

**DIVISION: 06 00 00 - WOOD, PLASTIC, AND COMPOSITES**  
**Section: 06 11 13 Engineered Wood Products**

**REPORT HOLDER:**

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**REPORT SUBJECT:**

**RealPost™, RealPost Laminated™, and AbsolutePost™**

### 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2021 and 2018 *International Building Code*® (IBC)
- 2021 and 2018 *International Residential Code*® (IRC)

NOTE: This report references 2021 Code sections with [2018] Code sections shown in brackets where they differ.

**1.2** RealPost, RealPost Laminated, and AbsolutePost have been evaluated for the following properties (see Table 1):

- Structural

**1.3** RealPost, RealPost Laminated, and AbsolutePost have been evaluated for the following uses (see Table 1):

- Structural wood-based products as alternative to sawn lumber
- Columns for load-bearing and non-load-bearing applications

### 2.0 STATEMENT OF COMPLIANCE

RealPost, RealPost Laminated, and AbsolutePost comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

### 3.0 DESCRIPTION

#### 3.1 RealPost, RealPost Laminated, and AbsolutePost:

RealPost and RealPost Laminated columns are manufactured from SPF and AbsolutePost from Western Red Cedar lumber that has been finger-jointed, edge-laminated, and pressed into columns. The RealPost and AbsolutePost columns are offered in nominal sizes of 4 × 4, 6 × 6, and 8 × 8 inches, with actual dimensions, respectively, of 3-1/2 × 3-1/2, 5-1/2 × 5-1/2, and 7-1/4 × 7-1/4 inches. The RealPost Laminated columns are offered in a nominal size of 4 × 4, with actual dimensions of 3-1/4 × 3-1/4 inches. The columns have lengths up to 40 feet. The adhesives used for finger-jointing lumber and laminating of posts conform with ASTM D2559 and ASTM D7247.

### 4.0 PERFORMANCE CHARACTERISTICS

**4.1 Structural Load-Bearing:** RealPost and AbsolutePost columns utilize test data for compression parallel to grain, while RealPost Laminated columns utilize tabulated reference design values for compression parallel to grain. Calculated allowable column loads in Tables 2 and 3 are based upon ANSI/AWC National Design Specification (NDS) for Wood Construction, Chapter 3.6 Compression Members.

### 5.0 INSTALLATION

**5.1 General:** RealPost, RealPost Laminated, and AbsolutePost must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

**5.2 Application:** RealPost, RealPost Laminated, and AbsolutePost are intended to be used as light structural columns for load-bearing and non-load-bearing columns in buildings of combustible construction under normal temperature service conditions where the moisture content in use will be a maximum of 19%, regardless of the moisture content at the time of manufacture. Allowable



design loads for axial capacity are shown in Tables 2 and 3. Structural load-bearing columns are limited to the sizes and lengths shown in Tables 2 and 3 and are intended for axial loading only. Non-load-bearing columns may be any size and length manufactured for architectural appearances only.

**6.0 CONDITIONS OF USE**

**6.1** Installation must comply with this Research Report, the manufacturer’s published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

**6.2** Allowable loads in Tables 2 and 3 assume untreated application and normal temperature where the moisture content in use will be a maximum of 19%, with factors being 1.00. For other conditions see ANSI/AWC NDS. Increases due to load duration factor are only allowed for RealPost Laminated columns. Structural design must be in accordance with Section 4.1 of this report where design loads determined in accordance with the IBC and IRC, as applicable, must not exceed the loads show in Tables 2 and 3.

**6.3** RealPost, RealPost Laminated, and AbsolutePost are for above ground use. Wet service conditions are beyond the scope of this report. Columns are used only in buildings of Type V-B construction under the IBC, buildings constructed under the IRC; and for Type III-B construction under the IBC where combustibile building elements are allowed.

**6.4** Columns are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

**7.0 SUPPORTING EVIDENCE**

**7.1** Reports of tests in accordance with ASTM D5456.

Data in accordance with the ICC-ES Acceptance Criteria for Structural Wood-Based Products AC47 – June 2017 for Advanced Engineered Lumber.

