

BUILDING MATERIALS DIRECTORY 2012

This Directory contains all Listings and Classifications in effect as of January 3, 2012 for product categories covered.

UL Online Certifications Directory Listings and Classifications are updated daily. To confirm the current status of any UL record, consult UL's Online Certifications Directory at [www.ul.com / database](http://www.ul.com/database).

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BUILDING MATERIALS DIRECTORY

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Introduction

This Directory contains the names of companies authorized to use the UL Mark on or in connection with products that have been investigated by UL and found to be in compliance with UL's requirements. These companies, as well as the manufacturers and submitters of the products, have entered into an Agreement with UL to use the UL Mark only on or in connection with products manufactured in compliance with UL's requirements. It should be noted that UL certified products of different makes or model designations are not necessarily equivalent in quality or performance.

The appearance of catalog or model numbers or other specific product designations in this Directory signifies that: (1) representative samples of these products have been submitted to UL and found to comply with the applicable requirements, and that (2) the manufacturer has been authorized to use the appropriate UL Mark on production that continues to comply with UL's requirements and is subject to UL's Follow-Up Service. Since manufacturers are not obligated to apply the UL Mark on all of their production, products that do not bear the UL Mark are not required by UL to comply with UL's requirements. Accordingly, the appearance of a company's name or a specific product designation in this Directory does **not** in itself ensure that products so specified or identified are subject to UL's Follow-Up Service. The manufacturer's products are not subject to UL's Follow-Up Service unless they bear the UL Mark. **Only those products bearing the appropriate UL Mark and the company's name, trade name, trademark or other authorized identification should be considered as being covered by UL's Listing or Classification and Follow-Up Service. The UL Mark provides evidence of listing or labeling, which may be required by installation codes or standards.**

Many of the products bearing the UL Mark incorporate components that bear the UL Recognized Component Mark . The Recognized Component Mark is applicable to components that are incomplete in construction features or limited in performance capabilities. **The Recognized Component Mark does not provide evidence of listing or labeling, which may be required by installation codes or standards.**

This Directory contains Listings and Classifications in effect as of January 3, 2012. Records of Listings and Classifications issued or withdrawn after this date will be found in UL's Listing Information database. In addition, Listings and Classifications issued after the effective date will be found in UL's Online Certifications Directory at www.ul.com/database and will appear in the next annual Directory.

Note: At the back of this Directory is important information about UL services for manufacturers and other clients, Authorities Having Jurisdiction, and consumers.

Installation and Use of Products Bearing the UL Mark

Authorities Having Jurisdiction should be consulted as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, systems, devices and materials.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

Use of this Directory

This Directory includes the following:

- General Guide Information for each product category that includes references to the requirements used for the investigation of the products and the UL Mark to be used on the product;
- Information relating to limitations or special conditions applying to the product;
- Names of companies that are authorized to provide products bearing the UL Mark.

The companies whose names appear in this Directory may not be the manufacturer of the product, but are qualified to provide products that bear the UL Mark.

UL Listings and Classifications are arranged alphabetically in this Directory by product category and alphabetically by company name under each category. The four-letter code (shown in parentheses) following each category title is the product category guide designation.

Under individual product categories, each company is assigned an alphanumeric file number (starting with letters such as AU, BP, E, EX, MH, MP, MQ, R, S or SA). This number may not be required to be marked on the product. The file number can be used to identify a particular company and the associated product category.

To assist in the use of the Directory, an Index of Product Categories, an Index of Companies and a List of Company Identifications are provided (see Table of Contents). The List of Company Identifications contains the trade names or trademarks of companies that have chosen to use such identification in place of or in addition to their company name.

UL's General Guide Information at the beginning of each product category provides important information regarding the scope and limitation of UL's certification of the product and a general description of the UL Marks authorized for products in that category.

This information may include the identification of published standards that have been used to investigate products in that category. There may not be a published standard against which a product can be tested and evaluated to determine its acceptability for the UL Mark. If no applicable standard is available, UL will exercise its judgment in the selection of applicable requirements from standards and other sources and will develop requirements to cover uses and conditions for which specific requirements did not previously exist.

The scope of each UL Standard for Safety and Outline of Investigation can be accessed at <http://ulstandardsinfo.net.ul.com>.

The information in the individual Listing or Classification varies from category to category depending on the needs of the users of the Directory. Certain Listings or Classifications contain specific model or catalog designations, others contain general types of products, and others include the company name only.

For some product categories, UL's Online Certifications Directory may include additional product information that does not appear in this Directory. To obtain additional information for a particular Listing or Classification or information on UL Listed and Classified products and Recognized Components, contact the Customer Experience Center by telephone: +1.877.UL.HELPS (1.877.854.3577) or e-mail at cec.us@us.ul.com.

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Look for the UL Mark

Identification of UL Listed and Classified Products

The symbol  and the name "Underwriters Laboratories Inc." in various forms and abbreviations are registered with the U.S. Patent and Trademark Office, and in numerous other countries. Subject to the terms of UL's Follow-Up Service Agreement, companies are permitted to use the symbol  or other specified forms of UL's name as part of the UL Mark on products that are Listed or Classified and that comply with UL's requirements.

The product name as indicated in the General Guide Information for each product category is generally included as part of the UL Mark, but may be omitted when, in UL's opinion, the use of the name is unnecessary and the UL Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar processes.

A separable UL Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the following four elements: UL's symbol , the word "LISTED" or "CLASSIFIED," the product or category name, and a control number assigned by UL.

The complete UL Mark will appear on the product unless otherwise indicated in the General Guide Information for a specific product category.

When a UL Listed product is of such a size, shape, material or surface texture that, in UL's opinion, it is impossible to apply legibly the complete marking to the product, the complete UL Listing Mark will appear on the smallest unit container in which the product is packaged. In these cases UL may authorize the use of the UL symbol  on the product in addition to the complete UL Mark on the package.

When a UL Classified product is of such a size, shape, material or surface texture that, in UL's opinion, it is impossible to apply legibly the complete marking to the product, the complete UL Classification Mark will appear on the smallest unit container in which the product is packaged. In these cases there shall be no reference to UL on the product.

Refer to the General Guide Information for each product category for additional information on the specific UL Mark for the products in the category.

Identification of UL Listed Products

The UL Listing Mark generally includes the UL symbol or it may include other registered forms as authorized by UL. The UL Listing Mark includes: (1) the UL symbol shown below; (2) the word "LISTED" ; (3) the product identity; and (4) a control number assigned by UL.



Identification of UL Listed Gas-Fired Products

The UL Listing Mark for gas-fired products certified to UL Standards includes: (1) the UL symbol with the words "GAS-FIRED" above the UL symbol as shown below; (2) the word "LISTED" below the UL symbol; (3) the product identity; and (4) a control number assigned by UL.

GAS-FIRED



LISTED

The UL Listing Mark for gas-fired products certified to ANSI Z21 or Z83 Series Standards includes: (1) the UL symbol with the words "GAS-FIRED" above the UL symbol as shown below; (2) the word "LISTED" below the UL symbol; (3) the ANSI/CSA or ANSI/CGA Standard designation; and (4) a control number assigned by UL.

GAS-FIRED



LISTED

[identification of standard]

Identification of UL Listed Environmental and Public Health (EPH) Products

The UL Listing Mark for Environmental and Public Health (EPH) products certified to UL Standards includes: (1) the UL symbol with the letters EPH inside a triangular background as shown below; (2) the word “LISTED” below the UL symbol; (3) the product identity; and (4) a control number assigned by UL.



The UL Listing Mark for Environmental and Public Health (EPH) products certified to standards of other organizations for foreseeable hazards includes: (1) the UL symbol with the letters EPH inside a triangular background as shown below; (2) the word “LISTED” below the UL symbol; (3) the product identity; (4) the standard designation; and (5) a control number assigned by UL.



[identification of standard]

Identification of UL Classified Products

The UL Classification Mark may appear in various forms as authorized by UL. The UL Classification Mark includes: (1) the UL symbol; (2) the word “CLASSIFIED” above the UL symbol; (3) the product identity; (4) a control number assigned by UL; and (5) indication of the extent of UL’s evaluation of the product, e.g. “AS TO [nature of hazard] ONLY” ; rating or classification as specified in the General Guide Information pertaining to the product category; “IN ACCORDANCE WITH [designation and title of standard published by other organization]” ; or “FOR USE WITH [identification of specified product].” A typical Classification Mark is shown below:



AS TO [nature of hazard] ONLY
or
IN ACCORDANCE WITH
[identification of standard]

Identification of UL Classified Environmental and Public Health (EPH) Products

The UL Classification Mark for Environmental and Public Health (EPH) products certified to standards of other organizations for EPH evaluations only includes: (1) the UL symbol with the letters EPH inside a triangular background, as shown below; (2) the word “CLASSIFIED” above the UL symbol; (3) the product identity; (4) the standard designation; and (5) a control number assigned by UL.



[identification of standard]

Additional information regarding the UL Marks for Environmental and Public Health (EPH) can be found at the back of this directory under **Other UL Services** and online at www.ul.com/eph.

Identification of UL Listed Products that are Also Classified in Accordance with International or Regional Standards

The UL Listing Mark and Classification Mark shown above can be combined for products that not only meet the applicable UL requirements but also comply with the requirements of the applicable international or regional standards. For these products the combination UL Listing and Classification Mark is shown below:



**ALSO CLASSIFIED
IN ACCORDANCE WITH
[identification of standard]**

Identification of Products Classified in Accordance with International or Regional Standards Only

UL provides a service for the Classification of products that have been determined to comply with the appropriate requirements of the applicable international or regional standards only. For these products, the Classification Mark may appear in various forms as authorized by UL. A typical form which may be authorized is shown below. When the complete Classification Mark cannot be applied to the product, no reference to UL on the product is permitted.



**[product identity]
IN ACCORDANCE WITH
[identification of standard]**

Products Listed by Report

Certain products are Listed under a special service designated as "Listed by Report." These are usually products or constructions for which there are no generally recognized installation requirements. The description of this type of product or construction and information concerning proper field assembly and/or installation are contained in a Report identified by the reference and date shown by the Listing. Products Listed by Report are eligible to bear a UL Mark, which includes a reference to the Report number and date. Copies of the Report may be obtained upon application to the company whose product is Listed.

Specifying UL Listed and Classified Products

Specifying UL Listed and Classified products up front is one of the best methods used by designers, consultants, insurers and others to help gain jurisdictional acceptance. A typical specification reads: "The [product] must bear the UL Mark." Or, if the specification cannot be that precise, an alternate wording would read: "The [product] must meet the requirements of UL. The UL Mark on the product will be accepted as evidence of compliance."

Products, equipment and materials evaluated by UL in accordance with international or regional standards only are intended for installation and use where the specified standards have been adopted.

Building Materials (AABM)

GENERAL

Building materials include adhesives, coatings, acoustical materials and the like, investigated for surface burning characteristics, such as flame spread and smoke developed during fire exposure. Other building materials include prefabricated buildings, structural building products, gypsum board, fireplaces and chimneys, elevator equipment, and exiting equipment, such as exit signs, exit appliances, and emergency lighting and power equipment.

INVESTIGATION REQUIREMENTS AND STANDARDS

The scope of product sizes and ratings appearing in the general Guide Information for some product categories is intended to indicate the current range of Listed products, however, it is not necessarily indicative of limitations for those Listed products.

