

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)BUILDING UNITS
(BLBT)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 62950 (Party Site)
U S COOLER
(358207-001) 325 PAYSON AVE
QUINCY IL 62301Listee/Classified Co.: 62950 (Party Site)
SAME AS APPLICANT
(358207-001)

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://www.ul.com/global/eng/pages/corporate/contactus>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney
Director
North American Certification Program

LOCATION

(358207-001) 62950 (Party Site)
U S COOLER
325 PAYSON AVE
QUINCY IL 62301

Factory ID:

UL Contracting Party for above site is: UL LLC

Classification Marking Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

CLASSIFICATION MARKCOMPOSITION AND ELEMENT:

The Classification Marking shall consist of the following and shall appear on the product.

BUILDING UNITS
SURFACE BURNING CHARACTERISTICS +
<9RA0>

- + - The Classification Marking includes the flame spread and smoke developed value applicable to the product.

MARKING:

The following symbol must be located adjacent to (left side of text), and as part of, the regular Classification Marking.



The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

PROCUREMENT:

The manufacturer may reproduce the mark or obtain it from a UL authorized supplier.

CERTIFICATE:

As an alternative to the application of the complete UL Classification Marking to the product, a certificate may be used as the means of showing the product is manufactured under UL's Classification and Follow-Up Services. The development of this Certificate is to be coordinated with UL's Follow-Up Services Department. Authorization for the use of such Certificates, and the specific Certificate to be utilized, will be given in the descriptive text of the applicable Follow-Up Services Procedures. Refer to Classification Marking Data Page 2 for an example of an appropriate certificate with the required information.

THIS PAGE IS TO BE REVISED BY FUS DEPARTMENT ONLY

Classification Marking Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)



an independent, not-for-profit organization testing for public safety

Mfr's. Ref. No. R-
Control No. _____

(Company name and address) _____ is qualified under the Classification and Follow-Up Service of Underwriters Laboratories Inc. to furnish building units, Classified as to Surface Burning Characteristics. This manufacturer is therefore authorized to issue this Certificate for the bulk shipment of material described below as it's representation that such material is manufactured in compliance with the requirements established by Underwriters Laboratories Inc. for this class of product. This Certificate does not indicate proper application or installation of the units and does not apply to other material which may be used at the location specified.

Trade Name or _____ No. of
Catalog No. _____ Units _____

CLASSIFICATION:

(COMPLETE UL CLASSIFICATION
MARKING TEXT AS DESCRIBED
UNDER "COMPOSITION" INSTRUCTIONS
ON PAGE 1 OF THIS DATA PAGE
TO BE PRINTED HERE)

Date of Issuance of Certificate _____

Date of Material Supplied _____

Carriers: _____ City and
State _____

Description of _____ Bill of

Container: _____ Lading No. _____

Shipped to: _____ City and
State _____

Signature of Authorized Person: _____

SPECIAL INSTRUCTIONS

FIELD REPRESENTATIVE:

At each regular inspection, the field representative shall accomplish the following:

1. Review the manufacturer's records pertaining to the product described herein, to ascertain that all products to which Classification Marks were attached since the previous inspection complied with the Procedure specifications.
2. Review the manufacturing process to determine that it is as described.
3. Determine that the type of material and the thickness of the metal skin complies with the Procedure specifications.
4. Determine that the materials used for the core material are obtained from the specified manufacturer under the designations specified.
5. Determine that the adhesive is obtained from the specified manufacturer under the designation specified. Check receiving records in which bulk shipments are involved.
6. Determine that the gasket material used is the one specified.
7. Determine that the thickness of the finished product is in compliance with the Procedure specifications.

SAMPLES FOR REGULAR INSPECTION

Select three samples of each of the facing materials, five samples of each of the finished units, for use in conduction the test necessary to determine compliance with the specifications set forth in this description. All samples should be selected from material being produced during the inspection, or from Labeled current production. These samples shall be considered the sample lot.

SAMPLES TO NORTHBROOK OFFICE

NONE

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Applicant whose last name begins with the letters "A" - "L" shall be selected during the first or second quarter of each year while those with the letters "M" - "Z" shall be selected during the third or fourth quarter of each year.

THICKNESS (METAL SKINS)

Samples

At least three (3) different panel skins.

Apparatus

A caliper or micrometer accurate to 0.001 inch.

Method

Each panel skin is to be measured for thickness at three random points along the perimeter. The average of the three thicknesses is to agree with that specified in the individual Procedure sections.

THICKNESS (FINISHED PRODUCT)

Samples

Five samples of the finished product of any standard length and width.

Apparatus

An instrument for measuring thickness, accurate to 1/16 in.

Method

Each sample shall be measured at five symmetrically spaced locations. The average of the five readings for each sample shall be considered as the thickness.

