



CANADIAN CODE
COMPLIANCE EVALUATION



CCMC 15042-R

CCMC Canadian code compliance evaluation

CCMC number:	15042-R
Status:	Active
Issue date:	2026-09-17
Modified date:	2026-09-29
Evaluation holder:	Trunorth Composites Inc. 55 Plant Farm Boulevard Brantford ON N3S 7W2 Canada Website: trunorthdecking.com/ Telephone: 905-265-0022 extension 227 Email: contactus@trunorthdeck.com
Product name:	Accuspan Square Edge and Grooved Edge decks boards
Compliance:	NBC 2020, OBC 2024
Criteria:	CCMC-TG-067314.01-20, "CCMC Technical Guide for Wood Thermoplastic Composite Lumber Exterior Decking"

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.

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Compliance opinion

It is the opinion of the Canadian Construction Materials Centre that the evaluated product, when used as exterior decking in accordance with the conditions and limitations stated in this evaluation, complies with the following codes:

Ontario Building Code 2024

Code provision	Solution type
9.4.3.1 Deflections	Alternative
9.8.9.1 Loads on Stairs and Ramps	Alternative
9.4.2.3 Platforms Subject to Snow and Occupancy Loads	Alternative
9.23.15.5 Subfloor Thickness or Rating	Alternative
9.3.2.9 Termite and Decay Protection	Alternative

National Building Code of Canada 2020

Code provision	Solution type
9.3.2.9. Termite and Decay Protection	Alternative
9.4.2.3. Platforms Subject to Snow and Occupancy Loads	Alternative
9.4.3.1. Deflections	Alternative
9.8.9.1. Loads on Stairs and Ramps	Alternative
9.23.15.5. Subfloor Thickness or Rating	Alternative

The above opinion(s) is/are based on the evaluation by the CCMC of technical evidence provided by the evaluation holder, and is bound by the stated conditions and limitations. For the benefit of the user, a summary of the technical information that forms the basis of this evaluation has been included.

Product information

Product name

Accuspan Square Edge and Grooved Edge decks boards

Product description

Accuspan Square Edge and Grooved Edge decks boards decking boards are cellulosic/polymer composite decking made primarily of rice hulls and reclaimed/recycled high-density polyethylene (HDPE) with additives for UV resistance, anti-oxidants and colorants with a cap stock incorporating UV inhibitors. The composite product is manufactured through a continuous extrusion process in planks of solid cross-section and grooved edges. The planks are manufactured in nominal dimensions of 25 mm × 131 mm and are available in 3.6 m, 4.88 m and 6.1 m lengths. Both sides of the product are finished in a simulated wood grain pattern; either side can be used as a walking surface. The product is intended to be used as exterior deck boards and stair treads to be installed over traditional structural wood framing, spaced at 381 mm on centre (o.c.), and on stair stringers, spaced at 292 mm o.c.

The products are installed with 75-mm-long face fasteners.

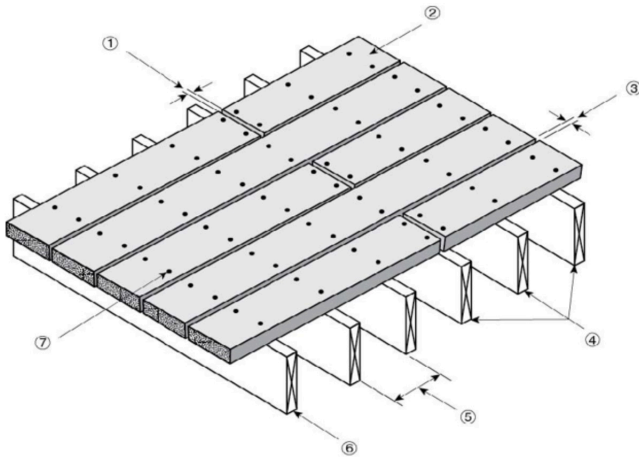


Figure 1. Installation details for the products

1. 3.2 mm to 9.5 mm minimum end-to-end gapping, depending on length of plank and temperature at installation
2. Accuspan Square Edge and Grooved Edge decks boards exterior decking
3. 5 mm to 6 mm minimum width-to-width gapping, depending on temperature at installation
4. minimum of three joists per plank
5. maximum joist spacing of 381 mm o.c.
6. joist designed to support applicable loads
7. two fasteners, 75 mm long, per support