**7.2** Engineering analysis in accordance with the 2018 ANSI/AWC National Design Specification (NDS) for Wood Construction.

**8.0 IDENTIFICATION**

Columns are identified with the manufacturer’s name (Woodtone), address and telephone number, the product name (RealPost, RealPost Laminated, or AbsolutePost), the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-1102).



**9.0 OTHER CODES**

This section is not applicable.

**10.0 CODE COMPLIANCE RESEARCH REPORT USE**

**10.1** Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

**10.2** Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

**10.3** Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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**TABLE 1 - PROPERTIES EVALUATED**

PROPERTY	2021 IBC SECTION <sup>1</sup>	2021 IRC SECTION <sup>1</sup>
Compression parallel to grain	2303.1.10	R502.1.5, R602.1.5, R802.1.4

<sup>1</sup> Section numbers may be different for earlier versions of the international codes.

**TABLE 2 – COLUMN CENTRICAL AXIAL ALLOWABLE LOAD (LBS), NORMAL DURATION (100%)<sup>1, 2, 3</sup>**

Length (ft)	Moisture Content 12%						
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4
4	18016	38079	52721	19509	42493	54627	6075
6	11228	34507	48277	11719	38168	49692	4080
8	6744	28955	41740	6980	31315	42164	2738
10	4409	21956	32766	4553	23249	32351	1931
12	3092	16249	24652	3190	17057	24071	1427
14	2284	12283	18760	2355	12849	18235	n/a
16	n/a	9550	14629	n/a	9972	14191	n/a
18	n/a	7615	11688	n/a	7945	11323	n/a
20	n/a	6206	9534	n/a	6471	9230	n/a
22	n/a	5150	7919	n/a	5369	7663	n/a
24	n/a	4341	6678	n/a	4524	6460	n/a

Length (ft)	Moisture Content 15%						
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4
4	16691	36209	50051	18247	40280	52143	6075
6	10976	33130	46183	11510	36581	47824	4080
8	6692	28591	40850	6935	30910	41583	2738
10	4392	22387	33133	4538	23609	32890	1931
12	3085	16823	25406	3184	17527	24841	1427
14	2280	12795	19487	2352	13267	18935	n/a
16	n/a	9976	15253	n/a	10320	14778	n/a
18	n/a	7968	12209	n/a	8233	11810	n/a
20	n/a	6500	9971	n/a	6710	9637	n/a
22	n/a	5398	8287	n/a	5570	8005	n/a
24	n/a	4552	6992	n/a	4695	6752	n/a





TABLE 2 - CONTINUED<sup>1, 2, 3</sup>

Length (ft)	Moisture Content 19%								
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)		
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4		
4	14912	31577	44442	16234	34745	48919	6075		
6	10544	29177	41360	11089	31965	45362	4080		
8	6603	25956	37451	6848	28054	40639	2738		
10	4363	21253	31684	4509	22490	33723	1931		
12	3072	16398	25074	3171	17116	26259	1427		
14	2274	12614	19512	2346	13088	20283	n/a		
16	n/a	9885	15374	n/a	10230	15926	n/a		
18	n/a	7917	12348	n/a	8182	12768	n/a		
20	n/a	6469	10106	n/a	6679	10439	n/a		
22	n/a	5378	8410	n/a	5550	8682	n/a		
24	n/a	4538	7102	n/a	4682	7328	n/a		

<sup>1</sup> The cross-sectional areas for the RealPost and AbsolutePost columns are as follows: 4 x 4 = 11.79 in<sup>2</sup>; 6 x 6 = 23.00 in<sup>2</sup>; 8 x 8 = 23.94 in<sup>2</sup>. The cross-sectional area for the 4 x 4 RealPost Laminated column is 10.68 in<sup>2</sup>.

