



**PUBLISHED:** March 2026  
**REVISED:** March 2026  
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**PRODUCT:** SEAMLESS POSTS

**REPORT HOLDER:** CureWood Engineered Building Products Ltd.

**CONTACT DETAILS:** 1104-1088 Quebec Street  
Vancouver British Columbia  
Canada V6K 4A8

**CSI DIVISION:** 06 00 00 – Wood, Plastics, and Composites

**CSI SECTION:** 06 11 13 – Engineered Wood Products

**APPLICABLE CODES:** 2020 National Building Code of Canada (NBC)  
2024 British Columbia Building Code (BCBC)  
2023 National Building Code of Canada Alberta Edition (NBC(AE))

**EVALUATED:** Structural Capacity



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# CANADIAN CODE EVALUATION REPORT

## 1.0 APPROVED FOR FOLLOWING:

|                                 |   |
|---------------------------------|---|
| APPROVED TYPES OF CONSTRUCTION: | Combustible   |
| APPROVED USE:                   | Columns and posts.  |
| APPROVED INSTALLATIONS:         | Interior and exterior (weather protected) load and non-load bearing applications. |

## 2.0 DESCRIPTION:

### 2.1 General:

Seamless Post are engineered wood products manufactured finger-jointed minimum Spruce-Pine-Fir (SPF) Stud Grade lumber, factory laminated to create vertical posts of cross-sectional dimensions outlined in Table 1 of this report. Seamless Post are available in lengths up to maximum 6.1 m (20 ft) for use in loadbearing applications. Non-loadbearing lengths > 6.1 m are available on customer request.

Seamless Post can be installed in interior or exterior applications, where properly protected from weather and moisture absorption for use in dry condition as defined by CSA O86 *Engineering Design in Wood*.

Seamless Post is intended for non-loadbearing, and loadbearing applications, where Seamless Post service loads do not exceed values published in Section 8.2 Table 2 of this report supported by Engineering Design.

### 2.2 Finger-Jointed Lumber:

Seamless Post finger-jointed lumbers are SPF Stud or better SPS 3 lumber bearing the mark by an approved Canadian Lumber Standards Accreditation Board agency.

### 2.3 Adhesive:

Seamless Post laminated adhesives conform with CSA O112.9-10 *Evaluation of Adhesives for Structural Wood Products (Exterior Exposure)* and APA/ANSI PRG 320-18 *Standard for Performance-Rated Cross-Laminated Timber*.

## 3.0 DESIGN:

Seamless Post are engineered wood columns requiring Engineering Design in accordance CSA O86 per Part 4 of the 2020 National Building Code of Canada (NBC). Service loads are not to exceed load capacities outlined in Section 8.2 Table 2 of this report.

## 4.0 INSTALLATIONS:

### 4.1 General:

Installation of Seamless Post must comply with the manufacturer's published installation instructions, this report, the applicable code(s) and Engineering Design. Where differences are found between documents, this report and the applicable building code shall be followed. The manufacturer's published installation instructions are to be available at the jobsite during installation.

Seamless Post is intended for interior and exterior non-loadbearing and loadbearing applications. Seamless Post is to be protected from weather and water exposure.

Seamless Post is intended for applications subject to axial load conditions. Use in applications as a force resisting element as bending, shear or torsion resisting member is outside the scope of this report.

Connection of elements to Seamless Post is outside the scope of this report and to be in accordance with Engineering Design subject to the approval by the Authority Having Jurisdiction determined in accordance with the applicable code.

Seamless Posts are required to be larger than the width of the supported member, in accordance with Section 9.17.4.1 of the 2020 NBC, 2024 BCBC, 2023 NBCAE and 2024 OBC.

Seamless Posts are to be protected from concrete in contact with the ground by 0.05 mm polyethylene film or Type S roll roofing, unless otherwise approved by the Authority Having Jurisdiction in accordance with Section 9.17.4.3 of the 2020 NBC, 2024 BCBC, 2023 NBCAE and 2024 OBC.

## 5.0 LIMITATIONS

- Seamless Posts are to be installed in accordance with the manufacturer's installation instructions, the applicable code and this report. Where differences exist between documents, the applicable code and this report shall be followed.
- Seamless Posts are intended for applications subject to non-loadbearing, and axial loads. Applications as load resisting element for bending, shear and torsion are outside the scope of this report.
- Seamless Posts are intended for interior and exterior applications, where appropriately protected from weathering and water exposure.
- Seamless Post connection details are outside the scope of this report and to be in accordance with Engineering Design determined in accordance with the applicable code.
- Seamless Posts must be larger than the width of supported members in accordance with the applicable code.
- Seamless Posts are to be separated from concrete in contact with the ground by 0.05 mm polyethylene sheet, or Type S roll roofing or other means approved by the Authority Having Jurisdiction in accordance with Section 9.17.4.3 of the applicable code.
- Seamless Posts are manufactured in Surrey, BC under an approved quality program with inspections by QAI Laboratories.

