

EXPANSION JOINT TECHNICAL DATA

1-2-3 Hour Rated Seismic Pre-Compressed Vertical Foam System

**RECESSED APPLICATION (FES1,
FES2, FES3)**



1-2-3-HOUR RATED PRECOMPRESSED FOAM SEAL

Nystrom **FES 1-2-3** is a watertight, fire-rated joint system designed for vertical wall applications.

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENTS
Impregnation	Not Applicable	Proprietary modified acrylic
Base Foam	Not Applicable	Open Cell Polyurethane Foam
Air Permeability	ASTM E283 @ 75 Pa	Maximum 0.02 liter/second/sq meter
Fire Protection Rating	UL 2079	2 hours
Movement Capability		+/-50% (Total 100%) of nominal material size
R-Value	ASTM C518	2.8 per inch depth at nominal joint size compression
STC Rating	ASTM E90	56in STC 63 Wall
OITC Rating	ASTM E90	47 in OITC 48 Wall
Water Penetration	ASTM E331 @ 5000 Pa	No water penetration
Wind loading	ASTM E330 @ 4954 Pa	No deflection
VOC Emissions	CDPH-1.2-2017	Pass
Temperature Service Range	ASTM C711	-40 to 190 °F (-40 to 88 °C)

SEALANT FACE

The Nystrom **FES 1-2-3** silicone sealant face provides a watertight seal for vertical wall applications. Profiled sealant bellows face enables cycling through movement range.

PHYSICAL PROPERTIES	TEST METHODS	REQUIREMENTS
Abrasion Resistance	ASTM D4060	Less than 1% weight loss
Fuel Resistance	ASTM C719/C1135	Pass