The standards used to investigate products are identified in the general Guide Information for each product category. There may not always be a published standard for investigating a product to determine its acceptability for Listing or Classification. If no applicable standard is available, UL will exercise its judgment in the selection of applicable requirements from related standards and other sources to develop the requirements to cover uses and conditions for which specific requirements did not previously exist.

Products, equipment and construction materials certified by UL in accordance with international or regional standards only (e.g., products Classified to an IEC or ISO Standard) are intended for distribution, installation and use in areas of the world where the specified standards have been adopted and are in effect as national or regional standards.

INSTALLATION REQUIREMENTS

The limitations for the equipment as specified in the general Guide Information for each product category such as voltage and temperature limits, markings, special descriptions and installation provisions need to be noted prior to installation and use.

Equipment has been investigated with reference to risks to life and property and for potential conformity to the installation and use provisions of the applicable installation codes and standards of the National Fire Protection Association (NFPA), and applicable model codes identified in the general Guide Information for each product category.

Some products are certified for uses not within the scope of nationally recognized installation codes and standards. Such products are investigated for the specifications or use conditions indicated in the general Guide Information for each product category.

These products are intended for installation subject to approval by the Authority Having Jurisdiction. Authorities Having Jurisdiction should be consulted before installation.

INSTRUCTIONS AND PRODUCT MARKINGS

These products are intended to be installed in accordance with the installation instructions provided with the product. It is critical that the cautionary statements and installation and operating instructions on the product and in accompanying literature be followed.

FIELD MODIFICATIONS

The UL Mark applies to the product as it is originally manufactured when shipped from the factory. Authorized use of the UL Mark is the manufacturer's declaration that the product was originally manufactured in accordance with the applicable requirements. UL does not know what the effect of a modification may have on the safety of the product or the continued validity of the UL certification mark unless the field modifications have been specifically investigated by UL. Unless UL investigates a modified product, UL cannot indicate that the product continues to meet UL's safety requirements.

The only exception for a field modification authorized by UL is when the product has specific replacement markings. For example, a switchboard may have specific grounding kits added in the field. The switchboard is marked with a list of specific kit numbers that have been investigated for use in that particular switchboard. Only grounding kits that are included on the product have been investigated for use in that product.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

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2012 BUILDING MATERIALS DIRECTORY

ELEVATOR AND ESCALATOR SYSTEMS, SUBSYSTEMS, COMPONENTS AND FUNCTIONS (AECO)

ELEVATOR AND ESCALATOR SYSTEMS, SUBSYSTEMS, COMPONENTS AND FUNCTIONS (AECO)

GENERAL

This category covers elevator and escalator systems, subsystems, components and related functions investigated for conformance to ASME A17.7/CSA B44.7, "Performance-Based Safety Code for Elevators and Escalators."

Elevator and escalator systems include subsystems, components and functions investigated as complete units. Subsystems, components and functions of a system are specifically designated in the installation instructions provided with the system.

Where an elevator system is designated as a "model elevator," it is considered representative of series-produced elevators with the same design and configuration. All permitted variations between the model elevator and the installed elevators are clearly specified (with minimum and maximum values, features, etc.) in the technical documentation accompanying the Certificate of Conformance.

Continued surveillance of the manufacture of approved designs of systems, subsystems, components and functions is a part of this program. Inspections and tests of representative installations are made to determine the correctness of installation of subsystems, components and functions, wiring, quality of workmanship, operability of circuits, and maintenance.

This category does not cover the investigation of the design, construction, operation, inspection, testing, maintenance, alteration, or repair of elevator and escalator systems, subsystems, components and related functions using the conventional process of implementing ANSI/ASME A17.1/CSA B44, "Safety Code for Elevators and Escalators" (Option 1 as described in ASME A17.7/CSA B44.7).

RELATED PRODUCTS

Certain elevator and escalator products may be certified using the requirements contained in various UL Standards and/or ANSI/ASME A17.1/CSA B44. These certifications are covered under various product categories. The following is a partial list of where information can be found on these products.

Elevator control panels consisting of assemblies of equipment intended to control elevators, dumbwaiters, escalators, moving walks, inclined lifts and their associated equipment are covered under Elevator Control Panels (FQPB).

Elevator control panels intended for use in hazardous (classified) locations are covered under Elevator Control Panels for Use in Hazardous Locations (FSNA). Elevator control panels relating to hazardous (classified) locations that are intended for installation in unclassified locations are covered under Elevator Control Panels Relating to Hazardous Locations (FSSA).

Accessories and controllers intended for use in elevator applications, including elevator accessories such as push buttons, indicator lights and luminaires, and elevator controls such as power supplies (motor and door operators) are covered under Elevator Controls and Accessories (FQMW).

Elevator hoistway door interlocks and elevator hoistway door combination mechanical locks and electric contacts are covered under Elevator Door-locking Devices and Contacts (FQXZ).

Elevator door-locking devices and contacts intended for use in hazardous (classified) locations are covered under Elevator Door-locking Devices and Contacts for Use in Hazardous Locations (FSNT).

Switches intended for use with elevator system cars or shafts are covered under Elevator Switches (FRAH).

Passenger elevator car enclosures incorporating materials and equipment such as decorative panels, suspended ceilings and luminaires are covered under Passenger Elevator Car Enclosures (FRBK).

ADDITIONAL INFORMATION

For additional information, see Electrical Equipment for Use in Ordinary Locations (AALZ), Mechanical Equipment and Associated Products (AAME) and Building Materials (AABM).

REQUIREMENTS

The basic standards used to investigate products in this category are:

- ANSI/ASME A17.1/CSA B44, "Safety Code for Elevators and Escalators"
- ANSI/ASME A17.5/CSA B44.1, "Elevator and Escalator Electrical Equipment"
- ASME A17.7/CSA B44.7, "Performance-Based Safety Code for Elevators and Escalators"
- ISO/TS 22559-1, "Safety Requirements for Lifts (Elevators) – Part 1: Global Essential Safety Requirements (GESRs) for Lifts (Elevators)"

CERTIFICATE OF CONFORMANCE

ELEVATOR AND ESCALATOR SYSTEMS, SUBSYSTEMS, COMPONENTS AND FUNCTIONS (AECO)

The Certificate of Conformance serves as evidence that a representative sample of the elevator or escalator system, subsystem or component and related functions has been investigated for conformance to ASME A17.7/CSA B44.7.

The Certificate (and accompanying documents, if any) is intended to provide Authorities Having Jurisdiction with basic information on the requirements for installation and maintenance of an elevator or escalator system, subsystem or component and related functions for conformance to ASME A17.7/CSA B44.7.

The Certificate does not cover the final installation of the entire elevator or escalator equipment in the building or structure.

The Certificate includes:

- the name and address of the
 - manufacturer of the subsystem, component or function, and the name and address of the applicant (if other than the manufacturer), or
 - supplier whose products are the subject of the certification;
- the scope of the certification, including, as appropriate,
 - the product(s) certified, which is permitted to be identified by type or range of products. Where the certification is for a function, the product identity includes the word "Function";
 - relevant parts of ASME A17.7/CSA B44.7 (e.g., GESRs, SPs) to which each product or product type is certified, and
 - statement of compliance with ASME A17.7/CSA B44.7;
 - where the certification is for a function, the identity of all of the components, firmware, software, etc., associated with the function; and
- the effective date of the Certificate and the term (time limit), or expiration date;
- a unique Certificate number;
- critical information related to installation or maintenance and any conditions or limitations on the installation and use of the product(s).

UL MARK

In addition to the Certificate of Conformance noted above, the Classification Mark of UL also appears on the subsystem or component and is the only method provided by UL to identify subsystems or components manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

[PRODUCT IDENTITY, MODEL, STYLE, etc.] IN ACCORDANCE WITH ASME A17.7/CSA B44.7 Certificate No.

The Certificate number identifies the Certificate(s) of Conformance that contains the basic information on the use of the product in the elevator system, and the requirements for installation and maintenance of an elevator or escalator system, subsystem or component and related functions for conformance with the requirements of ASME A17.7/CSA B44.7.

If a component or subsystem is certified for use with more than one system, the Classification Mark may contain more than one Certificate number.

Where the certification is for a function, the Classification Mark appears on each of the critical parts associated with the function or on a major part of the system incorporating key components of the function (such as a control panel). The product identity includes the word "Function" (e.g., "Function Software," "Switch Override Function") and the certificate identifies all of the components, firmware, software, etc., associated with the function.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

AVANTI WIND SYSTEMS INC
5150 S TOWNE DR, NEW BERLIN WI 53151

SA33120

Model or Type Dsg	Certificate No.	Effective Date	Expiration Date
Model elevator system 50LZXXXX (See Notes Below)	2011120809CA35125	December 8, 2011	December 8, 2014

Notes:

- "50" specifies the manufacturing location – New Berlin, WI USA
- "L" specifies Shark Model
- "Z" specifies the manufacturer or design and can be from 0 to 9
- "XXXX" specifies the serial number

Documents
Document Sharing Hub

ELEVATOR AND ESCALATOR SYSTEMS, SUBSYSTEMS,
COMPONENTS AND FUNCTIONS (AECO)

2

OTIS ELEVATOR CO **SA33084**
ENGINEERING CENTER 5 FARM SPRINGS, FARMINGTON CT
06032

Model or Type Dsg	Certificate No.	Effective Date	Expiration Date
Coated Steel Belts			
Model AAA717X1	2009031209CA07092	March 12, 2009	March 12, 2012
(Drawing: DWG AAA717X)			
Model AAA717AD1	2009031209CA07092	March 12, 2009	March 12, 2012
(Drawing: DWG AAA717AD)			
Model AAA717W1 (Drawing: DWG AAA717W)	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA717R1 (Drawing: DWG AAA717R)	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA717AJ2 (Drawing: DWG AAA717AJ)	2011111411CA52962	November 14, 2011	November 14, 2014

Coated Steel Belt Terminations

Model TAA20650F1	2009031209CA07092	March 12, 2009	March 12, 2012
Model TAA20650F2	2009031209CA07092	March 12, 2009	March 12, 2012
Model TAA20650H1	2009031209CA07092	March 12, 2009	March 12, 2012
Model TAA20650H2	2009031209CA07092	March 12, 2009	March 12, 2012
Model TAA20650H6	2009031209CA07092	March 12, 2009	March 12, 2012
Model TAA20650H7	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA20650S1	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA20650S2	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA20650S4	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA20650Y1	2011111411CA52962	November 14, 2011	November 14, 2014

Model AAA20650Y2	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y3	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y4	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y5	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y6	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y7	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650Y8	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAA20650AD1	2011111411CA52962	November 14, 2011	November 14, 2014

Coated Steel Belt Monitoring Systems "PULSE"

Model ABA21700X101	2009031209CA07092	March 12, 2009	March 12, 2012
Model ABA21700X102	2009031209CA07092	March 12, 2009	March 12, 2012
Model ABA21700X103	2009031209CA07092	March 12, 2009	March 12, 2012
Model ABA21700X107	2009031209CA07092	March 12, 2009	March 12, 2012
Model ABA21700X108	2009031209CA07092	March 12, 2009	March 12, 2012
Model ABA21700X109	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA21700AC101	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA21700AC102	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAA21700AC103	2009031209CA07092	March 12, 2009	March 12, 2012
Model AAC21700AG109	2011111411CA52962	November 14, 2011	November 14, 2014