## 6.0 SUPPORTING INFORMATION:

The following data has been submitted for evaluation of Seamless Posts:

- Axial capacity in accordance with ASTM 5456
- Bending capacity in accordance with ASTM 5456.
- Allowable load determinations in accordance with CSA O86:24.

## 7.0 MARKING:

Finished Seamless Posts include the following markings / information.

Products are marked in a permanent manner on the backside of each panel with the following:

- a) Company Name: Curewood Engineered Building Products
- b) Product Name: Seamless Post
- c) Date of Manufacture.
- d) CER<sub>CAD</sub>-1065
- e) QAI logo shown here:



**Figure 1. Seamless Post Finished Product Markings**



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## 8.0 RESULTS/RATINGS:

### 8.1 Seamless Post Geometrical and Mechanical Properties

**Table 1. Seamless Post Mechanical and Geometrical Properties**

| SIZE           | NET AREA<br>mm <sup>2</sup> (in <sup>2</sup> ) | RADIUS GYRATION<br>mm (in) |                      | MOMENT INERTIA<br>cm <sup>4</sup> (in <sup>4</sup> ) |                      | COMPRESSIVE<br>STRENGTH<br>PARALLEL TO<br>GRAIN<br>MPa (psi) | BENDING<br>STRENGTH<br>MPa (psi) | MODULUS OF<br>ELASTICITY<br>MPa (psi) |
|----------------|--|----------------------------|----------------------|--|----------------------|--|----------------------------------|---------------------------------------|
|                |  | r <sub>x</sub>             | r <sub>y</sub>       | I <sub>x</sub>                                       | I <sub>y</sub>       |  |                                  |                                       |
| <b>Nominal</b> | <b>A</b>                                       | <b>r<sub>x</sub></b>       | <b>r<sub>y</sub></b> | <b>I<sub>x</sub></b>                                 | <b>I<sub>y</sub></b> | <b>f<sub>c</sub></b>   | <b>f<sub>b</sub></b>             | <b>E</b>                              |
| 6 x 6          | 14,645 (22.7)                                  | 39.5 (1.6)                 | 39.5 (1.6)           | 2,976 (71)   | 2,976 (71)           | 15.5 (2,248)   | 15.8 (2,292)                     | 8,180 (1,185,000)                     |
| 8 x 8          | 20,847 (32.3)                                  | 49.1 (1.9)                 | 49.1 (1.9)           | 8,161 (196)  | 8,161 (196)          |  |                                  |                                       |

### 8.2 Factored Compressive Resistance Under Axial Load

**Table 2. CSA O86 Factored Compressive Resistance Under Axial Loads<sup>1,2,3,4</sup>**

| SPAN ft (m) | LOAD RESISTANCE FACTOR DESIGN (LRFD) |              |
|-------------|--------------------------------------|--------------|
|             | kips (kN)                            |              |
|             | 6 x 6                                | 8 x 8        |
| 4 (1.2)     | 184.6 (41.5)                         | 270.4 (60.8) |
| 6 (1.8)     | 169.0 (38.0)                         | 259.3 (58.3) |
| 8 (2.4)     | 144.6 (32.5)                         | 238.9 (53.7) |
| 10 (3.0)    | 117.0 (26.3)                         | 208.6 (46.9) |
| 12 (3.7)    | 90.7 (20.4)                          | 177.5 (39.9) |
| 14 (4.3)    | 68.9 (15.5)                          | 148.1 (33.3) |
| 16 (4.9)    | 52.0 (11.7)                          | 121.9 (27.4) |
| 18 (5.4)    | 40.0 (9.0)                           | 99.2 (22.3)  |
| 20 (6.1)    | 30.7 (6.9)                           | 81.0 (18.2)  |

1: Factored loads are determined based on uniform concentric loading.

2: Loads consider top and bottom supports as pin connections.

3: Factors used in above determination per CSA O86 are as follows:

$$\phi = 0.80$$

$$K_{Zcg} = 0.68(Z)^{-0.13} \leq 1.0$$

K<sub>C</sub> = Slenderness Factor determined in accordance with CSA O86 with  $E_{05} = 0.87E$

K<sub>D</sub> = 1.0 (Standard Term Load Duration)

K<sub>H</sub> = 1.0 (Single Member)

K<sub>Sc</sub> = 1.0 (Dry Service Condition 12% moisture content)

K<sub>T</sub> = 1.0 (Untreated)

4: Conditions outside the factors outlined above are to be evaluated in accordance with Engineering Design and approved by the authority having jurisdiction.