<sup>2</sup> Horizontal loading is not permitted

<sup>3</sup> Allowable loads assume untreated application and normal temperature service conditions where the moisture content in use will be a maximum of 19%, with factors being 1.00. For other conditions see the NDS.

<sup>4</sup> No increases are permitted for RealPost or AbsolutePost through the use of other load duration factors.

TABLE 3 – COLUMN ECCENTRIC AXIAL ALLOWABLE LOAD (LBS), NORMAL DURATION (100%)<sup>1, 2, 3</sup>

Length (ft)	Moisture Content 12%								
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)		
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4		
4	9062	18617	26272	9264	19314	25337	3693		
6	6696	16458	24394	6804	17012	23507	2753		
8	4767	13928	22218	4850	14332	21344	2018		
10	3485	11364	19773	3553	11669	18921	1511		
12	2637	9194	17182	2693	9448	16382	1164		
14	2057	7504	14704	2103	7720	14017	n/a		
16	n/a	6201	12564	n/a	6389	11985	n/a		
18	n/a	5193	10788	n/a	5356	10301	n/a		
20	n/a	4405	9321	n/a	4546	8907	n/a		
22	n/a	3778	7794	n/a	3902	7499	n/a		
24	n/a	3271	6622	n/a	3382	6375	n/a		

TABLE 3 - CONTINUED<sup>1, 2, 3</sup>





Length (ft)	Moisture Content 15%								
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)		
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4		
4	8814	18836	26462	9062	19469	25651	3693		
6	6628	16782	24675	6753	17270	23875	2753		
8	4749	14364	22621	4836	14691	21792	2018		
10	3479	11831	20283	3547	12050	19464	1511		
12	2634	9614	17769	2691	9786	16972	1164		
14	2055	7860	15298	2101	8008	14586	n/a		
16	n/a	6501	13120	n/a	6630	12500	n/a		
18	n/a	5447	11283	n/a	5561	10757	n/a		
20	n/a	4621	9757	n/a	4722	9307	n/a		
22	n/a	3964	8179	n/a	4053	7850	n/a		
24	n/a	3433	6949	n/a	3514	6673	n/a		

Length (ft)	Moisture Content 19%								
	RealPost <sup>4</sup> (SPF)			AbsolutePost <sup>4</sup> (Western Red Cedar)			RealPost Laminated (SPF)		
	4 x 4	6 x 6	8 x 8	4 x 4	6 x 6	8 x 8	4 x 4		
4	8426	17771	25319	8684	18404	26281	3693		
6	6504	16000	23723	6642	16506	24582	2753		
8	4718	13906	21939	4807	14270	22651	2018		
10	3467	11638	19894	3537	11877	20458	1511		
12	2629	9534	17652	2685	9713	18068	1164		
14	2052	7821	15359	2098	7971	15668	n/a		
16	n/a	6480	13251	n/a	6610	13499	n/a		
18	n/a	5434	11429	n/a	5549	11651	n/a		
20	n/a	4613	9902	n/a	4713	10096	n/a		
22	n/a	3958	8336	n/a	4047	8547	n/a		
24	n/a	3429	7082	n/a	3509	7265	n/a		

<sup>1</sup> The cross-sectional areas for the RealPost and AbsolutePost columns are as follows: 4 x 4 = 11.79 in<sup>2</sup>; 6 x 6 = 23.00 in<sup>2</sup>; 8 x 8 = 23.94 in<sup>2</sup>. The cross-sectional area for the 4 x 4 RealPost Laminated column is 10.68 in<sup>2</sup>.

<sup>2</sup> Horizontal loading is not permitted. End loads are limited to a max. eccentricity of 0.60 in. for 4 x 4 columns, 1.06 in. for 6 x 6 column, and 1.49 in. for 8 x 8 column.

<sup>3</sup> Allowable loads assume untreated application and normal temperature service conditions where the moisture content in use will be a maximum of 19%, with factors being 1.00. For other conditions see the NDS.

<sup>4</sup> No increases are permitted for RealPost or AbsolutePost through the use of other load duration factors.