Model AAC21700AG110	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG111	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG112	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG113	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG114	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG115	2011111411CA52962	November 14, 2011	November 14, 2014
Model AAC21700AG116	2011111411CA52962	November 14, 2011	November 14, 2014

SAFEWORKS L L C **SA33229**
365 UPLAND DR, TUKWILA WA 98188

Model or Type Dsg	Certificate No.	Effective Date	Expiration Date
Model elevator system			
Turbine Service Lift Models W ABC D E F (See Notes Below)	2011030108CA11063	March 1, 2011	March 1, 2014

Note:

- 1 "AB" specifies the tower model / manufacturer and can be any alpha numeric combination

ELEVATOR AND ESCALATOR SYSTEMS, SUBSYSTEMS,
COMPONENTS AND FUNCTIONS (AECO)

- 2 "C" specifies a door type and can be any of the following:
- 0 indicating a hinged window
 - 1 indicating a sliding window
 - 2 indicating a rolling window
 - 3 indicating a full rolling door
 - 5 indicating a full sliding door
- 3 "D" specifies the tower height and can be from 0 to 9
- 4 "E" specifies supply voltage and can be any of the following:
- 0 indicating 208 VAC
 - 1 indicating 400 VAC
 - 2 indicating 600 VAC
 - 3 indicating 690 VAC (stepped down to 600 VAC by a transformer supplied by the end use customer)
 - 4 indicating 480 VAC
- 5 "F" specifies compliance to ASME A17.7 requirements and is a 1

THYSSENKRUPP ELEVATOR **SA33179**
9280 CRESTWYN HILLS DR, GERMANTOWN TN 38125

Model or Type Dsg Function:	Certificate No.	Effective Date	Expiration Date
Door bypass switch functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
Hoistway access bypass functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
Hoistway access transfer switch functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
Hoistway access up and down switch functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
In-car stop switch override function			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
Inspection transfer switch functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013
Inspection up and down switch functions			
for TAC50-04 Traction Control System	2010073009CA48622 (Revised 2011-05-02)	July 30, 2010	July 30, 2013

Model or Type Dsg Function:	Certificate No.	Effective Date	Expiration Date
Door bypass switch functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Hoistway access bypass functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Hoistway access transfer switch functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Hoistway access up and down switch functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
In-car stop switch override function			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Inspection transfer switch functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Inspection up and down switch functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014
Operation in Leveling or Truck Zone functions			
for TAC32 Hydro Control System	2011033010ME07795	April 29, 2011	April 29, 2014



Documents
Document Sharing Hub

BUILDING MATERIALS (BHWV)**DISCRETE PRODUCTS INSTALLED IN
AIR-HANDLING SPACES (BHZF)****GENERAL**

This category covers products installed in air-handling spaces (plenums) as defined in Article 300 of ANSI/NFPA 70, "National Electrical Code,"

Chapter 4 of ANSI/NFPA 90A, "Standard for the Installation of Air-Conditioning and Ventilating Systems," Section 602 of the "International Mechanical Code," and Section 602 of the "Uniform Mechanical Code."

The test provides data with regard to peak rate of heat release, maximum peak normalized optical density and maximum average normalized optical density during fire exposure of the Classified materials.

Authorities Having Jurisdiction should be consulted before installation.

ADDITIONAL INFORMATION

For additional information, see Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is UL 2043, "Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces."

UL MARK

The Classification Mark of UL on the product or on the smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

+

**AS TO HEAT RELEASE RATE AND SMOKE OPTICAL DENSITY ONLY
Control No.**

+ The product name or other appropriate product description as shown in the individual Classifications

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

AMERICAN ALDES VENTILATION CORP R22371
SUITE 104 4521 19TH ST CT E, BRADENTON FL 34203
Constant Airflow Regulator.

BUILD RIGHT PRODUCTS L L C R26218
159 11936 W 119TH ST, OVERLAND PARK KS 66213
FlexRight Radius Forming Brace

BUILDINGS & MATTERS L L C R26777
144 LINCOLN RD PO BOX 234, LINCOLN MA 01773-3832
The Puncture Solution, Model TPS-P0001.

CAMBRIDGE RESOURCES R25520
960 ALABAMA AVE, BROOKLYN NY 11207
Polypropylene strapping.

DIVERSITECH CORP R22274
SUITE 220 4170 ASHFORD DUNWOODY RD, ATLANTA GA 30319
Duct support webbing, designated 710-100LA, 710-101, 710-102 and 710-103.

DURA-TITE SYSTEMS L L C R25339
450 W 29TH ST, ERIE PA 16508
Trunkline Takeoff in sizes 4,5,6,7,8,10, and 12 inches

FLEXIBLE TECHNOLOGIES INC, SUB OF SMITHS INDUSTRIES PLC R16727
528 CARWELLYN RD PO BOX 888, ABBEVILLE SC 29620
Flex Flow Elbow, Flex Tie.

GREEN BUILDING SOLUTIONS L L C R25224
3835 DEER RUN, DENVER NC 28037
Floor Diffuser.

HONEYWELL INTERNATIONAL INC R21456
ACS ENVIRONMENTAL & COMBUSTION CONTROLS 1985
DOUGLAS DR N, GOLDEN VALLEY MN 55422

**Discrete Products Installed in Air-handling Spaces
(BHZF)-Continued**

Control damper.

HYDRA-ZORB CO R26338
2450 COMMERCIAL DR, AUBURN HILLS MI 48326

Cushion clamp assembly, Models 100025, 100031, 100037, 100047, 100050, 100062, 100075, 100087, 100100, 100112, 100119, 100125, 100137, 100150, 100162, 100175, 100187, 100200, 100212, 100225, 100237, 100251, 100262, 100300, 100312, 100362, 100412, 200025, 200037, 200050, 200075, 200100, 200125, 200150, 200200, 200250, 200300, 200350, 200400, 200500, 200600.

KLO-SHURE INC R22170
2450 COMMERCIAL DR, AUBURN HILLS MI 48326
Insulation Coupling.

NAILOR INDUSTRIES INC R21545
98 TORYORK DR, TORONTO, ON M9L 1X6 CANADA
Floor Diffuser.

NELCO PRODUCTS INC R21873
22 RIVERSIDE DR, PEMBROKE MA 02359
Support Webbing, "Ductmaster red striped support webbing".

NIBCO INC R26923
WORLD HEADQUARTERS 1516 MIDDLEBURY ST PO BOX 1167,
ELKHART IN 46515
NIB-Seal insulated valve handle assembly, Models 65335, 65336, and 65337.

PIPE-TYTES INC R21097
9050 16TH ST, VERO BEACH FL 32966
Pipe hanger and metal stud insulator.

STUDOR INC R20814
SUITE 205 720 BROOKER CREEK BLVD, OLDSMAR FL 34677
Tec Vent.

TITUS PRODUCTS, DIV OF TOMKINS INDUSTRIES R21132
990 SECURITY ROW, RICHARDSON TX 75081
Floor Diffuser and Air Diffuser.

**NONCOMBUSTIBLE BUILDING MATERIALS
(BICW)****GENERAL**

This category covers various noncombustible building materials Classified in accordance with ANSI/ASTM E136, "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C." This standard is used to investigate the response of building materials to heat and flame under controlled conditions in a vertical tube furnace. Classifications are confined to the materials themselves and do not pertain to structures in which the materials may be installed.

Authorities Having Jurisdiction should be consulted before installation.

Where indicated in the individual Classifications, products covered under this category have also been evaluated by ICC Evaluation Service (ICC-ES).

UNEVALUATED FACTORS

The acoustical, structural strength and toxicity of the products of combustion and other properties have not been investigated.

RELATED PRODUCTS

For surface burning characteristics of similar products, see Surface Burning Characteristics (BIKT).

ADDITIONAL INFORMATION

For additional information, see Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/ASTM E136, "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C."

UL MARK

The Classification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

**NONCOMBUSTIBLE BUILDING MATERIALS
IN ACCORDANCE WITH ASTM E136
Control No.**

Documents

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Noncombustible Building Materials (BICW)–Continued

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JACO MFG INC **R19081**
MT EMPIRE INDUSTRIAL PARK 263 NICKS CREEK RD,
ATKINS VA 24311
 Sealant material designated, "JACO FIRESTOP" and "FIRE AND DRAFT SEALER".

RECTORSEAL **R14546**
2601 SPENWICK DR, HOUSTON TX 77055
 Caulking material designated RectorSeal RS-136 Draft Stop / Fire Block Caulk.

UNITED STATES GYPSUM CO **R25352**
550 W ADAMS ST, CHICAGO IL 60661-3676
 Mineral and fiber board designated Type "STRUCTO-CRETE".
 Gypsum wallboard designated 5/8" SHEETROCK® Brand FIRECODE® Glass-Mat Panels, Type SGX.

UNITED STATES GYPSUM CO **R5698**
550 W ADAMS ST, CHICAGO IL 60661-3676
 Floor or roofing topping material designated as Type CSD and Type HSLRK.

DECKING MATERIALS FOR USE IN WILDLAND-URBAN INTERFACE FIRE AREAS (BIIH)

GENERAL

This category covers the fire performance of decking materials used in the exterior construction of new buildings within wildland-urban interface fire areas as defined by the "California Building Code." This category applies to those decking surfaces that have any portion within 10 feet of the primary structure.

The "California Building Code" references California State Fire Marshal SFM Standard 12-7A-4A, "Decking Alternate Method A." This test method includes an under-deck flame exposure test. This test determines the heat release rate (HRR) and degradation modes of decking when exposed to a burner flame representative of combustibles beneath a deck. When decking is tested in accordance with SFM Standard 12-7A-4A, the attached exterior wall covering is noncombustible or ignition-resistant material.

The Classifications are confined to the materials themselves and do not pertain to the structures in which the materials may be installed.

Authorities Having Jurisdiction should be consulted before installation.

UNEVALUATED FACTORS

The load-carrying properties of decking materials may be adversely impacted by exposure to heat and fire. The ability of the decking to maintain its structural integrity during or following a fire condition has not been investigated.

The toxicity of the products of combustion and other physical properties of these decking materials has not been investigated.

RELATED PRODUCTS

For information on related products, see Surface Burning Characteristics (BIKT).

Wood-composite deck board and guardrail systems investigated in accordance with specific performance requirements of the ICC Evaluation Service's document AC174, "Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails)," are covered under Deck Board and Guardrail Systems (BIHW).

ADDITIONAL INFORMATION

For additional information, see Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is the "California Building Code" (2010), Section 709A.3, "Decking Surfaces." This code references the performance testing described in California State Fire Marshal SFM Standard 12-7A-4A, "Decking Alternate Method A."

UL MARK

The Classification Mark of UL on the product or on the smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

Decking Materials for Use in Wildland-Urban Interface Fire Areas (BIIH)–Continued

DECKING MATERIAL IN ACCORDANCE WITH SECTION 709A.3 OF THE CALIFORNIA BUILDING CODE (2010)

Control No.

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ADVANCED ENVIRONMENTAL RECYCLING **R25999**
TECHNOLOGIES INC

914 N JEFFERSON, SPRINGDALE AR 72764

"ChoiceDek® FR" or "MoistureShield® FR" composite decking material, nominal size 2" x 6".

"ChoiceDek® FR" or "MoistureShield® FR" composite decking material, nominal size 5/4" x 6".

"ChoiceDek® FR" or "MoistureShield® FR" composite decking material, nominal size 1" x 5.4".

