

# CCMC 14121-R

## CCMC Canadian code compliance evaluation

<b>CCMC number:</b>	14121-R
<b>Status:</b>	Active
<b>Issue date:</b>	2019-03-18
<b>Modified date:</b>	2022-11-17
<b>Evaluation holder:</b>	<p><b>Inteplast Group Corporation</b>            9 Peach Tree Hill Road            Livingston NJ 07039            United States            Website: <a href="http://www.inteplastbuild.com">www.inteplastbuild.com</a>            Telephone: 973-994-8027            Email: <a href="mailto:jwei@inteplast.com">jwei@inteplast.com</a></p>
<b>Product names:</b>	<ul style="list-style-type: none"> <li>• Inteplast Deck</li> <li>• Inteplast Porch</li> <li>• Wolf Serenity Deck</li> <li>• Wolf Serenity Porch Exterior Decking</li> </ul>
<b>Code compliance:</b>	NBC 2015
<b>Evaluation requirements:</b>	CCMC-TG-067315.03-15 "CCMC Technical Guide for Exterior Decking Planks Made of Solid Core PVC foam Capped with Styrene Copolymer"

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

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## Code compliance opinion

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

### National Building Code of Canada 2015

Code provision	Solution type
9.4.2.1. Application	<u>Alternative</u>
9.4.2.2. Specified Snow Loads	<u>Acceptable</u>
9.4.2.3. Platforms Subject to Snow and Occupancy Loads	<u>Acceptable</u>
9.4.3.1. Deflections	<u>Alternative</u>
9.8.9.1. Loads on Stairs and Ramps	<u>Acceptable</u>
9.8.9.3. Exterior Wood Steps	<u>Alternative</u>
9.8.9.6. Finish for Treads and Landings	<u>Acceptable</u>
9.23.15.5. Subfloor Thickness or Rating	<u>Alternative</u>

The above opinion is 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 names

- Inteplast Deck
- Inteplast Porch
- Wolf Serenity Deck
- Wolf Serenity Porch Exterior Decking

## Product description

Inteplast Deck, Wolf Serenity Deck, Inteplast Porch and Wolf Serenity Porch are exterior decking planks made of solid core foamed polyvinyl chloride (PVC) extrusions with a styrene copolymer cap layer. Inteplast Deck and Wolf Serenity Deck consist of solid profile (non-interlocking) decking boards that are 139.7 mm wide × 25.4 mm thick. Inteplast Porch and Wolf Serenity Porch consist of interlocking tongue and groove decking boards that are 79.0 mm wide (84.1 mm wide including tongue) × 25.4 mm thick. The products are available in 28 different colours.

The products are intended to be used as exterior decking to be installed over traditional structural wood framing.

