

Series 8400TL Architectural Windows

An Opening to the
World that Redefines
Window Versatility



Converse Hall, James Madison University, Harrisonburg, VA
Architect: Moseley Harris & McClintock, Harrisonburg, VA
Glazing Contractor: Glass & Metals Inc., Harrisonburg, VA

Today, energy concerns are critical and the 8400TL series provides the flexible balance between energy efficiency, aesthetics and performance. As LEED certifications gain popularity, consider the 8400TL as the window of choice to achieve potential points in the Indoor Environmental Quality category. Whether your project is new construction, building renovation, or adaptive reuse of a historic gem, the Kawneer 8400TL series fits the opening.

Here is a thermal window you can have your way, be it fixed, offset fixed, single hung, double hung, or horizontal sliding. You may choose a frame option with or without true, applied or between-the-glass muntins as well as optional insect screens. All are available with tested and proven tough finishes and heavy duty hardware.

 **KAWNEER**
AN ALCOA COMPANY

CLASS and GRADE	Heavy Commercial Grade H-HC70 / H-AW70					
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S. 2 / A440-05					
FRAME DEPTH	4" Overall Frame Depth					
TYPICAL WALL THICKNESS	.070 Nominal					
TYPICAL MAXIMUM SIZE	60" x 99"					
TYPICAL MINIMUM SIZE	20" x 33"					
TYPICAL CONFIGURATIONS						
STANDARD INFILL OPTIONS	1/4", 3/4" with Glazed-in Muntin Grid, and 1"					
STANDARD HARDWARE	Heavy Duty Balances Cast White Bronze Sweep Locks					
OPTIONAL HARDWARE	Aluminum Auto Lock					
OTHER OPTIONS	Exterior Glazed-in Muntin Grids Perimeters and Sills Exterior Pannings and Interior Trims True Intermediate Mullions Structural Mullions Vertically or Horizontally Stacked Sill for 10 PSF or 15 PSF Water Performance Insect Screens					
PERFORMANCE	Air Infiltration Cfm/ft ²	Water Resistance PSF	Design Load PSF	Thermal Transmittance "U" Value	Condensation Resistance CRF	Sound Transmittance STC
	.30 @ 6.24 psf	10 / 15	70	.70	49	34

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2009

Note: Thermal and STC values are based upon 1" clear insulating glass.

STYROFOAM™ BRAND SPRAY POLYURETHANE FOAM INSULATION (RS SERIES)



PRODUCT NAME

STYROFOAM™ Brand Spray Polyurethane Foam Insulation (RS Series)

MANUFACTURER

The Dow Chemical Company
Dow Building Solutions
200 Larkin
Midland, MI 48674
866-583-BLUE (2583)
Fax 989-832-1465

www.dowbuildingsolutions.com

PRODUCT DESCRIPTION

STYROFOAM™ Brand Spray Polyurethane Foam (RS Series) is a two-component, spray-applied polyurethane foam that creates a seamless, monolithic barrier against water vapor and air on the interior of stud walls. This closed-cell, 2-pcf spray foam is chlorofluorocarbon (CFC) free and successfully incorporates a zero ozone-depleting blowing agent.

STYROFOAM™ Brand SPF (RS Series) is available in three formulas:

RS 2030

30°F – 70°F Ambient Processing
30°F – 60°F Substrate Processing

RS 2045

45°F – 95°F Ambient Processing
45°F – 100°F Substrate Processing

RS 2060

60°F – 100°F Ambient Processing
60°F – 120°F Substrate Processing

PROPERTIES

STYROFOAM™ Brand SPF Insulation is created from a unique polyol technology, which offers improved foam yield and wide processing latitude. STYROFOAM™ Brand SPF Insulation expands during installation to fill cavities, cracks and crevices, helping prevent uncontrolled air leakage and helping maintain consistent, comfortable indoor temperatures. The foam serves as both an insulation and air sealant for a wide range of new and retrofit applications throughout the building envelope. In addition, STYROFOAM™ Brand SPF Insulation resists moisture and provides structural reinforcement for improved racking strength. STYROFOAM™ Brand SPF Insulation provides structural enhancement only. Use in

conjunction with approved structural components and framing members consistent with local building code requirements.

STYROFOAM™ Brand SPF Insulation exhibits typical physical properties indicated in Table 1 when tested as represented.

SIZES

STYROFOAM™ Brand Spray Polyurethane Foam (RS Series) is sold in sets of 55 gallon drums (one A isocyanate and one B polyol blend). Contact your Dow sales representative with questions.

TECHNICAL DATA

APPLICABLE STANDARDS

Applicable test methods include:

- ASTM C1029 – Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation
- ASTM C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- ASTM D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics
- ASTM D6226 – Standard Test Method for Open Cell Content of Rigid Cellular Plastics

CODE COMPLIANCES

STYROFOAM™ Brand SPF Insulation complies with the following codes:

- Conforms to IBC/IRC requirements for foam plastic insulation
- Underwriters Laboratories, Inc. see UL 723
- Southwest Research Institute (SWRI), Classified Class A (ASTM E84)
- ICC ES AC377 Appendix X modified NFPA 286: Being exposed in attics and ceilings

FIRE PROTECTION

STYROFOAM™ Brand Spray Polyurethane Foam is combustible and may constitute a fire hazard. Do not expose foam to flame or temperatures above 240°F.

SAFETY AND CONDITIONS OF USE

- Read the instructions and Material Safety Data Sheets carefully before use. The MSDSs are available at www.dowbuildingsolutions.com/na.

Visit www.spraypolyurethane.com for information covering a wide range of topics, including an overview of SPF health and safety guidelines, suggested personal protective equipment (PPE), typical first-aid treatment, and regulations and information about “green” marketing.

- STYROFOAM™ Brand Spray Polyurethane Foam Insulation contains isocyanate, hydrofluorocarbon blowing agent and polyol. Do not breathe vapor or spray. Use only with a NIOSH-approved supplied air respirator (SAR) in accordance with your company’s respiratory protection program. Supplied air respirator or an approved air-purifying respirator equipped with an organic vapor sorbent and a P100 particulate filter is required to maintain exposure levels below ACGIH, OSHA, WEEL or other applicable limits. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure, air-supplying respirator (air line or self-contained breathing apparatus).
- Isocyanate is irritating to the eyes, skin and respiratory system, and may cause sensitization by inhalation or skin contact. Sensitization, or the development of asthma, can lead to permanent respiratory problems.
- STYROFOAM™ Brand SPF will adhere to most surfaces and skin. Do not get foam on skin. When spraying polyurethane foam, wear MDI-resistant chemical gloves (e.g., nitrile) or fabric gloves coated in nitrile, neoprene, butyl or PVC. Spray applicators should wear chemically resistant coveralls or full body suits with hoods and MDI-resistant fitted boots or booties. Professional judgment is necessary to determine the appropriate PPE necessary for secondary activities such as cleaning and trimming of the cured foam. Cured foam must be mechanically removed or allowed to wear off in time.
- The contents are under pressure.
- STYROFOAM™ Brand SPF should be installed by a trained SPF applicator.