AZEK BUILDING PRODUCTS **R25787**

801 COREY ST, MOOSIC PA 18505

"AZEK Deck" (Harvest Collection) composite decking material, nominal size 1" x 5-1/2".

"AZEK Deck" (Arbor Collection) composite decking material, nominal size 1" x 5-1/2".

"AZEK Deck" (Terra Collection) composite decking material, nominal size 1" x 5-1/2".

"AZEK Deck" (Harvest Collection) composite decking material, nominal size 1" x 3-1/2".

"AZEK Porch" tongue and grooved composite decking material, nominal size 1" x 3".

ENDURIS L L C **R26796**

7167 OLD KINGS RD, JACKSONVILLE FL 32219-3727

"EnDeck" composite decking material, nominal size 1 in. x 5.5 in.

TAMKO BUILDING PRODUCTS INC **R25876**

220 W 4TH ST PO BOX 1404, JOPLIN MO 64801

"EverGrain" composite decking material, nominal size 15/16" x 5-1/2".

"EverGrain" composite decking material, nominal size 1-7/16" x 5-1/2".

"Elements DockBoard" composite decking material, nominal size 1-1/2" x 5-1/4".

SURFACE BURNING CHARACTERISTICS (BIKT)

GENERAL

Surface burning characteristics provide data with regard to flame spread and smoke developed during fire exposure of the Classified materials in comparison with inorganic reinforced cement board and untreated red oak lumber when exposed to fire under similar conditions.

These materials must have a flame spread rating of 200 or less on one face to be eligible for Classification, unless indicated otherwise in the individual product categories. For a finished product made up of two or more components, the ratings of the individual components, or the highest rating of any of the components, may be shown in addition to the finished product rating. For a finished product which is not symmetrical through its cross-section, the Classification may include the specific ratings of each face, or one rating which is representative of each face.

As indicated in the individual Classifications, material systems have been additionally fire tested in accordance with the requirements, descriptions and procedures of the indicated national codes and standards.

Tests for Classification of building materials for surface burning characteristics contemplate interior applications only, unless indicated otherwise in the individual Classifications as having been investigated for exterior applications.

UNEVALUATED FACTORS

Toxicity of the products of combustion have not been investigated. It should be recognized that the products of combustion from fires may be toxic to varying degrees, inasmuch as they may include smoke (particulate), carbon dioxide, carbon monoxide, and other vapors and gases, depending upon the conditions of burning and the materials involved. Occupancy tenability depends upon the conditions of heating or burning and the degree of confinement (ventilation) of the products of combustion or decomposition.

REQUIREMENTS

BUILDING MATERIALS (BHWV)

Surface Burning Characteristics (BIKT)–Continued

The basic standard used to investigate building products for surface burning characteristics is ANSI/UL 723, "Test for Surface Burning Characteristics of Building Materials." The same test method is also covered in ANSI/ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials." Where surface burning characteristics are required, many model codes recognize either standard.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

Acoustical Materials (BIYR)

GENERAL

This category covers acoustical materials Classified as to the surface burning characteristics shown in the individual Classifications.

Acoustical materials to be eligible for Classification must have a flame spread rating of 200 or less on both faces.

Depending on the type of field mounting required by the acoustical product, either wood furring strips or metal splines are intended to be used to support acoustical materials whose maximum dimension is less than 20 in. (508 mm).

Some acoustical materials are provided with facings that may affect the contribution of combustibles under fire conditions. This effect is determined by testing the sample with a longitudinal butt joint, constructed by slitting the facing or by using a factory or field joint (if applicable).

In some cases, products are Classified under the designation "FHC 25/50." This denotes that these products have flame spread values of 25 or less and smoke developed values of 50 or less.

The noise reduction coefficient (NRC) is determined by ASTM C423 (2008a), "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." The NRC is published as a single number, such as 0.60.

The ceiling attenuation class (CAC) is determined by ANSI/ASTM E1414 (2006), "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." The CAC is published as a single number such as 32.

The articulation class (AC) is determined by ASTM E1111 (2007), "Standard Test Method for Measuring the Interzone Attenuation of Open Office Components." The AC is published as a single number such as 170.

The Classifications are confined to the materials themselves and to the methods of application indicated and do not pertain to the structures in which the materials may be installed.

Products identified as finished with a coating have not been investigated as to increase of surface burning due to repainting after installation.

Authorities Having Jurisdiction should be consulted before installation.

RELATED PRODUCTS

For the fire resistance rating of these products, see Acoustical Materials (BIYT).

ADDITIONAL INFORMATION

For additional information, see Surface Burning Characteristics (BIKT) and Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 723, "Test for Surface Burning Characteristics of Building Materials."

In addition to the surface burning characteristics, where indicated in the individual Classifications, acoustical materials have also been Classified in accordance with ANSI/ASTM E136 (2011), "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C." Also, where indicated in the individual Classifications, acoustical materials have been Classified as to their sound absorption and sound transmission properties in accordance with ASTM C423 (2008a), "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method," ASTM E1111 (2007), "Standard Test Method for Measuring the Interzone Attenuation of Ceiling Systems," and ANSI/ASTM E1414 (2006), "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum."

UL MARK

The Classification Mark of UL on the product or package of products is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

ACOUSTICAL MATERIAL
SURFACE BURNING CHARACTERISTICS

Control No.

BUILDING MATERIALS (BHWV)

5

Acoustical Materials (BIYR)–Continued

+ Flame spread and smoke developed values or the designation "FHC 25/50" applicable to the product

The Classification Mark may also include the following statements:

**ALSO CLASSIFIED IN ACCORDANCE WITH ANSI/ASTM E136
STANDARD TEST METHOD FOR BEHAVIOR OF
MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C**

and/or

ALSO CLASSIFIED FOR ACOUSTICAL PROPERTIES

NOISE REDUCTION COEFFICIENT ***

IN ACCORDANCE WITH ASTM C423

CEILING ATTENUATION CLASS ***

IN ACCORDANCE WITH ANSI/ASTM E1414

ARTICULATION CLASS ***

IN ACCORDANCE WITH ASTM E1111

Where *** is the performance value

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

ARMSTRONG WORLD INDUSTRIES INC R3407

RESEARCH & DEVELOPMENT CENTER 2500 COLUMBIA AVE,
LANCASTER PA 17604

Acoustical tile, Types "BF", "PC", "XLD", FHC 25/50.

Acoustical panel, Type "GB" glass and mineral fiber type with facings and coatings, FHC 25/50.

Acoustical panel, Type "OB", FHC 25/50.

Type "PC" acoustical material is also Classified in accordance with ANSI ASTM E136.

Types "BF", "GB", "PC" and "XLD" acoustical materials are also Classified as to their sound absorption and sound transmission properties in accordance with ASTM C423, ASTM E1111 and ANSI E1414. For acoustical properties see Classification Mark on product carton.

BUILDING PRODUCTS OF CANADA CORP R16414

9510 ST PATRICK ST, LASALLE, QC H8R 1R9 CANADA

The following products are eligible to bear the UL Classification Mark incorporating the designation "FHC25/50" or the individual surface burning characteristics values for flame spread and smoke developed.

Acoustical tile and panels uncoated or coated with various coatings, Type AP, AP-1 or W.

Flame Spread	25
Smoke Developed	0-15

Acoustical tile and panels, coated on both sides, Type GSB.

Flame Spread	25
Smoke Developed	10

Acoustical tile, uncoated or coated, Type FR-4.

Flame Spread	0
Smoke Developed	0

"Also Classified in accordance with ASTM E136", Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.

Acoustical tile and panel, uncoated or coated, Type CSB.

Flame Spread	25
Smoke Developed	10

Acoustical tile and panels, vinyl-scrim-foil or vinyl face, Type M

Flame Spread	25
Smoke Developed	45

Acoustical tile, vinyl faced, Type FR81.

Flame Spread	25
Smoke Developed	45

Acoustical tile and panels with coated or uncoated back, coated, coated glass mat or vinyl faced Types CSB-X, FR-X1.

Flame Spread	25
Smoke Developed	25

Fiberglass acoustical tile or panels, vinyl faced, designated Hi-Lite.

Flame Spread	25
Smoke Developed	50



Documents

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Acoustical Materials (BIYR)–Continued

Fiberglass acoustical tile or panels, glass cloth faced, designated Nubby .

Flame Spread	25
Smoke Developed	50

Acoustical tile and panels coated or uncoated, designated Types FR81, FR83 .

Flame Spread	25
Smoke Developed	10

Types AP, AP-1, CSB, CSB-X, FR-4, FR81, FR83, FR-X1, GSB, Hi-Lite, M, MARS, Nubby, W acoustical materials are also Classified as to their sound absorption and sound transmission properties in accordance with ASTM C423-01, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method", ASTM E1111-96, "Standard Test Method for Measuring the Interzone Attenuation of Ceiling Systems" and ASTM E1414-00a, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Plenum". For acoustical properties see Classification Mark of UL on product carton.

CERTAINTED CORP **R2396**

CEILING GROUP PO BOX 860, VALLEY FORGE PA 19482

Acoustical tile or ceiling boards, mineral type.

	Type D	Type Safetone 7, 7A, 7B, 7BF, 7C and HP
Flame spread	10-15	25
Smoke developed	0-10	0

	VinylShield	Types "Safetone 8", "Safetone 6S", "Safetone 6SL", "G2" and "Customline"
Flame spread	25	25
Smoke developed	50	10

	Vinylrock
Flame spread	5
Smoke developed	5

	Open Plan-Elite Finish and Versatone
Flame spread	25
Smoke developed	40

	Open Plan-Nubby Finish	Symphony F and Theatre Black F
Flame spread	15	20
Smoke developed	10	10

	Symphony M
Flame spread	25
Smoke developed	30

CHICAGO METALLIC CORP **R11323**

4849 S AUSTIN AVE, CHICAGO IL 60638

Acoustical tile, Type Eurostone.

Flame spread	0
Smoke developed	0

CHICAGO METALLIC CORP **R16153**

4849 S AUSTIN AVE, CHICAGO IL 60638

Eurostone.

Flame spread	0
Smoke developed	0

DAIKEN CORP **R11016**

OPERATIONAL HEAD OFFICE 6-20 DOJIMA 1-CHOME, DOJIMA

AVANZA KITA-KU, OSAKA-SHI, OSAKA 530-8210 JAPAN

Acoustical Materials (BIYR)–Continued

Acoustical ceiling boards mineral type with a finish coating on one surface.

Flame spread	20
Smoke developed	15

DANOLINE A/S **R26164**

KLOVERMARKSVEJ 9500, HOBRO, NORTH

JUTLAND DENMARK

The following products are eligible to bear the UL Classification Marking incorporating the designation "FHC25/50" or the individual surface burning characteristics values for flame spread and smoke developed.

Basic Gypsum Ceiling Tiles, Type Designpanel, Tectopanel, Solopanel or Stratopanel.

Flame spread	0
Smoke developed	0

Painted Gypsum Ceiling Tiles, Type Contur, Belgravia, Markant, Plaza, Vista or Corridor.

Flame spread	0
Smoke developed	0

Faced Gypsum Ceiling Tiles, Type Danoline Tiles, Contrapanel or Corridor F30.

Flame spread	5-20
Smoke developed	5

ECOPHON A/B **R11180**

BOX 500 SE-260 61, HYLLINGE SWEDEN

Acoustical panels, glass fiber type, faced on one side.