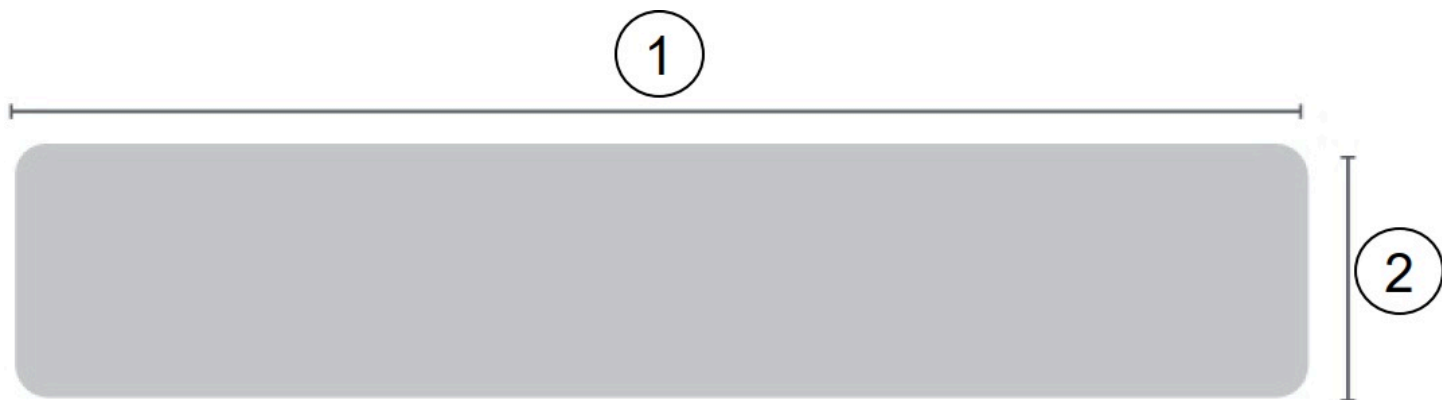


Figure 2. Accuspan Square Edge

- 1. 131 mm
- 2. 25 mm

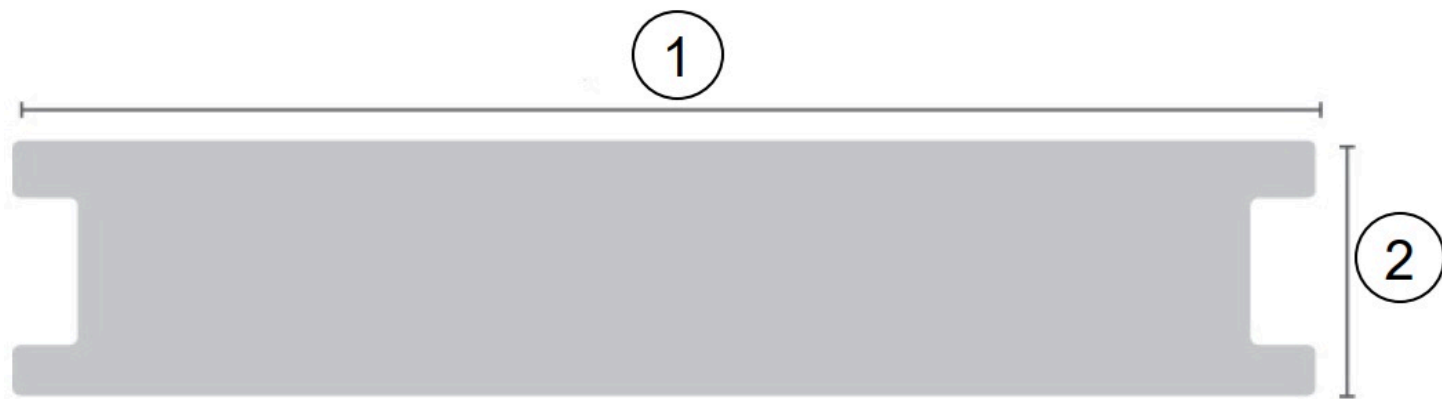


Figure 3. Accuspan Grooved Edge

- 1. 131 mm
- 2. 25 mm

Manufacturing plant

This evaluation is valid only for products produced at the following plant:

Product name	Manufacturing plant
	Brantford, ON, CA
Accuspan Square Edge and Grooved Edge decks boards	☑

☑ Indicates that the product from this manufacturing facility has been evaluated by the CCMC

Conditions and limitations

The CCMC's compliance opinion is bound by this product being used in accordance with the conditions and limitations set out below.

