Explanation of TruEx® and DURATION® "Fire Ratings"

Smoke Developed: Class A (< 450)

Flame Spread: Class B (< 35)

TruExterior Siding & Trim

SIDING PRODUCT DATA SHEET

	TEST METHOD	RESULTS
1. CERTIFICATES AND LISTINGS		
a. Pre-consumer Recycled Content	SCS Global Certification	Minimum 70%
b. Cal Fire (WUI)	CA SFM 12-7A-1	Listing No. 8140-2134:0105
c. Progressive Engineering	Acceptance Criteria 389	PER-13069
d. Cradle to Cradle	C2C Certified™ Product Standard	Bronze
e. Texas Department of Insurance	Thermal and moisture	EC-92
f. ICC-ES	Thermal and moisture	ESR-3597
g. FL Building Code		FL17285
2. PROPERTIES		
a. Density	ASTM C 1185	40-50 lbs/ft³
b. Flexural Strength	ASTM C 1185	> 1600 psi
c. Coefficent of Linear Expansion	ASTM D 6341	< 1.40 E-05 in./in./°f
d. Impact Resistance	ASTM D 6110	> 50 in.
3. PERFORMANCE		
a. Fungi Rot	AWPA E10	Brown Rot - Negligible Loss White Rot - Negligible Loss
b. Termite Resistance	AWPA E1	> 9.0 (10 being best)
c. Water Absorption	ASTM D 570	< 1.5%
d. Flame Spread	ASTM E 84	< 35
e. Smoke Developed	ASTM E 84	< 450

ASTM E 84

Standard test method for surface burning characteristics of of building materials.

The flame spread Index and Smoke Developed Index values obtained by the ASTM E 84 test are used by code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 *Life Safety Code*

1. 2006 International Building Code

a. Section 803 Wall and Ceiling Finishes, Paragraph 803.1 General states, "Interior wall and ceiling finishes shall be classified in accordance with ASTM E- 84.Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

i. Class A: Flame Spread 0-25; smoke-developed 0-450

ii. Class B: Flame Spread 26-75; smoke-developed 0-450

iii. Class C: Flame Spread 76-200; smoke-developed 0-450