	Painted Faced	Plastic Faced	Mat Faced
Flame spread	25	15	5
Smoke developed	10	15	5

Products designated Advantage, Combison, Flexiform, Focus, Gedina, Hygiene Advantage, Hygiene Performance, Hygiene Protec, Hygiene Protec Wallbaffle, Master, Meditec, Sombra, Super G, Wallpanel Colorado, Wallpanel Master and Wallpanel Super G acoustical materials, with or without suffixes are also Classified as to their sound absorption and sound transmission properties in accordance with ASTM C423-99A, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method", ASTM E1111-92, "Standard Test Method for Measuring the Interzone Attenuation of Ceiling Systems" and ASTM E1414-97, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Plenum". For acoustical properties see Classification Mark of UL on product carton.

NDC CO LTD **R13582**

1-687 MIMOMI-CHI, NARASHINO-SHI, CHIBA 275-0002 JAPAN

Acoustical aluminum alloy panels, uncoated or coated types A, B or C.

Flame spread	5
Smoke developed	0

OWENS CORNING MEXICO S DE R L DE C V **R13559**

AVE ACUEDUCTO 459 COL ZACATENCO 07360, MEXICO,

DF MEXICO

Acoustical panels, glass fiber type, with or without vinyl facing on one side.

	Unfaced	Vinyl faced
Flame spread	15	25
Smoke developed	0	30

PATT SPA **R26587**

VIA UDINE 40 33040, ATTIMIS, UD ITALY

Acoustical panels; coated on both sides, Type Acoustic Panelling .

Flame spread	10
Smoke developed	50



Documents

Document Sharing Hub

BUILDING MATERIALS (BHWV)

Acoustical Materials (BIYR)—Continued

TECTUM INC

R4122

105 S 6TH ST, NEWARK OH 43055

Sound absorbing materials placed in metal panels shall bear the Classification Marking of Underwriters Laboratories Inc., reading "Acoustical Materials" with Surface Burning Characteristics not greater than 25 flame spread, 25 fuel contributed and 15 smoke developed.

Acoustical tile and grid panel, Type "MO" .

	Regular Coating	Spatter Coating	Acrylic Coating
Flame spread	15	20	25
Fuel contributed	35	30	20
Smoke developed	0	0	10

Acoustical tile and grid panel, Type "MO-1" .

	Regular Coating	Spatter Coating	Acrylic Coating
Flame spread	20	20	25
Fuel contributed	30	30	20
Smoke developed	0	0	10

Tackboard Coating

Flame spread	20
Fuel contributed	20
Smoke developed	0

Boards consisting of wood fibers coated with inorganic binders with aluminum foil paper laminated to one surface and with or without a factory coating applied to the unfaced surface.

	Aluminum Foil Faced	Coated	Uncoated
Flame spread	10	15	20
Fuel contributed	5-30	15	15
Smoke developed	0	0	0

USG INTERIORS LLC

R3623

550 W ADAMS ST, CHICAGO IL 60661

The following products are eligible to bear the UL Classification Mark incorporating the designation "FHC25/50" or the individual surface burning characteristics values for flame spread and smoke developed.

Acoustical tile and panels uncoated or coated with various coatings, Acoustone Firecode, Type AP, AP-1, AP-2, AP-3, W or Acoustone .

Flame spread	25
Smoke developed	25

Acoustical tile and panels, coated on both sides, Auratone Type GSB .

Flame spread	25
Smoke developed	10

Acoustical tile and panels, coated on both sides, Firecode Auratone Type FR-2.

Flame spread	25
Smoke developed	10

Acoustical tile, uncoated or coated, Auratone Ceramic Type FR-4 .

Flame spread	0
Smoke developed	0

"Also Classified in accordance with ASTM E136", Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 C.

Acoustical tile and panel, uncoated or coated, Type Auratone CSB .

Flame Spread	25
Smoke Developed	10

Acoustical tile and panels, vinyl-scrim-foil or vinyl faced, Auratone Firecode Type M or Cleanroom.

Flame spread	25
Smoke developed	45

Acoustical tile, vinyl faced, Type Auratone Cleanroom FR81 .

Flame spread	25
Smoke developed	45

Acoustical tile and panels with coated or uncoated back and coated, coated glass mat or vinyl faced X-Technology Firecode Types FR-X1, CSB-X or X-Technology .

BUILDING MATERIALS (BHWV)

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Acoustical Materials (BIYR)—Continued

Flame spread	25
Smoke developed	25

Fiberglass acoustical tile or panels, vinyl faced, designated Type Hi-Lite.

Flame spread	25
Smoke developed	50

Fiberglass acoustical tile or panels, glass cloth faced, designated Type Nubby.

Flame spread	25
Smoke developed	50

Acoustical tile and panels coated or uncoated, designated Types FR81 and FR83 .

Flame spread	25
Smoke developed	10

Acoustical tile or panels, coated back, vinyl faced, Type Orion 210 or Orion 220 .

Flame spread	25
Smoke developed	25

Acoustical tile or panels, coated back and coated or uncoated glass mat faced, Type Orion 270 .

Flame spread	25
Smoke developed	25

Flame spread	25
Smoke developed	25

Acoustical tile or panels, coated back and coated glass mat faced, Type MARS .

Flame spread	25
Smoke developed	25

Fiberglass acoustical tile or panels, fiberglass mat faced, designated Halcyon Theater Black.

Flame spread	25
Smoke developed	50

Acoustical tile or panels, coated back and face, designated ASTRO .

Flame spread	25
Smoke developed	25

Acoustical tile and panel, uncoated or coated, Type Auratone CHF .

Flame Spread	25
Smoke Developed	20

Fiberglass acoustical tile and panels, coated glass mat faced, designated Halcyon.

Flame Spread	25
Smoke Developed	50

Acoustical tile or panels, coated back and face, designated ASTRO-FR .

Flame spread	25
Smoke developed	25

Types AP, AP-1, ASTRO, ASTRO-FR, CSB, CHF, CSB-X, FR-2, FR-4, FR81, FR83, FR-X1, GSB, Halcyon, Halcyon Theater Black, Hi-Lite, Nubby, Orion 210, Orion 220, Orion 270 and W, acoustical materials are also Classified as to their sound absorption and sound transmission properties in accordance with ASTM C 423, "Standard Test Method for Measuring the Interzone Attenuation of Ceiling Systems" and ASTM E 1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Plenum". For acoustical properties see Classification Mark of UL on product carton.

Adhesives (BJLZ)

GENERAL

This category covers adhesives Classified as to surface burning characteristics when applied to uncoated, high-density (nominal 110 pcf), 1/4 in.-thick inorganic reinforced cement board with flame spread and smoke developed values of 0 and other surfaces at the specific coverage rates indicated in the individual Classifications.

The flash point of the finished adhesive appears in the individual Classifications. The publication of the flash point data is not required.

Adhesives (BJLZ)—Continued

lish a flammability classification of the liquid adhesives, but to indicate the flashing characteristics of the liquid adhesive under a standard test procedure. When no flash point values appear in the individual Classifications the adhesive shows no flash point in the closed-cup tester. When it is not possible to determine the flash point in the closed-cup tester, the flash point is indicated as "Not Determinable."

The Classifications are confined to the materials themselves and do not pertain to the structures in which the materials may be installed.

The toxicity of the products of combustion and other properties have not been investigated.

Authorities Having Jurisdiction should be consulted before application.

Where indicated in the individual Classifications, products covered under this category have also been evaluated by ICC Evaluation Service (ICC-ES).

RELATED PRODUCTS

For the fire-resistance rating of these products, see Adhesives (BYWR).

ADDITIONAL INFORMATION

For additional information, see Surface Burning Characteristics (BIKT) and Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 723, "Test for Surface Burning Characteristics of Building Materials."

In addition to the surface burning characteristics, where indicated in the individual Classifications, foamed plastic adhesives have also been Classified in accordance with ASTM D1929-1996, "Standard Test Method for Determining Ignition Temperature of Plastics."

UL MARK

The Classification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

ADHESIVES**SURFACE BURNING CHARACTERISTICS**

+

Control No.

+ Flame spread and smoke developed values applicable to the product

or

ADHESIVES**SURFACE BURNING CHARACTERISTICS**

++

Control No.

++ Flame spread and smoke developed values applicable to the product and the following statement: "ALSO CLASSIFIED IN ACCORDANCE WITH ASTM D1929-96" (the minimum self and flash ignition temperatures obtained are included)

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

C L WARD & FAMILY INC**R15765**

UNIT 2 1502 INDUSTRIAL, MONONGAHELA PA 15063

**Applied to Inorganic
Reinforced Cement Board+**

Flame Spread
Smoke Developed

5
0

+Tested as applied in 3/8 in. wide beads, 12 in. on center, at a rate of 30 sq ft per gal.

Flash point of finished adhesive (closed cup), less than -20 C.

**Ward DL Adhesive
Applied to Inorganic
Reinforced Cement Board+**

Flame spread
Smoke developed

0
0

+Tested as applied in two 2 in. wide strips 8 in. on center (covering 16 percent of the exposed test sample area) at a coverage rate of 400 sq. ft. per gallon.

**CARLISLE COATINGS & WATERPROOFING
INCORPORATED, DBA HARDCAST****R6351**

900 HENSLEY LN, WYLIE TX 75098

Adhesive material designated "Glas-Grip 636", "Glas-Grip 637", "Glas-Grip 636 LV", "Glas-Grip 637 LV", "INSTA TACK", "INSTA TACK BLACK", "INSTA TACK LV", "INSTA TACK BLACK LV", "INSTA TACK RED" and "INSTA TACK RED LV".

Adhesives (BJLZ)—Continued

**Applied to Inorganic
Reinforced Cement Board +**

Flame spread
Smoke developed

0
0

+Tested as applied in two 3 in. wide strips 8 in. on center at a coverage rate of 750 sq ft per gal. Flash point of finished adhesive, closed cup: less than minus .15 c.

Adhesive material designated "Sure-Grip 404", "CCWI Solvent Base Duct Sealant" or "DuctSeal II".

**Applied to Inorganic
Reinforced Cement Board +**

Flame spread
Smoke developed

10
5

+Tested as applied in two 1/4 in. wide strips, 8 in. on center, at a coverage rate of 325 sq ft per gal. Flash point of finished adhesive, closed cup: less than minus 29 c.

Adhesive material designated "GlasGrip 925", "Roto-Tack", "GlasGrip 901", "Dyn-O-Tac II", "Coil-Tack", "GlasGrip 921", "GlasGrip 951" or "Booth-Tack".

**Applied to Inorganic
Reinforced Cement Board +**

Flame spread
Smoke developed

0
0

+Tested as applied in two 3 in. wide strips, 8 in. on center, at a coverage rate of 530 sq ft per gal. Flash point of finished adhesive, closed cup: No Flash to boiling.

CARLISLE SYNTEC INCORPORATED**R8103**

1285 RITNER HWY PO BOX 7000, CARLISLE PA 17013

Foamed plastic adhesive intended for field application.

Also examined for ignition properties in accordance with ASTM D1929.

Finished foamed plastic adhesive formed from "FAST® 100 Spray Polyurethane Foam Adhesive" isocyanate component and "Fast® 100 Spray Polyurethane Foam Adhesive" resin component.

**Applied to Inorganic
Reinforced Cement Board**

Flame spread
Smoke developed

5-20
0-35

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum self-ignition temperature: 914° F.

Minimum flash-ignition temperature: 698° F.