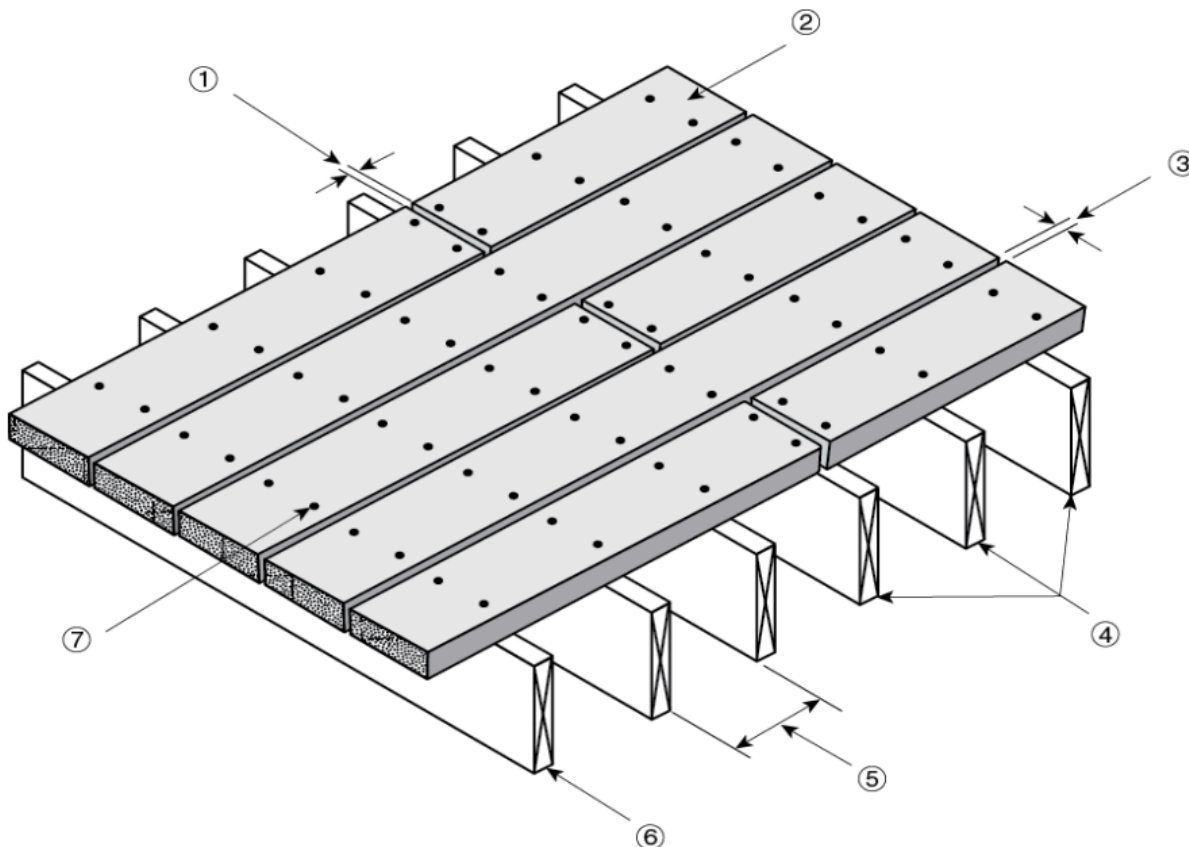


Figure 1. Installation details for Inteplast Deck and Wolf Serenity Deck, solid profile

1. 3 mm to 5 mm minimum spacing between ends of the planks, depending on length of plank and temperature at installation
2. Inteplast Deck or Wolf Serenity Deck board

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3. 3 mm to 5 mm minimum spacing
4. minimum of 3 joists per deck board
5. maximum joist spacing at 400 mm on centre (o.c.)
6. joist designed to support applicable loads
7. two 63.5-mm-long fasteners (exposed fasteners) per support

