



Endura-Stone™ Columns | Pass Flame Spread and Smoke Density Test

OVERVIEW

Pacific Columns Endura-Stone™ Columns now pass the ASTM E, 84-01, “Standard Test Method for Surface Burning Characteristics of Building Materials” (NFPA 255, ANSI/UL 723 and UBC 8-1).

FEATURES & BENEFITS

Endura-Stone™ Columns now have a Flame Spread Index (FSI): of 15. This index puts the Endura-Stone™ Column in a Class I Flame-Spread classification under the 1997 uniform fire code. This is an industry first for FRP columns.

Endura-Stone™ Columns also have a Smoke Developed Index (SDI) of 335. This index is well below the allowable SDI index of 450. This is also an industry first for FRP Columns.

Industry standard FRP columns have a typical Flame Spread Index (FSI) of 70-85 and a Smoke Developed Index (SDI) of 900-1025.

APPLICATIONS

Endura-Stone™ Columns now pass the ASTM E, 84-01 test for interior applications in markets where the building code officials have started to enforce Section 318 of the 1995 CABO One and Two Family Dwelling Code or Section 803.3.2 of the 1996 BOCA National Building Code.

SPECIFICATIONS

Test Data

UNROUNDED FSI	15.5
UNROUNDED SDI	335.8
FS*TIME AREA (Ft*Min)	30.2
SMOKE AREA (%*Min)	273.2

OBSERVATIONS DURING TEST

IGNITION TIME (Min:Sec)	3:31
MAXIMUM FLAME FRONT ADVANCE (Ft.)	7.0
TIME TO MAXIMUM ADVANCE (Min:Sec)	10:00
MAXIMUM TEMP. AT EXPOSED TC(*F):	563
TIME TO MAXIMUM TEMP. (Min:Sec)	9:57
TOTAL FUEL BURNED (Cu.Ft.)	52.4
DRIPPING (Min:Sec)	None
FLAMING ON FLOOR (Min:Sec)	8:15
AFTERFLAME TOP (Min:Sec)	3:00+
AFTERFLAME FLOOR (Min:Sec)	3:00+

Full test results available on request.