DESIGN POLYMERICS**R15327**

11609 MARTENS RIVER CIR, FOUNTAIN VALLEY CA 92708

**DP2500 or DP2501
Applied to Inorganic Reinforced
Cement Board +**

Flame spread
Smoke developed

5
0

+ Tested as applied at a rate of 600 sq ft per gal.

Flash point of liquid adhesive (closed cup) no flash to boiling.

DP2502 or DP2510 or DP2515**Applied To Inorganic Reinforced
Cement Board ++**

Flame spread
Smoke developed

5
0

++Tested as applied at a rate of 600 sq ft per gal.

Flash point of liquid adhesive (closed cup) no flash to boiling.

DP3050**Applied To Inorganic Reinforced
Cement Board +**

Flame spread
Smoke developed

0
0

+Tested as applied in two - 2 in. wide strips 8 in. on center (coverage 22 percent of the exposed test sample area) at a coverage rate of 250 sq ft per gal.

Flash point of liquid adhesive (closed cup) no flash to boiling.

+ Tested as applied in two 2 in. wide strips 8 in. on center at a coverage rate of 50 sq ft per gal.

BUILDING MATERIALS (BHWV)

Adhesives (BJLZ)—Continued

Flash Point of liquid adhesive, closed cup: shall be less than 20 C (68 F).

	DP 1090 Duct Sealer Applied to Inorganic Reinforced Cement Board+	
	A	B
Flame spread	0	0
Smoke developed	0	0

+ Tested as applied in one 2 in. wide strip (A) 0.020 in. thick, (B) 0.030 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than -20° C.

DUCTMATE INDUSTRIES INC R15712

1502 INDUSTRIAL DR, MONONGAHELA PA 15063

"Protack", "Protack HV", "Protack W" and
"Protack HVW"

	Applied to Inorganic Reinforced Cement Board+	
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in two 2 in. wide strips 8 in. on center (covering 16 percent of the exposed test sample area) at a coverage rate of 400 sq. ft. per gallon.

	Applied to Inorganic Reinforced Cement Board +	
Flame spread	5	0
Smoke developed	0	0

+Tested as applied in 3/8 in. wide beads, 12 in. on center, at a rate of 30 sq ft per gal.
Flash point of finished adhesive (closed cup), less than -20 C.

DURO DYNE CORP R5286

81 SPENCE ST, BAY SHORE NY 11706

	Applied to Inorganic Reinforced Cement Board	
Flame spread	5	0
Smoke developed	0	0

Tested as applied in one 2 in. wide strip 0.0032 in. thick. (Coverage: 11 percent of the exposed test sample area.)
Flash point of liquid sealant, closed cup: no flash to boiling.

	Applied to Inorganic Reinforced Cement Board	
Flame spread	15	0
Smoke developed	0	0

Tested as applied at a coverage of 450 sq ft per gal.
Flash point of liquid adhesive, closed cup: below -10 C (14 F).

	Applied to Inorganic Reinforced Cement Board	
Flame spread	10	0
Smoke developed	0	0

Tested as applied in 2 in. wide strips 6 in. on center at a rate of 50 sq ft per gal.
Flash point of liquid adhesive, closed cup: less than 20 F.

	Applied to Inorganic Reinforced Cement Board	
Flame spread	0	0
Smoke developed	0	0

Tested as applied at a coverage of 300 sq. ft per gal.

	Applied to Inorganic Reinforced Cement Board	
Flame spread	0	5
Smoke developed	0	5

Tested as applied in a 3 in. wide strip, at a coverage rate of 80 sq ft per gal.
Flash point of liquid adhesive, closed cup: No flash to boiling.

BUILDING MATERIALS (BHWV)

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Adhesives (BJLZ)—Continued

	Applied to Inorganic Reinforced Cement board PBA, SGD, SGD-C	Applied to Steel PBA, SGD, SGD-C
Flame spread	15	20
Smoke developed	0	15

Tested as applied in a 2 in. wide strip at a coverage of 26.7 sq ft per gal.
Flash point of finished adhesives (closed cup) less than 30 F respectively.

	Applied to Inorganic Reinforced Cement Board RPG
Flame spread	10
Smoke developed	25

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) less than -20 F.
Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) none to boiling.

	Applied to Inorganic Reinforced Cement Board+ WDS
Flame spread	5
Smoke developed	0

+Tested as applied in a 2 in. wide strip at a coverage rate of 25.0 sq ft/gal.

	Applied to Inorganic Reinforced Cement Board+ DWN
Flame spread	0
Smoke developed	0

+Tested as applied in a 2 in. wide strip at a coverage rate of 45 sq ft/gal.

	Applied to Inorganic Reinforced Cement Board + DWN
Flame spread	15
Smoke developed	0

+Tested as applied at a rate of 400 sq ft per gal.
Flash point of finished adhesive (Closed cup), less than -20 C.

	Applied to Inorganic Reinforced Cement Board + DWN
Flame spread	5
Smoke developed	0

+Tested as applied in 3/8 in. wide beads, 12 in. on center, at a rate of 30 sq ft per gal.
Flash point of finished adhesive (closed cup), less than -20 C.

DYN-AIR INC R16567

2100 REMEMBRANCE RD, LACHINE, QC H8S 1X3 CANADA

Adhesive intended for field application.

	Applied to Inorganic Reinforced Cement Board + DWN
Flame Spread	0
Smoke Developed	0

+Tested as applied in two 3 in. wide strips, 8 in. on center at a coverage rate of 750 sq ft per gal. Flash point of finished adhesive, closed cup: less than minus .15 c.

	Applied to Inorganic Reinforced Cement Board + DWN
Flame Spread	10
Smoke Developed	5

+Tested as applied in two 1/4 in. wide strips, 8 in. on center at a coverage rate of 325 sq ft per gal. Flash point of finished adhesive, closed cup: less than 29 C.

	Applied to Inorganic Reinforced Cement Board + DWN
Flame Spread	10
Smoke Developed	5

+Tested as applied in two 1/4 in. wide strips, 8 in. on center at a coverage rate of 325 sq ft per gal. Flash point of finished adhesive, closed cup: less than minus 29 c.
Adhesive material designated "Sure-Grip 404", "CCWI Solvent Base Duct Sealant", or "DuctSeal II".



Adhesives (BJLZ)—Continued

	Applied to Inorganic Reinforced Cement Board +
Flame Spread	10
Smoke Developed	5

+Tested as applied in two 1/4 in. wide strips, 8 in. on center, at a coverage rate of 325 sq ft per gal. Flash point of finished adhesive, closed cup: less than minus 29 c.

ER SYSTEMS

R18910

6900 BLECK DR, ROCKFORD MN 55373

Phomed plastic adhesive intended for field application.

Also examined for ignition properties in accordance with ASTM D1929.

Finished foamed plastic adhesive formed from "LOW RISE ADHESIVE" isocyanate component and "LOW RISE ADHESIVE" resin component.

	Applied to Inorganic Reinforced Cement Board
Flame Spread	15
Smoke Developed	10

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum flash-ignition temperature: 698° F.

FIRESTONE BUILDING PRODUCTS CO L L C

R9516

250 W 96TH ST, INDIANAPOLIS IN 46260

Phomed plastic adhesive intended for field application.

Also examined for ignition properties in accordance with ASTM D1929.

Finished foamed plastic adhesive formed from "FIRESTONE I.S.O. STICK" isocyanate component and "FIRESTONE I.S.O. STICK" resin component.

	Applied to Inorganic Reinforced Cement Board
Flame spread	15
Smoke developed	10

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum flash-ignition temperature: 698° F.

Foamed plastic adhesive intended for field application.

Finished foamed plastic adhesive formed from Mondur MR, Mondur MRS-4, Mondur MRS-5, Mondur MR Light, Papi 27, Rubinate M or Luprenate M-20 isocyanate component and I.S.O. Spray™ S Part B or I.S.O. Spray™ S Part A resin component.

	Applied to Inorganic Reinforced Cement Board
Flame spread	5 - 20
Smoke developed	0 - 35

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum self-ignition temperature: 914°F.

Minimum flash-ignition temperature: 698°F.

FOMO PRODUCTS INC

R18615

2775 BARBER RD PO BOX 1078, NORTON OH 44203

Foamed plastic adhesive intended for field application.

SURFACE BURNING CHARACTERISTICS

	Applied to Inorganic Reinforced Cement Board
Flame spread	5
Smoke developed	0

+Tested as applied to two 3/4 in. diameter beads 8 in. OC covering 8.3 percent of the exposed test sample area.

FRANKLIN INTERNATIONAL INC

R11721

2020 BRUCK ST, COLUMBUS OH 43207

	Franklin FW-680 and Franklin FW-680NS Applied to Inorganic Reinforced Cement Board	Applied to 18-gauge galvanized steel+
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip, 0.006 in. thick. (Coverage: 11 percent of the exposed test sample area).

Adhesives (BJLZ)—Continued

	Franklin FN-300 Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
Flame spread	5	5
Smoke developed	5	0

+Tested as applied in one 2 in. wide strip, 0.030 in. thick. (Coverage: 11 percent of the exposed test sample area). Flash point of finished adhesive (closed cup) less than -20 C.

	Franklin 3182 and Franklin 3191 Applied to Inorganic Reinforced Cement Board	Applied to 18-gauge galvanized steel+
Flame spread	0	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip, 0.011 in. thick. (Coverage: 11 percent of the exposed test sample area).

	Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
Flame spread	0	10
Smoke developed	0	10

+Tested as applied in one 2 in. wide strip, 0.040 in. thick. (Coverage: 11 percent of the exposed test sample area). Flash point of finished adhesive (closed cup) less than 20 F.

	Franklin FW-640 Applied to Inorganic Reinforced Cement Board+
Flame spread	5
Smoke developed	0

+Tested as applied in one 2 in. wide strip 0.005 in. thick. (Coverage: 11 percent of the exposed test sample area).

	FILTERFAB® 150		Applied to No. 18-gauge galvanized steel+	
	Applied to Inorganic Reinforced Cement Board+		A	B
Flame spread	5	5	5	5
Smoke developed	0	0	0	0

+Tested as applied in one 2 in. wide strip (A) 0.011 in. thick, (B) 0.0055 in. thick. (Coverage: 11 percent of the exposed test sample area).

	Uni-Seal Duct Sealer - 3164		Applied to No. 18-gauge galvanized steel+	
	Applied to Inorganic Reinforced Cement Board+		A	B
Flame spread	0	0	0	5
Smoke developed	0	0	0	10

+Tested as applied in one 2 in. wide strip (A) 0.011 in. thick, (B) 0.040 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than 0° F.

	Titebond Acoustical Sound Sealant And Titebond GreenChoice Acoustical Sound Sealant Applied to Inorganic Reinforced Cement Board+
Flame spread	0
Smoke developed	0

+Tested as applied in two 1/4 in. diameter beads, 8 in. OC. (Coverage: 2.8 percent of the exposed test sample area).

	Franklin SP Duct Sealer Applied to Inorganic Reinforced Cement Board+	
	A	B
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip (A) 0.020 in. thick, (B) 0.030 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than -20° C.

GRABBER CONSTRUCTION PRODUCTS, INC.
SUITE 200 20 W MAIN ST CT, ALPINE UT 84004

Documents
R16284
Document Sharing Hub

BUILDING MATERIALS (BHWV)

**Grabber Acoustical Sealant
Applied to Inorganic Reinforced Cement
Board+**

Flame spread
Smoke developed

0
0

+Tested as applied in two 1/4 in. diameter beads, 8 in. OC. (Coverage: 2.8 percent of the exposed test sample area).