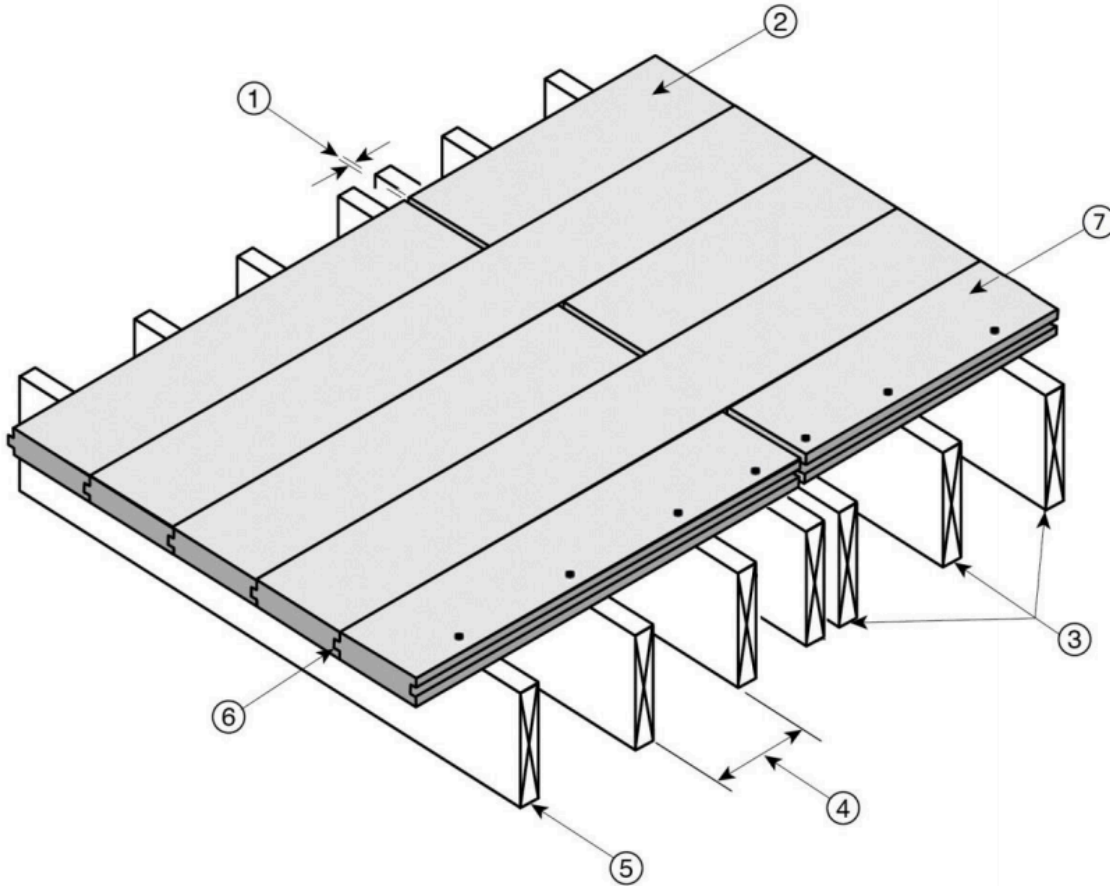


Figure 2. Installation details for Inteplast Porch and Wolf Serenity Porch, interlocking (tongue-and-groove) profile

1. 3 mm minimum spacing
2. Inteplast Porch or Wolf Serenity Porch non-starting board, one 63.5-mm-long fastener per support at the tongue with 30° to 45° angles off vertical
3. minimum of 3 joists per deck board
4. maximum joist spacing at 400 mm o.c.
5. joist designed to support applicable loads
6. no spacing, tongue-and-groove interlocking boards, and product must not be installed below 0°C temperatures
7. starting board, two 63.5-mm-long fasteners per support. First fastener (exposed) perpendicular and the second at the tongue with 30° to 45° off vertical.

