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TUFF-R COMMERCIAL INSULATION

PRODUCT DESCRIPTION

TUFF-R Commercial polyisocyanurate consists of a rigid polyisocyanurate closed-cell foam core reinforced by glass fiber. TUFF-R Commercial insulation boards have reflective/radiant barrier-quality aluminum foil facers on both sides. The core is a closed-cell structure, providing superior thermal efficiency. TUFF-R commercial insulation also gives increased thermal value when used in reflective air-space applications.

BASIC USE

TUFF-R Commercial insulation is for use behind a minimum 1/2" gypsum board or equivalent thermal barrier interior finish.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C-203
- ASTM C-209
- ASTM C-236
- ASTM C-518
- ASTM C-1289
- ASTM C-1622
- ASTM D-1622
- ASTM D-1621
- ASTM E-84
- ASTM E-96

CODE COMPLIANCES

TUFF-R Commercial insulation complies with the following codes:

- Federal Specification HH-I-1972/1, Class 2 "Insulation Board, Thermal, Polyurethane or Polyisocyanurate, faced with aluminum foil on both sides of the foam." Class 2 identifies Glass Fiber Reinforced Polyisocyanurate Foam
- Factory Mutual - TUFF-R Commercial insulation core foam has been tested (with foil facings removed) for surface burning characteristics according to ASTM E84
- ICBO - ICBO ES ER 5009
- SBCCI - PST & ESI ER 9605C
- ICC - Meets IBC/IRC requirements for foam plastic insulation
- WH - Warnock Hersey
- BOCA - BOCA ES RR 95-22

FIRE PROTECTION

In any exposed application, multi-laminate facers may become involved in fires. TUFF-R insulation products must not be left exposed and must not be installed behind minimum 1/2" gypsum board or its equivalent.

AVAILABILITY & PACKAGING

- 3/4" x 4' x 8' - 30 pcs. per bundle
- 1" x 4' x 8' - 44 pcs. per bundle
- 1 1/4" x 4' x 8' - 34 pcs. per bundle
- 1 1/2" x 4' x 8' - 30 pcs. per bundle
- 2" x 4' x 8' - 24 pcs. per bundle

The sizes listed here represent the current inventory. Other sizes are available by request. This list subject to change without notice.

Tuff-R C						
Nominal Board Thickness (in.)	1.0	1.5	1.55	1.75	1.875	2.0
R-Value	6.5	9.8	10.0	11.4	12.0	13.0

Physical Properties of TUFF-R Commercial Insulation

Property and Test	Value
Nominal core foam density, ASTM D 1622, pcf	2
Compressive strength, core foam, ASTM D 1621, psi min.	25
Flame spread ¹ core foam, ASTM E 84, max.	25
Dimensional stability, 158°F / 97% RH, % linear change	< 2.0
Conditioned R-Value, product, ASTM C 518	See Table 1
Water vapor permeance, ASTM E96 (desiccant method), % perms	< .03
Water absorption, ASTM C209, %	< 1.0
Operating temperature range, °F	-50 to +190

MASONRY