H B FULLER CO R5661
1200 WILLOW LAKE BLVD, ST PAUL MN 55110

Flame spread
Smoke developed

No. 670
5
0

Tested as applied at a coverage of 250 sq ft per gal.
Flash point of finished adhesive (closed cup) less than 50 F.

Flame spread
Smoke developed

C-669
5
0

Tested as applied at a coverage of 250 sq ft per gal.
Flash point of finished adhesive (closed cup) 99 F.

**Applied to Inorganic Reinforced
Cement Board
85-15, CP-85 or CP-120**

Flame spread
Smoke developed

10
25

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) less than 30 F.

Applied to Inorganic Reinforced Cement Board	Applied To Steel
32-14 or CP-140, 82-55, 10-104 or 32-14C	32-14 or CP-140, 82-55, 10-104 or 32-14C

Flame spread
Smoke developed

15
0

Tested as applied in a 2 in. wide strip at a coverage of 26.7 sq ft per gal.
Flash point of finished adhesives (closed cup) less than 30 F respectively.

**Applied to Inorganic Reinforced
Cement Board
85-75 or 82-40**

Flame spread
Smoke developed

10
0

Tested as applied at a coverage of 200 sq ft per gal.

Applied to Inorganic Reinforced Cement Board	Applied To Steel
30-02, 30-02C	30-02, 30-02C

Flame spread
Smoke developed

15
0

Tested as applied in a 2 in. wide strip at a coverage of 26.7 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board
No. 647**

Flame spread
Smoke developed

10
0

Tested as applied at a coverage of 250 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board
RX-2466-X or FB-8058**

Flame spread
Smoke developed

5
0

Tested as applied at a coverage of 250 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board
SC-1460**

Flame spread
Smoke developed

5
0

Tested as applied in a 3 in. wide strip 6 in. OC at a coverage of 250 sq ft per gal.
Flash point of finished adhesive (closed cup) less than 20 F.

BUILDING MATERIALS (BHWV)

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**Applied to Inorganic Reinforced
Cement Board
SC-1456**

Flame spread
Smoke developed

5
0

Tested as applied at a coverage of 600 sq ft per gal.
Flash point of finished adhesive (closed cup) less than 20 F.

**Applied to Inorganic Reinforced
Cement Board
Fulaprene 303, 3N7,
SC252 or FS (Full Seal)
303 or FG (Full-Grip) 303**

Flame spread
Smoke developed

15
25

Test as applied in 3/8 in. wide strips 6 in. on center, at a coverage of 180 sq ft per gal.

Flash point of finished adhesive (closed cup) -20 C.

**Applied to Inorganic Reinforced
Cement Board
71-22, 70-95, 1C7,
1D7, 1D-ENN**

Flame spread
Smoke developed

10
0

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) 106 F.

**Applied to Inorganic Reinforced
Cement Board
SC-1470, FG-1470,
85-44, SC-2413,
SC-2418 and FG-2413**

Flame spread
Smoke developed

5
0

Tested as applied at a coverage of 250 sq ft per gal.
Flash point of finished adhesive (closed cup) less than 20 F.

**Applied to Inorganic Reinforced
Cement Board
ZZ-1964, FB-8076,
PA-1964 or ZZ-1964 CN**

Flame spread
Smoke developed

10
0

Tested as applied at a coverage of 425 sq ft per gal.
Flash point of finished adhesive (closed cup) 81 F.

**Applied to Inorganic Reinforced
Cement Board
85-20**

Flame spread
Smoke developed

15
0

Tested as applied at a coverage of 200 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board
1C7NF**

Flame spread
Smoke developed

10
0

Tested as applied at a coverage of 200 sq ft per gal.

**Applied to Inorganic Reinforced Cement
Board
C-3492-X, FB-8063, C-3492-X-EN, C-3492-XM,
C-3492-X-B
C-3492-X-C, C-3492-X-RB, C-3492-X-RN,
C-3492-X-LL
and 85-04 Facing Machine Adhesive**

10
0

Tested as applied at a coverage of 250 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board
85-11**

Flame spread
Smoke developed

10
25

Tested as applied at a coverage of 200 sq ft per gal.



Documents

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Adhesives (BJLZ)–Continued

Flash point of finished adhesive (closed cup) none to boiling.

**Applied to Inorganic Reinforced
Cement Board**
CP-88, CP-88-6, CP-124, CP-124-5,
CP-121, 85-32 or 85-22

Flame spread 10
Smoke developed 25

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) less than -20 F.
Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) none to boiling.

AP-2486

Flame spread 15
Smoke developed 0

Tested as applied at a coverage of 200 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board**
PD-0475, PD-0475B, 85-53 or 85-53LV

Flame spread 5
Smoke developed 15

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) no flash to boiling.

**Applied to Inorganic Reinforced
Cement Board**
AP-813 or FB-8094, AP-813-RNN
or 85-60, 85-61, FB-8094-RNN,
85-62 or 97-15

Flame spread 0
Smoke developed 0

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of finished adhesive (closed cup) no flash to boiling.

**Applied to Inorganic Reinforced
Cement Board**
SC-3402

Flame spread 0
Smoke developed 0

Tested as applied at a coverage of 325 sq. ft. per gal.

**Applied to Inorganic Reinforced
Cement Board**
3A3 or FD-4102
3F8 or FD-4112

Flame spread 10
Smoke developed 25

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of the finished product (closed cup) less than 0 deg F.

**Applied to Inorganic Reinforced
Cement Board**
85-15, CP-85, CP-120, CP-129, 81-32, 81-10 or
81-19

Flame spread 10
Smoke developed 25

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of the finished product (closed cup) less than 30 deg F.

**Applied to Inorganic Reinforced
Cement Board**
WB-2462

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 400 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board**
SC-0410

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 600 sq ft per gal.

Adhesives (BJLZ)–Continued

**Applied to Inorganic Reinforced
Cement Board**

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 350 sq ft per gal.
Flash point of the liquid adhesive (closed cup) 180 deg F minimum.

**Applied to Inorganic Reinforced
Cement Board**
32-50

Flame spread 5
Smoke developed 5

Tested as applied in a 2 in. wide strip at a coverage of 25.0 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board**
HL-2086

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 1450 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board**
WB-0802, WM-0802M, WB-08002-PN,
WB-0802-M-PNN

Flame spread 10
Smoke developed 20

**Applied to Inorganic Reinforced
Cement Board+**
32-17, CP-148

Flame spread 5
Smoke developed 0

+Tested as applied in a 2 in. wide strip at a coverage rate of 25.0 sq ft/gal.

**Applied to Inorganic Reinforced
Cement Board+**
CP-146, CP-145A,
32-19, 32-19 (red), 10-200

Flame spread 0
Smoke developed 0

+Tested as applied in a 2 in. wide strip at a coverage rate of 45 sq ft/gal.

**Applied to Inorganic Reinforced
Cement Board**
85-00, PD-2013F, CP-127

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 400 sq ft per gal.

**Applied to Inorganic Reinforced
Cement Board**
HL 9594F, HL-9615

Flame spread 0
Smoke developed 0

Tested as applied in three 3 in. wide strips, 6 in. OC (covering 50 percent
of the exposed test sample), at a total coverage of 8.1 g/ft².
Flash point of the finished adhesive: NA.

**Applied to Inorganic Reinforced Cement
Board**

Flammable Solvent Type **Nonflammable solvent Type**

CP-80 CP-82

Flame spread 10 10
Smoke developed 0 0

Tested as applied at a coverage of 200 sq ft per gal.
Flash point of flammable solvent type finished adhesive (closed cup) less
than -6.7 C.

**Applied to Inorganic Reinforced Cement
Board**
Nonflammable solvent Type
CP-89, CP-122 or 85-23

Flame spread 10
Smoke developed 0



Documents

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BUILDING MATERIALS (BHWV)

Adhesives (BJLZ)—Continued

Tested as applied at a coverage of 450 sq ft per gal.

Applied to Inorganic Reinforced Cement Board
CP-85 or CP-120

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 200 sq ft per gal.

Flash point of liquid adhesive (closed cup) less than -6.7 C.

Applied to Inorganic Reinforced Cement Board+
CP-141

Flame spread 5
Smoke developed 10

Tested as applied in a 2 in. wide strip, at a rate of 30 sq ft per gal.

Flash point of finished adhesive (closed cup) no flash to boiling.

Applied to Inorganic Reinforced Cement Board+
SF-A

Flame spread 5
Smoke developed 10

Tested as applied in a 2 in. wide strip, at a rate of 30 sq ft per gal.

HENKEL CORP R25448
ONE HENKEL WAY, ROCKY HILL CT 06067

Applied to Inorganic Reinforced Cement Board
56-5545

Flame spread 0
Smoke developed 0

Tested as applied at coverage of 455 sq ft per gal.

HENKEL CORP R6522
ONE HENKEL WAY, ROCKY HILL CT 06067

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 350 sq ft per gal.

Flash point of finished adhesive (closed cup) less than minus 20 C .

Applied to Inorganic Reinforced Cement Board

Flame spread 10
Smoke developed 0

Tested as applied at a coverage rate of 400 sq ft per gal.

Flash point of finished adhesive (closed cup) less than 130 F .

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage rate of 400 sq ft per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 350 sq ft per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 0
Smoke developed 5

Tested as applied at a coverage rate of 400 sq ft per gal.

Flash point of finished adhesive (closed cup) 161 F.

HENKEL CORPORATION R9732
7405 PRODUCTION DR, MENTOR OH 44060
"OSI "SC-175" Acoustical Sound Sealant" or "Green Series, Draft & Acoustical Sound Sealant" water based caulking material.

BUILDING MATERIALS (BHWV)

13

Adhesives (BJLZ)—Continued

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 5

Tested as applied in two 1/2 in. beads 8 in. on center. The sealant covered 5.6 percent of the exposed sample area.

HENKEL CORP R6022
SUITE B 10 FINDERNE AVE, BRIDGEWATER NJ 08807

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 200 sq ft per gal.

Flash point of finished adhesive (closed cup) less than minus 4 F.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 125 sq ft per gal.

Flash point of finished adhesive (closed cup) less than 20 F .

Applied to Inorganic Reinforced Cement Board

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 500 sq ft per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 10
Smoke developed 0

Tested as applied at a coverage of 500 sq ft per gal.

Flash point of finished adhesive (closed cup) below 20 F .

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 500 sq ft per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied in three longitudinal strips 6 in. on center, at a rate of 460 sq ft per gal.

Flash point of finished adhesive (closed cup) below 0 F.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 500 sq ft per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 275 sq. ft. per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage of 625 sq. ft. per gal.

Applied to Inorganic Reinforced Cement Board

Flame spread 0
Smoke developed 0

Tested as applied at a coverage of 300 sq. ft. per gal.



Documents

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Adhesives (BJLZ)–Continued

	Applied to Inorganic Reinforced Cement Board
Flame spread	5
Smoke developed	0

Tested as applied at a coverage of 260 sq. ft. per gal.

	Applied to Inorganic Reinforced Cement Board
Flame spread	5
Smoke developed	0

Tested as applied at a coverage of 200 sq. ft. per gal.

	Applied to Inorganic Reinforced Cement Board
Flame spread	0
Smoke developed	5

Tested as applied at a coverage of 625 sq ft per gal.