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## 9.0 Building Code References

**Table 3 – Building Code References and Solution Types:**

| Property              | Building Code(s)                 |                                  |                                  | Solution Type |
|-----------------------|----------------------------------|----------------------------------|----------------------------------|---------------|
|                       | 2020 NBC                         | 2024 BCBC                        | 2023 NBC(AE)                     |               |
| Design Basis for Wood | 4.3.1.1                          | 4.3.1.1                          | 4.3.1.1                          | Acceptable    |
| Wood Columns          | 9.17.4.1<br>9.17.4.2<br>9.17.4.3 | 9.17.4.1<br>9.17.4.2<br>9.17.4.3 | 9.17.4.1<br>9.17.4.2<br>9.17.4.3 | Alternative   |

**Table 4 – Building Code Objectives Reviewed:**

| Category                                       | Subcategory                                | Objective | Definition  |
|--|--|-----------|---|
| OS Safety                                      | OS2 Structural Safety                      | OS2.1     | Loads bearing on the building elements that exceed their loadbearing capacity |
|  |  | OS2.3     | Damage to or deterioration of building elements                               |
|  | OS3 Safety in Use                          | OS3.1     | Tripping, slipping, falling, contact, drowning or collision.                  |
| OP Fire and Structural Protection of Buildings | OP2 Structural Sufficiency of the Building | OP2.1     | Loads bearing on the building elements that exceed their loadbearing capacity |
|  |  | OP2.3     | Damage to or deterioration of building elements                               |
|  |  | OP2.4     | Vibration or deflection of building elements.                                 |
| OH Health                                      | OH1 Indoor Conditions                      | OH1.1     | Inadequate indoor air quality   |
|  |  | OH1.2     | Inadequate thermal comfort  |
|  |  | OH1.3     | Contact with moisture   |
|  | OH4  | -         | Vibration and deflection limitation.  |

**Table 5 – Building Code Functional Statements:**

| Statement | Definition  |
|-----------|---|
| F20       | To support and withstand expected loads and forces                  |
| F21       | To limit or accommodate dimensional change.                         |
| F22       | To limit movement under expected loads and forces.                  |
| F80       | To resist deterioration resulting from expected service conditions. |

## 10.0 ELIGIBILITY OF REPORT

QAI is an independent and accredited certification, testing and inspection agency following the requirements of ISO/IEC 17065, ISO/IEC 17025, and ISO/IEC 17020. Accreditations are held by QAI for the Conformity Assessment of products used in construction as governed by building codes. QAI operates in accordance with recognized standards of impartiality, technical competence and independence as required to support alternative solutions per the National Building Code of Canada (NBC) or provincial / municipal codes.

QAI's Canadian Code Evaluation Report is in accordance with the National Building Code of Canada (NBC) 2020, Division A, Section 1.2.1.1, which permits the use of alternative solutions to the acceptable solutions in Division B. An alternative solution must at least meet the minimum level of performance required or satisfy the intent of the Code defined by the objectives and functional statements associated to the applicable acceptable solutions. Supporting data has been evaluated by QAI for compliance of the noted materials and assemblies with the applicable Code requirements, as detailed in this report.

In accordance with STANDATA interpretation 23-BCI-005, QAI is recognized by the Government of Alberta Ministry of Municipal Affairs as an approved organization to issue evaluation reports to determine compliance with the requirements of the National Build Code Alberta Edition (NBC(AE)).

This Canadian Code Evaluation Report has been developed to demonstrate that the noted materials or assemblies satisfy the performance associated with the relevant objectives and functional statements of the NBC, or noted provincial / municipal codes, and is intended to support authorities having jurisdiction (AHJs), design professionals, contractors, and engineers in assessing the compliance of the evaluated product. The limitations of this evaluation are detailed in the report and QAI accepts no responsibility for site specific conditions and any product or installation changes beyond the scope of this evaluation.

The report has been reviewed and approved by a Registered Professional Engineer licensed in a Canadian jurisdiction.

The product is labelled and subject to ongoing surveillance using QAI's accredited ISO/IEC 17020 inspection program to ensure continued compliance.

For more information regarding QAI Laboratories, please visit [www.QAI.org](http://www.QAI.org).



The above is an example of the QAI registered Listing mark. The Listing mark may only be used by the Report Holder per the QAI service agreement on products defined in this report. The 'c' indicator in the 8 o'clock position indicates the product complies with the properties evaluated with limitations outlined in this report for use in the Canadian market. A 'us' indicator in the 4 o'clock position indicates the product has been evaluated for use in the US market.



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## 12.0 REFERENCED STANDARDS

*SPS 3 Special Product Standard for Fingerjoined “Vertical Stud Use Only” Lumber.*  
*ASTM D5456 Standard Specification for Evaluation of Structural Composite Lumber Products.*  
*ANSI 405 Standard for Adhesives for Use in Structural Glued Laminated Timber.*  
*APA/ANSI PRG 320 Standard for Performance-Rated Cross-Laminated Timber.*  
*ANSI/AWC National Design Specification (NDS) for Wood Construction.*