PROCEDURE IN CASE OF FAILURE

If any specimen from the samples for regular inspection shall fail, the lot shall be rejected, except that if no more than one specimen fails, the manufacturer may elect to have the Field Representative resample at random from the entire lot submitted for Labeling by selecting a second sample lot, the same as the first, and conducting upon it tests for the failing characteristics. If all tests upon the second sample are acceptable, the entire lot, as submitted for Labeling, is acceptable.

If two specimens from the original sample lot, or one from the second sample lot, fails, the entire lot submitted for Labeling is rejected and labels are removed. The manufacturer may then make a careful review of the entire lot and resubmit any portion for retest and relabeling.

SPECIAL TESTING

If full-scale Fire Tests, Chemical Identification, or Quantitative Tests are required to ascertain compliance of the products covered by this Procedure, or to determine uniformity of components not under the control of the manufacturer, such work shall be chargeable to the manufacturer at the current billing rates.

MANUFACTURER'S RESPONSIBILITIES:

The manufacturer's responsibilities include, but are not limited to:

Restrict the use of markings that reference UL (either directly or by use of the name, an abbreviation of it, or the UL Classification Mark, or indirectly by means of agreed-upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Follow-Up Service Procedure description. Use of such markings is further limited by the agreements that have been executed by the subscriber and UL.

Conduct the Factory Tests detailed in the Appendix.

Determine that the test equipment is functioning properly and have it calibrated annually, or whenever it has been subject to abuse (such as being dropped or struck with an object) or its accuracy is questionable. Calibration may be by the manufacturer or an outside laboratory. In either case, it shall be by comparison with a standard that is traceable to the applicable U.S. or foreign National Standard. Certification of calibration shall be maintained by the manufacturer until the next succeeding certification, and shall be readily available for review by the UL Field Representative.

Maintain records of test performance. The records shall include the name or designation of the product or component tested, the date of production, the tests performed, number of units tested, test results and action taken on rejections. Specific information is required when recording test results. Records for test performance shall be retained for six (6) months and shall be readily available for review by the UL Field Representative.

Exception: Records of test results need not be maintained for 100 percent Production-Line Tests.

THIS PAGE REPLACE PAGE A4.

DESCRIPTION

PRODUCT COVERED:

Insulated panels consisting of metal skins adhered to foamed plastic core material.

FACTORY LOCATION AND IDENTIFICATION:

<u>Corp. ID</u>	<u>Factory Location</u>	<u>Identification</u>
358207-001	Quincy, IL	"None"

MANUFACTURING PROCESS:

The core material is cut to size. The edges are profiled and notches are cut as required to receive the locking devices. The foam is then placed in a roller coater and adhesive applied to both sides. The adhesive coated foam then passes through a water mist. The skin metal is cut to size, formed and the gasket material is added. The foam is placed on the bottom face of the metal skin. The cam locks are then added. These cam lock may be insulated with Dow Trymer foamed plastic. Then the top facer is applied.

After the panel is assembled, it is brought to a press where several panels are placed prior to pressing.

COMPONENT PARTS:

ADHESIVE

Supplier - Swift Products

Identification - Everlock 22006, Swift 2U386, Swift 2U368

or

Supplier - Rohm & Haas

Identification - Mor-Ad M640

or

Supplier - Daubert Chemical Co.

Identification - U8504-06

Or

Supplier - H. B. Fuller

Identification - HL9672LT

Or

Supplier - Kleiberit Adhesives

Identification - 706 Series

Or

Supplier - H. B. Fuller

Identification - RHM1002

Or

Supplier - Dauert Chemical Company

Identification - Daubond 1109-26-6

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GASKET MATERIAL

Gasket Manufacturer - Jeans Extrusions or Holms Industries

Identification - J-52-5560-001 or 257-3501

ALTERNATE GASKET MATERIAL:

Manufacturer - Jeans Extrusions

Identification - US Cooler Pt#9261 White, Jeans # 52-0444 is extruded on Cpd #62-222-7 (605FR-80 cpd plus Colorant #987-666) or US Cooler Pt# 9262 Black, Jeans #52-0506 is extruded on Cpd #62-080 (605FR-80 cpd plus Colorant #782-984) or US Cooler Pt# 0138 Gray, Jeans #52-5560 is extruded on Cpd #62-136-9 (605FR-80 cpd plus Colorant #987-662)

METAL FACING MATERIALS

The metal faces are to be painted or unpainted steel or aluminum coated steel (galvalume), 26 ga., minimum 0.017 in.

EXTRUDXED CORE MATERIAL

The extruded polystyrene core material shall be obtained from the supplier indicated, under the designation indicated and is Classified by Underwriters Laboratories Inc. with the Surface Burning Characteristics indicated.

Manufacturer - Owen Corning Specialties

Identification - Shall be nominal 2.5 pcf at a 4 in.