- The product must be installed with supports spaced no greater than 381 mm o.c. Each plank must be supported by at least three joists.
- The product must be fastened to the wood joists with fasteners specified by the manufacturer and conforming to Article 9.23.3.1., Standards for Nails and Screws, of Division B of the NBC 2020. The fasteners must have a corrosion-resistant coating ⁽¹⁾ or be made of stainless steel. The planks must be fastened with at least two fasteners per support and the fasteners must be at least 75 mm long.
- The product must not be installed below -6.7°C .
- The products must be gapped end to end, based on the length of the plank and the temperature at installation, in accordance with the manufacturer's recommendations. The end-to-end gapping must be:
 - 9.5 mm for installations below -1.1°C ;
 - 7.9 mm for installations between -1.1°C and 10.0°C ;
 - 6.4 mm for installations between 10.0°C and 21.1°C ; and
 - 3.2 mm for installations above 21.1°C .
- The width-to-width gapping of the planks must be 5 to 6 mm, depending on the ambient temperature at installation.
- Slip-resistant strips must be provided in accordance with Article 9.8.9.6, Finish for Treads and Landings, of Division B of the NBC 2020.
- The product is not to be considered as an equivalent to dimensional lumber.
- The product is permitted where decay resistance is required according to Sentence 9.3.2.9.(3)(a), Termite and Decay Prevention, of Division B of the NBC 2020.
- The product is permitted where termite resistance is required according to Sentence 9.3.2.9.(1)(b), of Division B of the NBC 2020.
- The product can be used as stair treads on stringers spaced at 292 mm o.c.
- Permanent point loads (such as gazebo posts) must be applied directly above the support.
- The product should be installed by a knowledgeable person familiar with the product installation guide.
- Installation of the product with hidden clip fastener systems is beyond the scope of this evaluation.

Note:

¹ As of January 2004, pressure-treated lumber requires specific hot-dipped galvanized fasteners for satisfactory performance.

Technical information

This evaluation is based on demonstrated conformance with the following criteria:

Criteria number	Criteria name
CCMC-TG-067314.01-20	CCMC Technical Guide for Wood Thermoplastic Composite Lumber Exterior Decking

The evaluation holder has submitted technical documentation for the CCMC's evaluation. Testing was conducted at laboratories recognized by the CCMC. The corresponding technical evidence for this product is summarized below.

Material requirements

Table 1. Results of testing physical and mechanical properties of the product

Property	Unit	Requirement	Result ⁽¹⁾ (2)
Dimensional change – coefficient of linear expansion (thermal) – longitudinal	cm/ cm/°C	$< 2 \times 10^{-5}$	5.36×10^{-5} (3)
Dimensional change – coefficient of linear expansion (thermal) – transverse	cm/ cm/°C	$< 2 \times 10^{-5}$	4.28×10^{-5} (3)
Dimensional change – coefficient of linear expansion (swelling) – oven dry to vacuum pressure soak	%	≤ 0.5 by 80% of specimens	0.00
Strength and stiffness – modulus of elasticity (MOE) – span-to-depth ratio within 18 to 21	MPa	≥ 750	1 674
Strength and stiffness – modulus of rupture (MOR) – span-to-depth ratio within 18 to 21	MPa	≥ 9	16.8
Impact resistance – Izod impact, notched	J/m	> 53.4	22.4 ⁽⁴⁾
Hardness – 11.28-mm-diameter ball	kN	> 1.8	7.6
Creep	%	≤ 25 for creep	37 ⁽⁵⁾
Recovery	%	≥ 75 for recovery	101
Load duration	-	No failure	Pass
Strength and stiffness after aging – weathering – impact resistance	%	≥ 75 of non-weathered value	101
Strength and stiffness after aging – accelerated aging – MOE	%	≥ 50 of non-aged value	86
Strength and stiffness after aging – accelerated aging – MOR	%	≥ 50 of non-aged value	118
Fastener holding capacity – face fastening – nail withdrawal strength	N	≥ 600	4 281
Fastener holding capacity – face fastening – lateral nail strength	N	≥ 720	3 171

Notes:

- 1 Average test results are based on six specimens, except for the results of the creep, recovery and load duration tests, which are based on three specimens.
 - 2 Test results were obtained to classify the product and are not intended to be used as engineering design properties.
 - 3 Performance result allowed based on manufacturer's gapping installation instructions.
 - 4 Performance result allowed based on the full-scale structural impact test results. The Izod impact is a small-scale test used to characterize the material. Very low performance values show a sensitivity to a loss of impact strength when the products are significantly damaged by a notch, cut or split. The products pass the large-scale impact floor tests, which are the primary performance indicators with respect to floor impact loads.
 - 5 Performance result allowed for decking application based on test results obtained in full-scale structural testing. The product's creep (deformation under constant load) results will be greater than that of lumber planks.
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Table 2. Results of testing the decay, termite and slip-resistance properties of the product