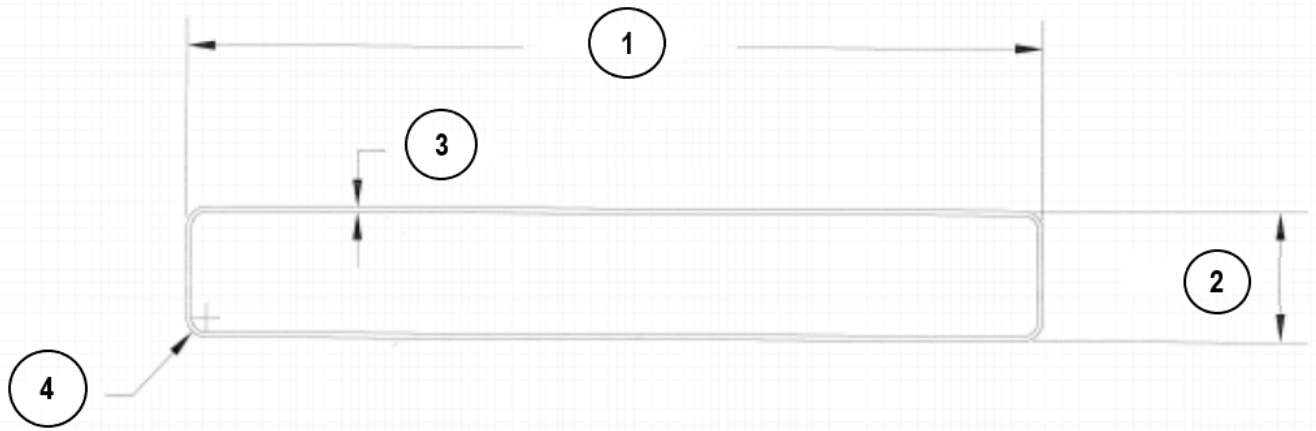


Figure 3. Inteplast Deck and Wolf Serenity Deck solid profile

- 1. 139.7 mm
- 2. 25.4 mm
- 3. CAP
- 4. R3.2 mm

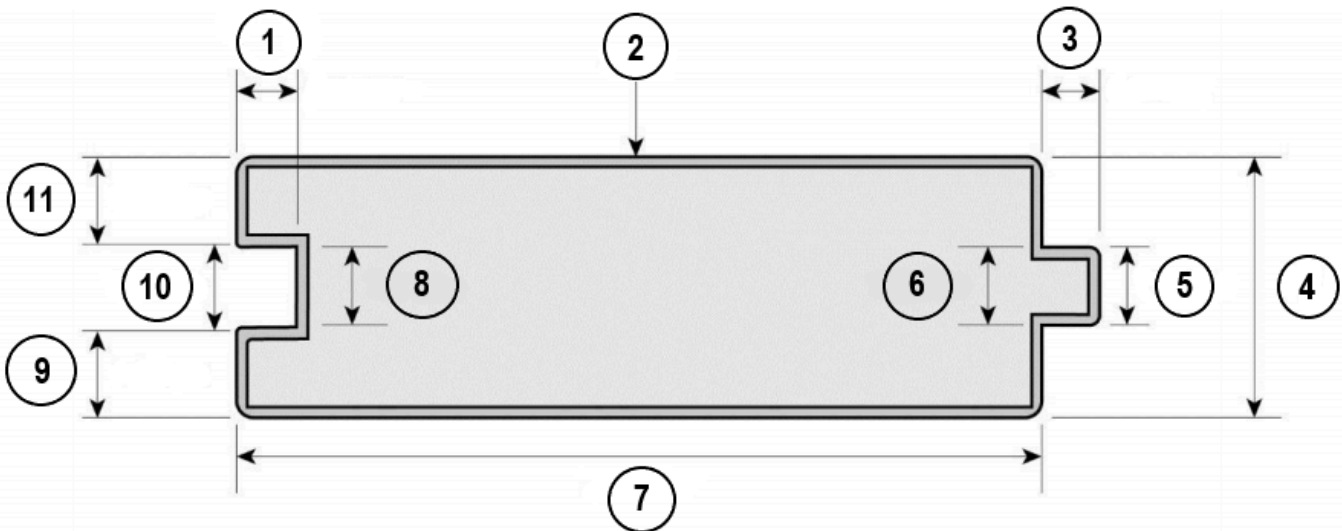


Figure 4. Inteplast Porch and Wolf Serenity Porch interlocking profile

- 1. 5.9 mm
- 2. CAP
- 3. 5.5 mm
- 4. 25.4 mm
- 5. 7.1 mm
- 6. 7.5 mm
- 7. 79.4 mm
- 8. 7.6 mm
- 9. 8.5 mm
- 10. 8.0 mm
- 11. 8.5 mm

## Manufacturing plant

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

Product names	Manufacturing plant
	Lolita, TX, US
Inteplast Deck	☑
Inteplast Porch	☑
Wolf Serenity Deck	☑
Wolf Serenity Porch Exterior Decking	☑

☑ 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 products must be installed with supports spaced no greater than 400 mm o.c. Each plank must be supported by at least three joists.
- The products must be fastened to the wood joists with fasteners specified by the manufacturer and that conform to Article 9.23.3.1., Standards for Nails and Screws, of Division B of the NBC 2015. The fasteners must have a corrosion-protection coating or be made of stainless steel.
  - Inteplast Deck and Wolf Serenity Deck planks must be fastened with at least two 63.5-mm-long fasteners per support;
  - Inteplast Porch and Wolf Serenity Porch interlocking (tongue-and-groove) **starting** planks must be fastened with at least two 63.5-mm-long fasteners: one vertical and the other with 30° to 45° angles off vertical at the tongue section; and
  - Inteplast Porch and Wolf Serenity Porch interlocking (tongue-and-groove) **non-starting** planks must be fastened with at least one 63.5-mm-long fastener at the tongue section with 30° to 45° angles off vertical.

