and a statement that the product complies with the labelled standard, and
- “CCMC XXXXX-L,” which shall be both visible and legible. Where permanently identifying a product is not possible, other forms and methods of identification may be allowed pending review and approval by a CCMC evaluation officer.

Where applicable, the product shall bear additional information as stated below:

- any necessary user safety information, unless a separate information sheet is provided; and
- any additional information required by applicable acts and regulations.

The CAN/CGSB-11.5-M87 standard requires that labelling of the product packaging must be in conformance with Section 6.2, namely with the following information displayed:

- supplier’s name,
- style of cladding component,
- finish of cladding component,
- colour of coating,
- quantity (for siding panels this is expressed in terms of effective coverage),
- “CAN/CGSB-11.5-M87” and a statement that the product complies with the labelled standard, and
- “CCMC XXXXX-L,” which shall be both visible and legible. Where permanently identifying a product is not possible, other forms and methods of identification may be allowed pending review and approval by a CCMC evaluation officer.

Where applicable, the product shall bear additional information as stated below:

- any necessary user safety information, unless a separate information sheet is provided; and
- any additional information required by applicable acts and regulations.

National Building Code of Canada (NBC)

NBC References

The CAN/CGSB-11.3-M87 standard is referenced in:

- NBC 2005, Table 5.10.1.1., Articles 9.27.10.1., 9.29.7.1. and 9.30.2.2.

The CAN/CGSB-11.5-M87 standard is referenced in:

- NBC 2005, Table 5.10.1.1. and Article 9.27.10.1.

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1. Evaluation

Conforms to CAN/CGSB-11.3-M87, Type 5 and CAN/CGSB-11.5-M87.

2. Description

A 12-mm, medium-density, prefinished engineered wood siding with a textured surface and finished with 4 coats of acrylic paint.

Table 2.1 Siding Styles and Dimensions

Style	Surface	Assembling Method	Width (mm)	Length (mm)
Classic 6"	Textured	Designed interlock system	152	3658
Heritage 6" Dutchlap	Textured	Designed interlock system	152	3658
Distinction Double 3" Dutchlap	Textured	Designed interlock system	152	3658
Prestige Double 5" Dutchlap	Textured	Designed interlock system	279	3658
Provincial Vertical Double 5" Dutchlap	Textured	Designed interlock system	178	3658
Hampton Shake	Textured	Designed interlock system	190.5	1235

3. Standard and Regulatory Information

See the [Preface](#) and the standard for explanation.

Listing Holder

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Terrebonne, QC

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