Marking -



FOAMED PLASTIC
SURFACE BURNING CHARACTERISTICS

	3/4 In. Thk Max +	1 In. Thk Max ++	4 In. Thk Max +++
Flame spread	5#	5##	5###
Smoke developed	45#	145##	175###

- + Installed in a thickness or stored in an effective thickness not in excess of 3/4 in.; for a density of from 1.30 to 2.85 pcf.
- ++ Installed in a thickness or stored in an effective thickness not in excess of 1 in.; for a density of from 1.30 to 3.60 pcf.
- +++ Installed in a thickness or stored in an effective thickness not in excess of 4 in.; for a density of from 1.30 to 3.60 pcf.
- # Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 10 and smoke developed classification of 350.

Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 25 and smoke developed classification of over 500.

Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 75-100, smoke developed classification of over 500.

ALTERNATE EXTRUDED CORE MATERIAL

The extruded polystyrene core material shall be obtained from the supplier indicated, under the designation indicated and is Classified by Underwriters Laboratories Inc. with the Surface Burning Characteristics indicated.

Manufacturer - **DuPont de Nemours, Inc**

Identification - Shall be nominal 2.5 pcf at a 4 in.

Marking -



FOAMED PLASTIC
SURFACE BURNING CHARACTERISTICS

4.0 In. Max Thickness
4.0 lb/ft³ Max Density

Flame spread 5#
Smoke developed 165#

#Flame spread and smoke developed recorded while material remained in original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated Flame spread classification of 90 and smoke developed classification of over 500

File R21217

Vol. 1

Sec. 1

Page 3-1

Issued: 2003-03-24

Revised: 2021-09-23

This Page Replaces Pages 3-1 to 3A.

***ALTERNATE EXTRUDED CORE MATERIAL**

The extruded polystyrene core material shall be obtained from the supplier indicated, under the designation indicated and is Classified by Underwriters Laboratories Inc. with the Surface Burning Characteristics indicated.

Manufacturer - DuPont de Nemours, Inc

Identification - Shall be nominal 4.0 pcf at a 4 in.

Marking -



**FOAMED PLASTIC
SURFACE BURNING CHARACTERISTICS**

4.0 In. Max Thickness
4.0 lb/ft³ Max Density

Flame spread	15#
Smoke developed	165#

#Flame spread and smoke developed recorded while material remained in original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated Flame spread classification of 125 and smoke developed classification of over 500

BEADBOARD CORE MATERIAL

The beadboard polystyrene core material shall be obtained from the supplier indicated, under the designation indicated and is Classified by Underwriters Laboratories Inc. with the Surface Burning Characteristics indicated.

Manufacturer - Diversifoam Products Inc.

Identification - Shall be nominal 1.25 pcf at 4 in.

Marking -



	6 In. Thick Maximum+
Flame spread	20#
Smoke developed	300#

+ Installed in a thickness, or stored in an effective thickness, as indicated; for a density of 1.00-2.00 lbs./ft.

Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 140 and smoke developed classification of over 500.

Manufacturer - (Any AFM Corporation plant)

Identification - Shall be nominal 1.25 pcf at 4 in.

Marking -



	1/2 - 5 In. Thick+
Flame spread	20#
Smoke developed	150-300#

+ Installed in a thickness, or stored in an effective thickness, as indicated; for a density of 1.0 to 2.0 lb/ft³.

Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread index of 180 and smoke developed index of over 500.

FINISHED PRODUCT:

Shall not exceed 4-1/8 in. thickness

MARKING:

Each panel conforming to the specifications detailed above, that is produced under the Follow-Up Program, is eligible to bear the Classification Marking with the following:

1. Classified company or "R21217."
2. Additional marking:

FOR EXTRUDED STYRENE PANELS: (for Owens Corning foam):

	Core Material	4 in. Thick Painted or Unpainted Steel Finished Panel
Flame Spread	5#	70
Smoke Developed	175#	Over 500

- Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread 75-100 and smoke developed of over 500.

FOR EXTRUDED STYRENE PANELS: (for DuPont de Nemours, Inc. foam):

	Core Material	4 in. Thick Painted or Unpainted Steel Finished Panel
Flame Spread	5#	70
Smoke Developed	165#	Over 500

- Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread 90 and smoke developed of over 500.

FOR EXTRUDED STYRENE PANELS: (for DuPont de Nemours, Inc. foam):

	Core Material	4 in. Thick Painted or Unpainted Steel Finished Panel
Flame Spread	15#	45
Smoke Developed	165#	Over 500

- Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread 125 and smoke developed of over 500.

FOR BEADBOARD STYRENE PANELS: (for Diversifoam Products and AFM Corp. Foam):

	Core Material	4 in. Thick Painted or Unpainted Steel Finished Panel
Flame Spread	20#	90
Smoke Developed	300#	Over 500

- Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread 180 and smoke developed of over 500.