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

- Inteplast Deck and Wolf Serenity Deck (solid profile) gapping requirements:
  - The minimum width-to-width gapping must be 3 mm (0.12 in.) to 5 mm (0.18 in.); and
  - The minimum end-to-end gapping must be 3 mm (0.12 in.) for installations at 0°C to 24°C, and 5 mm (0.18 in.) for installations below 0°C.
- Inteplast Porch and Wolf Serenity Porch (interlocking – tongue-and-groove) gapping requirements:
  - There is no width-to-width gapping for Inteplast Porch and Wolf Serenity Porch since they are interlocking (tongue-and-groove) decking systems.
  - The minimum end-to-end gapping must be 3 mm (0.12 in.).
  - **Inteplast Porch and Wolf Serenity Porch (interlocking – tongue-and-groove) must not be installed at temperatures below 0°C.**
- Inteplast Deck and Wolf Serenity Deck (solid profile) can be used as stair treads at 230 mm (9 in.) o.c. spacing.
- Inteplast Porch and Wolf Serenity Porch (interlocking – tongue-and-groove) **cannot** be used as stair treads.
- The products have **not** been evaluated for applications where termite and decay protection is required as per Article 9.3.2.9., Termite and Decay Protection, of Division B of the NBC 2015.
- The products are **not** to be considered as an equivalent to dimensional lumber.
- The products should be installed by a knowledgeable person familiar with the product installation guide.
- The products' label or packaging must be identified with the manufacturer's name or logo and the phrase "CCMC 14121-R."

## Technical information

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

Criteria number	Criteria name
CCMC-TG-067315.03-15	CCMC Technical Guide for Exterior Decking Planks Made of Solid Core PVC foam Capped with Styrene Copolymere

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. Test results for basic physical and mechanical properties

Property	Unit	Requirement	Result <sup>(1)</sup>
Dimensional change – coefficient of linear thermal expansion – longitudinal	°C <sup>-1</sup>	$< 2 \times 10^{-5}$	$3.39 \times 10^{-5}$ <sup>(2)</sup>
Dimensional change – coefficient of linear thermal expansion – transverse	°C <sup>-1</sup>	$< 2 \times 10^{-5}$	$3.98 \times 10^{-5}$ <sup>(2)</sup>
Dimensional change – coefficient of linear expansion (swelling) – oven-dry to vacuum pressure soak	%	≤ 0.5, by 80% of specimens	- 0.40
Strength and stiffness – Inteplast Deck and Wolf Serenity Deck – flexural rigidity (EI)	kN·mm <sup>2</sup>	≥ 300 000	269 000 <sup>(3)</sup>
Strength and stiffness – Inteplast Deck and Wolf Serenity Deck – moment capacity (M <sub>r</sub> )	N·mm	≥ 190 000	329 300
Strength and stiffness – Inteplast Porch and Wolf Serenity Porch – EI	kN·mm <sup>2</sup>	≥ 300 000	212 900
Strength and stiffness – Inteplast Porch and Wolf Serenity Porch – M <sub>r</sub>	N·mm	≥ 190 000	236 600
Creep, recovery and load duration – Inteplast Deck and Wolf Serenity Deck	%	≤ 25 for creep	12
Creep, recovery and load duration – Inteplast Deck and Wolf Serenity Deck	%	≥ 75 for recovery	94
Creep, recovery and load duration – Inteplast Deck and Wolf Serenity Deck	%	No failure	Pass
Creep, recovery and load duration – Inteplast Porch and Wolf Serenity Porch	%	≤ 25 for creep	15
Creep, recovery and load duration – Inteplast Porch and Wolf Serenity Porch	%	≥ 75 for recovery	93
Creep, recovery and load duration – Inteplast Porch and Wolf Serenity Porch	%	No failure	Pass
Strength and stiffness after aging – weathering – impact resistance	%	≥ 50% failure (10 J)	39.4% <sup>(4)</sup>
Strength and stiffness after aging – accelerated aging – Inteplast Deck and Wolf Serenity Deck – EI	%	≥ 50 of non-aged value	92
Strength and stiffness after aging – accelerated aging – Inteplast Deck and Wolf Serenity Deck – M <sub>r</sub>	%	≥ 50 of non-aged value	96
Strength and stiffness after aging – accelerated aging – Inteplast Porch and Wolf Serenity Porch – EI	%	≥ 50 of non-aged value	90
Strength and stiffness after aging – accelerated aging – Inteplast Porch and Wolf Serenity Porch – M <sub>r</sub>	%	≥ 50 of non-aged value	92
Fastener-holding capacity – nail withdrawal strength	N	≥ 600	2 353
Fastener-holding capacity – lateral nail strength	N	≥ 720	2 993
Flame-spread rating	—	≤ 200	90

### Notes

- 1 Test results were obtained to classify the product and are not intended to be used for engineering design properties.
- 2 Performance result allowed based on the manufacturer's gapping installation instructions. Inteplast Porch and Wolf Serenity Porch (interlocking – tongue-and-groove) must not be installed at temperatures below 0°C.
- 3 Deemed acceptable based on modulus of elasticity criteria (MoE ≥ 750 MPa) by calculation.
- 4 Performance result allowed based on the full-scale structural impact test results.