Property	Requirement	Result
Decay resistance – % loss in weight	Mean percentage loss in weight after exposure to decay-causing fungi must be equal to or better than preservative-treated wood conforming to CAN/CSA-O80.1-M97, "Preservative Treatment of All Timber Products by Pressure Processes"	Pass
Decay resistance – % loss compressive strength	Mean percentage loss in compressive strength after exposure to decay-causing fungi must be equal to or better than preservative-treated wood conforming to CAN/CSA-O80.1	Pass
Termite resistance	Rating must be equal to or better than preservative-treated wood conforming to CAN/CSA-O80.1	Pass
Slip resistance (all directions) – wet condition (surface profile "Mocha")	Slip coefficient ≥ 0.5	0.33 (1)
Slip resistance (all directions) – dry condition (surface profile "Mocha")	Slip coefficient ≥ 0.5	0.45 (1)

Note:

- 1 This performance may not meet all occupant expectations. When used as stair treads, slip-resistant strips must be provided in accordance with Article 9.8.9.6, Finish for Treads and Landings, of Division B of the NBC 2020. The manufacturer may be contacted for further information.
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Performance requirements

Table 3. Results of testing the performance of the product under both concentrated static loads and impact loads

Property	Unit	Requirement	Result (1)
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Concentrated static load – decking at 50°C – minimum ultimate load	kN	≥ 2.45	2.69
Concentrated static load – decking at 20°C – minimum ultimate load	kN	≥ 2.45	3.36
Concentrated static load – decking at –35°C – minimum ultimate load	kN	≥ 2.45	4.53
Concentrated static load – decking at 50°C – maximum deflection under 0.89 kN load	mm	≤ 2.0	5.5 ⁽²⁾
Concentrated static load – decking at 20°C – maximum deflection under 0.89 kN load	mm	≤ 2.0	3.6 ⁽³⁾
Concentrated static load – decking at –35°C – maximum deflection under 0.89 kN load	mm	≤ 2.0	2.9 ⁽³⁾
Following impact load of 102 N·m – decking at 50°C – minimum ultimate load	kN	≥ 1.78	No break
Following impact load of 102 N·m – decking at 50°C – maximum deflection under 0.89 kN load	mm	≤ 2.0	8.0 ⁽²⁾

Notes:

- ¹ Test results for planks with supports at 406 mm o.c.
- ² Deemed acceptable. Although this result exceeds the 2.0 mm requirement, the additional deflection is not considered significant for material at 50°C.
- ³ The results are deemed acceptable. The planks must be installed with supports no greater than 381 mm o.c. Each plank must be supported by at least three supports.

Table 4. Results of testing the durability of the product

Property	Requirement	Result – S-P-F lumber	Result – Tropics Deckboard
Bending stiffness	Mean percentage loss in bending stiffness (MOE) after ultraviolet (UV) exposure ⁽¹⁾ and accelerated aging ⁽²⁾ must be less than or equal to spruce lumber	22.5%	13.5%
Bending strength	Mean percentage loss in bending stress (MOR) after UV exposure ⁽¹⁾ and accelerated aging ⁽²⁾ must be less than or equal to spruce lumber	24.5%	–0.7%

Notes:

- ¹ 4 000 hours of Xenon-Arc exposure following Cycle 1 of ASTM D 2565-99, "Xenon-Arc Exposure of Plastics Intended for Outdoor Applications."
- ² Five cycles of accelerated aging (wetting, freezing, thawing and drying).

Table 5. Results of testing of performance under concentrated static load — stair tread

Property	Unit	Requirement	Result ⁽¹⁾
Concentrated static load – stair tread – minimum ultimate load	kN	≥ 5 ⁽²⁾	5.7

Concentrated static load – stair tread nosing – minimum ultimate load	kN	≥ 5 ⁽³⁾	6.4
Concentrated static load – stair tread – maximum deflection under 1 kN	mm	≤ 0.75	1.8 ⁽⁴⁾

Notes:

- 1 Test results are for stair stringers spaced at 305 mm o.c. at a test condition of 50°C and 80% relative humidity (RH). Three specimens were tested for each test.
- 2 Applied through a 75-mm-diam disk positioned at the centreline of the plank and midway between stringers.
- 3 Applied through a 38-mm-diam disk positioned along the outside edge of the nosing at the stringer location.
- 4 Deemed acceptable as the deflection is still low at 50°C. Stringer spacing must be at 292 mm o.c.