## Performance requirements

**Table 2. Test results for performance under both concentrated static loads and impact loads – Inteplast Deck and Wolf Serenity Deck**

Property	Requirement – minimum ultimate load (kN)	Requirement – maximum deflection under 0.89 kN Load (mm)	Result <sup>(1)</sup> – ultimate load (kN)	Result <sup>(1)</sup> – deflection under 0.89 kN load (mm) <sup>(2)</sup>
Concentrated load – decking at 50°C	2.45	2.0	3.99	5.46
Concentrated load – decking at 20°C	2.45	2.0	4.49	4.49
Concentrated load – decking at -35°C	2.45	2.0	5.37	3.69
	Requirement – minimum ultimate load following impact load (kN)	Requirement – maximum deflection under 0.89 kN load following impact load (mm)	Result – ultimate load following impact load (kN)	Result – deflection under 0.89 kN load following impact load (mm)
Impact load of 102 N·m – decking at 50°C	1.78	2.0	1.78	4.09 <sup>(3)</sup>

### Notes

- 1 Test results for planks with supports at 400 mm o.c.

- 2 The deflection results exceed the requirements. The additional deflection will not impact the overall performance.
- 3 Deemed acceptable. Although this result (4.09 mm) exceeds the 2.0 mm requirement, the additional deflection is not considered significant for material at 50°C. No failure after impact load and recovery was greater than 94%.

**Table 3. Test results for performance under both concentrated static loads and impact loads – Inteplast Porch and Wolf Serenity Porch**

Property	Requirement - minimum ultimate load (kN)	Requirement - maximum deflection under 0.89 kN load (mm)	Result <sup>(1)</sup> – ultimate load (kN)	Result <sup>(1)</sup> – deflection under 0.89 kN load (mm) <sup>(2)</sup>
Concentrated load – decking at 50°C	2.45	2.0	7.70	2.88
Concentrated load – decking at 20°C	2.45	2.0	7.97	2.21
Concentrated load – decking at -35°C	2.45	2.0	9.71	2.44
	Requirement – minimum ultimate load following impact load (kN)	Requirement – maximum deflection under 0.89 kN load following impact load (mm)	Result – ultimate load following impact load (kN)	Result – deflection under 0.89 kN load following impact load (mm)
Impact load of 102 N·m – decking at 50°C	1.78	2.0	1.78	2.52 <sup>(3)</sup>

**Notes**

- 1 Test results for planks with supports at 400 mm o.c.
- 2 The deflection results exceed the requirements. The additional deflection will not impact the overall performance.
- 3 Deemed acceptable. Although this result (2.52 mm) exceeds the 2.0 mm requirement, the additional deflection is not considered significant for material at 50°C. No failure after impact load and recovery was greater than 93%.

**Table 4. Test results for durability**

Property	Requirement	Result – Spruce-Pine-Fir (S-P-F) lumber	Result – Inteplast Deck and Wolf Serenity Deck board
<b>Bending stiffness</b>	Mean percentage loss in bending stiffness (EI) after UV exposure <sup>(1)</sup> and accelerated aging <sup>(2)</sup> must be less than or equal to spruce lumber.	49.7%	5.8%
<b>Moment capacity</b>	Mean percentage loss in moment capacity (M <sub>r</sub> ) after UV exposure <sup>(1)</sup> and accelerated aging <sup>(2)</sup> must be less than or equal to spruce lumber.	63.3%	15.0%

**Notes**

<sup>1</sup> 4 000 h of Cycle 1 as outlined in Appendix X3.1 of ASTM G 155-13, “Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials.”

<sup>2</sup> The accelerated aging cycle, which includes wetting, freezing, thawing and drying, is repeated five times.

**Table 5. Test results for performance under concentrated static load – stair tread – Inteplast Deck and Wolf Serenity Deck**

Property	Requirement – minimum ultimate load (kN)	Requirement – maximum deflection under 1 kN (mm)	Result <sup>(1)</sup> – applied ultimate load (kN)	Result <sup>(1)</sup> – deflection under 1 kN (mm)
<b>Concentrated load – stair tread</b>	5.0 <sup>(2)</sup>	0.75	6.61	2.24 <sup>(3)</sup>
<b>Concentrated load – stair tread nosing</b>	5.0 <sup>(4)</sup>	0.75	5.35	2.24 <sup>(3)</sup>

**Notes**

<sup>1</sup> Test results are for stair stringers spaced at 300 mm o.c. at a test condition of 50°C. Three specimens were tested for each test.

<sup>2</sup> Applied through a 75-mm-diam disk positioned at the centre line of the plank and midway between stringers.

<sup>3</sup> Maximum joist spacing for stair treads has been reduced to 230 mm.

<sup>4</sup> Applied through a 38-mm-diam disk positioned along the outside edge of the nosing at the stringer location.

**Table 6. Test results for wind uplift resistance for interlocking (tongue-and-groove) decking – Inteplast Porch and Wolf Serenity Porch**

Property	Requirement – minimum ultimate load (kN)	Result <sup>(1)</sup> - applied ultimate load (kN)
Concentrated load	No sign of fastener withdrawal, fastener head pull-through or interlock joint failure at 0.20 kN	7.35

**Note**

<sup>1</sup> Applied through a 75 mm steel disk near a plank interlocking edge at mid-span of the middle span (three span configuration).

**Additional performance data**

**Table 7. Test results for additional performance data**

Property	Unit	Requirement	Result
Density	kg/m <sup>3</sup>	Report value	640
Hardness (11.28-mm-diam ball)	kN	≥ 1.8	3.23
Gardner impact resistance	—	≤ 50% failure (10 J)	100% failure after impact of 10 J <sup>(1)</sup>
Slip resistance (longitudinal) – dry condition	—	≥ 0.5	0.74
Slip resistance (longitudinal) – wet condition	—	≥ 0.5	0.75
Slip resistance (transverse) – dry condition	—	≥ 0.5	0.85
Slip resistance (transverse) – wet condition	—	≥ 0.5	0.87

**Note**

<sup>1</sup> Performance result allowed based on the full-scale structural impact test results. However, this criterion may not meet all occupant expectations. The manufacturer must be contacted for further information.

# Administrative information

## Disclaimer

This evaluation is issued by the Canadian Construction Materials Centre (CCMC), a part of the Construction Research Centre at the National Research Council of Canada (NRC). The evaluation must be read in the context of the entire [CCMC Registry of Product Assessments](#) and the legislated applicable building code in effect.

The CCMC was established in 1988 on behalf of the applicable regulator (i.e., the provinces and territories) to ensure—through assessment—conformity of alternative and acceptable solutions to regional building codes as determined by the local authority having jurisdiction (AHJ) as part of the issuance of a building permit.

It is the responsibility of the local AHJs, design professionals, and specifiers to confirm that the evaluation is current and has not been withdrawn or superseded by a later issue. Please refer to [the website](#) or contact:

### Canadian Construction Materials Centre

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## Language

Une version française de ce document est disponible.

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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)



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Saskatchewan Building Officials Association (SBOA)



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Ontario Building Officials Association (OBOA)



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[\(Nova Scotia Building Officials Association \(NSBOA\)\)](#)

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](mailto: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

## Code Compliance via Alternative Solutions

Where a design differs from the acceptable solutions in Division B, then it should be treated as an **"alternative solution."** A proponent of an alternative solution must demonstrate that the alternative solution addresses the same issues as the applicable acceptable solutions in Division B and their attributed objectives and functional statements. However, because the objectives and functional statements are entirely qualitative, demonstrating compliance with them in isolation is not possible. Therefore, Clause 1.2.1.1.(1)(b) identifies the principle that Division B establishes the quantitative performance targets that alternative solutions must meet. In many cases, these targets are not defined very precisely by the acceptable solutions [...] Nevertheless, Clause 1.2.1.1.(1)(b) makes it clear that an effort must be made to demonstrate that an alternative solution will perform as well as a design that would satisfy the applicable acceptable solutions in Division B—not “well enough” but “as well as.”

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

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

### CCMC's code compliance opinions

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