Additional performance data

Data in this section does not form part of the CCMC's opinion.

Table 6. Results of testing additional performance data – flame spread rating

Property	Unit	Reference value	Result
Flame spread rating	-	≤ 200	60
Smoke development	-	Report value	310

Administrative information

Use of Canadian Construction Materials Centre (CCMC) assessments

This assessment must be read in the context of the entire [CCMC Registry of Product Assessments](#), any applicable building code or by-law requirements, and/or any other regulatory requirements (for example, the [Canada Consumer Product Safety Act](#), the [Canadian Environmental Protection Act](#), etc.).

It is the responsibility of the user to confirm that the assessment they are using is current and has not been withdrawn or superseded by a later version on the [CCMC Registry of Product Assessments](#).

Disclaimer

The National Research Council of Canada (NRC) has evaluated only the characteristics of the specific product described herein. The information and opinions in this evaluation are directed to those who have the appropriate degree of experience to use and apply its contents (such as authorities having jurisdiction, design professionals and specifiers). This evaluation is valid when the product is used as part of permitted construction, respecting all conditions and limitations stated in the evaluation, and in accordance with applicable building codes and by-laws.

This evaluation is provided without representation, warranty or guarantee of any kind, expressed or implied, and the NRC provides no endorsement for any evaluated product. The NRC accepts no responsibility whatsoever arising in any way from any and all use of or reliance on the information contained herein or the use of any evaluated product. The NRC is not undertaking to render professional or other services on behalf of any person or entity nor to perform any duty owed by any person or entity to another person or entity.

Language

Une version française de ce document est disponible.

In the case of any discrepancy between the English and French version of this document, the English version shall prevail.

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CCMC recognition

The Canadian Construction Materials Centre (CCMC) assesses compliance with Canadian building, energy and safety codes. We are the only construction code compliance service supported and operated by the Government of Canada. Trusted by over 6,000 regulators across Canada.

Most Canadian authorities having jurisdiction (AHJs) consider CCMC product assessments acceptable as evidence for product approval.

CCMC assessments are recognized by construction authorities across Canada:

Alliance of Canadian Building Official Associations (ACBOA)



(Alliance of Canadian Building Official Associations (ACBOA))

First Nations National Building Officers Association (FNNBOA)



(First Nations National Building Officers Association (FNNBOA))

Canadian Home Builders' Association (CHBA)



(Canadian Home Builders' Association (CHBA))

Alberta Building Officials Association (ABOA)



(Alberta Building Officials Associations (ABOA))

Saskatchewan Building Officials Association (SBOA)



(Saskatchewan Building Officials Association (SBOA))

Manitoba Building Officials Association (MBOA)



(Manitoba Building Officials Association (MBOA))

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The CCMC provides code compliance assessments to Canadian code requirements, consulting nationwide with construction regulators to elicit regional variations in code requirements as well as provincial and local interpretations. Users are advised to review the technical information presented in CCMC assessments when making approval decisions. [Learn more about how the CCMC provides a unique service for Canada.](#)

For more information, contact the CCMC by phone at (613) 993-6189 or by email at ccmc@nrc-cnrc.gc.ca

Code compliance as an acceptable solution

Code Compliance via Acceptable Solutions

If a building design (e.g. material, component, assembly or system) can be shown to meet all provisions of the applicable **acceptable solutions** in Division B (e.g. it complies with the applicable provisions of a referenced standard), it is deemed to have satisfied the objectives and functional statements linked to those provisions and thus to have complied with that part of the Code.

— National Building Code of Canada, Sentence A-1.2.1.1.(1)(a)

The CCMC has determined that compliance with this provision of the Code has been demonstrated as an **Acceptable Solution**. The evaluation report provides a summary of the basis of CCMC's compliance opinion.

CCMC's code compliance opinions

All CCMC evaluation reports are opinions of code compliance established in accordance with the National Building Code of Canada, Subsection 1.2.1. "Compliance with this Code," which requires compliance to be achieved by:

- complying with the applicable acceptable solutions in Division B, or
- using an alternative solution that will achieve at least the minimum level of performance required by Division B in the areas defined by the objective and functional statements attributed to the applicable acceptable solutions.

The CCMC assesses compliance with Canadian building, energy and safety codes, and is trusted by over 6,000 regulators across Canada.

Code compliance as an alternative solution