	Applied to Inorganic Reinforced Cement Board
Flame spread	5
Smoke developed	0

Tested as applied at a coverage of 300 sq ft per gal.

	Applied to Inorganic Reinforced Cement Board
Flame spread	0
Smoke developed	0

Tested as applied at a coverage of 500 sq ft per gal.

	Applied to Inorganic Reinforced Cement Board +
Flame spread	5
Smoke developed	5

	Applied to Inorganic Reinforced Cement Board +
Flame spread	0
Smoke developed	0

+Tested as applied at a coverage of 1200 sq ft per gal.

Tested as applied at a coverage of 800 sq ft per gal.

	Applied to Inorganic Reinforced Cement Board
Flame spread	0
Smoke developed	0

	Applied to Inorganic Reinforced Cement Board
Flame spread	0
Smoke developed	5

Tested as applied at a coverage of 500 sq ft per gal.

HERCULES INDUSTRIES INC R27168

1310 W EVANS AVE, DENVER CO 80223

An adhesive designated type “MTA500”, “MTA600” and “MTA600W”.

	Applied to Inorganic Reinforced Cement Board+
Flame spread	0
Smoke developed	0

+Tested as applied in two 3 in. wide strips, 8 in. on center, at a coverage rate of 530 sq. ft. per gal.

HILTI INC R16077

5400 S 122ND EAST AVE, TULSA OK 74146

	HILTI CS3250 HVAC DUCT SEALANT Applied to Inorganic Reinforced Cement Board	Applied to 18-Gauge Galvanized Steel
Flame spread	0	0
Smoke developed	0	0

Tested as applied in one 2 in. wide strip, 0.010 in. thick. (Coverage: 11 percent of the exposed test sample area.)

Flash point of finished adhesive (closed cup) less than -20 C.

Adhesives (BJLZ)–Continued

	HILTI CS3350 HVAC DUCT SEALANT (WATER BASED)+ Applied to Inorganic Reinforced Cement Board+	Applied to 18-Gauge Galvanized Steel+
Flame spread	0	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip (A) 0.011 in. thick, (B) 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area.)

IFS INDUSTRIES INC R20594

400 ORRTON AVE PO BOX 1053, READING PA 19603

An adhesive intended for field application.

	Applied to Inorganic Reinforced Cement Board
Flame Spread	0
Smoke Developed	0

Tested as applied at a coverage rate of 500 sq ft per gal.

ITW RAMSET R25562

700 HIGH GROVE BLVD, GLENDALE HEIGHTS IL 60139

An adhesive intended for field application.

	Ramset Sound Control Sealant Applied to Inorganic Reinforced Cement Board
Flame spread	0
Smoke developed	0

Tested as applied in one 2 in. wide strip 0.0032 in. thick. (Coverage: 11 percent of the exposed test sample area).

Flash point of liquid sealant, closed cup: no Flash to boiling.

ITW TACC R5058

56 AIR STATION INDUSTRIAL PARK, ROCKLAND MA 02370

	Durodyne S-2 Duct Sealer, NP-2053, D618, Cain Better Butter Applied to Inorganic Reinforced Cement Board
Flame spread	10
Smoke developed	0

Tested as applied in 2 in. wide strips 6 in. on center at a rate of 50 sq ft per gal.

Flash point of liquid adhesive, closed cup: less than 20 F.

	PF95, PF96, PF97 Applied to Inorganic Reinforced Cement Board
Flame spread	15
Smoke developed	0

Tested as applied at a coverage of 450 sq ft per gal.

Flash point of liquid adhesive, closed cup: below -10 C (14 F).

	NP1617, PF92, Tuff Bond No. 7, Cain Safe Bond, PF112, NP1615, Cain Hydro Clear, Cain Hydro Black, PF101, 8061, PF102, NP2022, NP2017, PF111 Applied to Inorganic Reinforced Cement Board
Flame spread	10
Smoke developed	0

Tested as applied at a coverage of 450 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

	NP1605, MA85, NP1825, LA76, 7951W Applied to Inorganic Reinforced Cement Board
Flame spread	10
Smoke developed	0

Tested as applied at a coverage of 200 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

	NP1582 (L4000), 2851, 2070 (L4004) Applied to Inorganic Reinforced Cement Board
Flame spread	10
Smoke developed	0



Documents

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BUILDING MATERIALS (BHWV)

Adhesives (BJLZ)—Continued

Tested as applied at a coverage of 450 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

1787, SCS100, SCS-200
Applied to Inorganic
Reinforced Cement Board

Flame spread 0
Smoke developed 0

Tested as applied in one 2 in. wide strip 0.0032 in. thick. (Coverage: 11 percent of the exposed test sample area).

Flash point of liquid sealant, closed cup: no Flash to boiling.

1966 or SCS100
Applied to Inorganic
Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied in one 3 in. wide strip, at a coverage rate of 200 ft² / gal.

Flash point of liquid sealant, closed cup: no Flash to boiling.

D617 - 1882
Applied to Inorganic
Reinforced Cement Board +

Flame spread 0
Smoke developed 0

+Tested as applied in two 2 in. wide strips 6 in. O.C. at a coverage rate of 50 sq ft per gal.

Flash Point of liquid adhesive, closed cup: shall be less than 20 C (68 F) .

CB50-2080
Applied to Inorganic
Reinforced Cement Board +

Flame spread 20
Smoke developed 200

+Tested as applied in two coats at a total coverage rate of 25 sq ft per gal.

Flash Point of liquid coating, closed cup: no flash to boiling.

**CB17-2078, CB05-2050, CB06-2075,
CB07-2076, CB15-2051, CB16-2077**
Applied to Inorganic
Reinforced Cement Board +

Flame spread 25
Smoke developed 40-90

+Tested as applied in two coats at a total coverage rate of 17 sq ft per gal.

Flash Point of liquid coating, closed cup: no flash to boiling.

**CB50-2096, CB05-2090, CB06-2091,
CB07-2092, CB15-2093, CB16-2094, CB17-2095**
Applied to Inorganic
Reinforced Cement Board +

Flame spread 15
Smoke developed 40

+Tested as applied in two coats, at a total coverage rate of 17 sq ft / gal. A layer of No. 10 open weave glass cloth shall be embed into the wet tack coat in accordance with application instructions provided with the product. Flash Point of liquid coating, closed cup: No flash to boiling.

NP-2131
Applied to Inorganic
Reinforced Cement Board +

Flame spread 0
Smoke developed 0

+Tested as applied in one 1 in. wide strip at a coverage rate of 55 sq ft per gal.

PF501, PF502
Applied to Inorganic
Reinforced Cement Board +

Flame spread 0
Smoke developed 0

+Tested as applied at a coverage rate of 500 sq ft per gal.

Flash point of finished adhesive (closed cup) 95 degrees F.

BUILDING MATERIALS (BHWV)

15

Adhesives (BJLZ)—Continued

NP2105/L5000
Applied to Inorganic
Reinforced Cement Board +

Flame spread 0
Smoke developed 0

+Tested as applied at a coverage rate of 500 sq ft per gal.

Con-Bond 2960
Applied to Inorganic
Reinforced Cement Board

Flame spread 0
Smoke developed 0

Tested as applied at a coverage rate of 325 sq ft per gal.

Flash point of finished adhesive, (closed cup): Less than 20 degrees F.

71X1257
Applied to Inorganic
Reinforced Cement Board

Flame spread 15
Smoke developed 5

Tested as applied at a coverage rate of 1700 sq ft per gal.

Flash point of finished adhesive, (closed cup): No flash to boiling.

Miracle PF-701
Applied to Inorganic
Reinforced Cement Board

Flame spread 0
Smoke developed 0

Tested as applied at a coverage rate of 480 sq. ft. per gal.

Flash point of liquid adhesive closed cup: No Flash to boiling.

11-376 Super-Seal Duct Sealant
Applied to Inorganic
Reinforced Cement Board

Flame spread 0
Smoke developed 5

Tested as applied in a single 2 in. wide strip at a coverage rate of 85 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Ultratack Insulating Adhesive
Applied to Inorganic
Reinforced Cement Board

Flame spread 5
Smoke developed 5

Tested as applied at a coverage rate of 600 sq. ft. per. gal.

ITW TACC

R6891

56 AIR STATION INDUSTRIAL PARK, ROCKLAND MA 02370

Kingco 15-146
Applied to Inorganic
Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage rate of 500 sq ft per gal. Flash point of liquid adhesive, closed cup: less than minus 20 F.

Kingco 11-400
Applied to Inorganic
Reinforced Cement Board

Flame spread 5
Smoke developed 0

Tested as applied at a coverage rate of 480 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Kingco 15-325
Applied to Inorganic
Reinforced Cement Board

Flame spread 0
Smoke developed 0

Tested as applied in three 3 in. wide strips, 8 in. apart at a coverage rate of 200 sq ft per gal.

Flash point of liquid adhesive, closed cup: less than 20 F.

Adhesives (BJLZ)—Continued

	Kingco 15-N-156
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 400 sq ft per gal.
Flash point of liquid adhesive, closed cup: less than minus 20 C.

	Kingco 11-376
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	5
Smoke developed	0

Tested as applied in a 3 in. wide strip, at a coverage rate of 200 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

	Kingco 11-375 or Kingco 11-500
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	5
Smoke developed	5

Tested as applied at a coverage rate of 80 sq ft per gal.
Flash point of liquid adhesive, closed cup: no flash to boiling.

	M-595, Ultratack Duct Liner
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	5
Smoke developed	5

Tested as applied at a coverage rate of 600 sq ft per gal.
Flash point of liquid adhesive, closed cup: No flash to boiling.

	Kingco 11-510
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	0
Smoke developed	5

Tested as applied in a 3 in. wide strip, at a coverage rate of 80 sq ft per gal.

Flash point of liquid adhesive, closed cup: No flash to boiling.

	Kingco 11-700
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	0
Smoke developed	0

Tested as applied at a coverage rate of 480 sq. ft. per gal.
Flash point of liquid adhesive closed cup: No Flash to boiling.

	Kingco PF-96/97
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	15
Smoke developed	0

Tested as applied at a coverage of 450 sq ft per gal.
Flash point of liquid adhesive, closed cup: below -10 C (14 F).

	Kingco M970 or ULTRASEAL GREEN
	Applied to Inorganic
	Reinforced Cement Board
Flame spread	0
Smoke developed	0

Tested as applied in a 2 in. wide strip, at a coverage rate of 125 sq ft per gal.

JOHNS MANVILLE INTERNATIONAL INC R8894

MOUNTAIN TECHNICAL CENTER, LITTLETON CO 80162

	Applied to Inorganic
	Reinforced Cement Board
Flame spread	5
Smoke developed	0

Tested as applied at a coverage rate of 750 sq ft per gal.
Flash point of finished adhesive (closed cup) no flash to boiling.

Adhesives (BJLZ)—Continued

MARATHON INDUSTRIES INC, SUB OF EAGLE-BRIDGES R5896

CO INC

HWY 49 W PO BOX 496, BYRON GA 31008

Flame spread	10
Smoke developed	0

Tested as applied in a 2 in. wide strip, at a coverage rate of 25 sq ft per gal.

Flash point of liquid adhesive, closed cup: below 20 F.

Flame spread	10
Smoke developed	0

Tested as applied in a 2 in. wide strip, at a coverage rate of 25 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 200 sq ft per gal.
Flash point of liquid adhesive, closed cup: below 20 F.

Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 25 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 400 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Flame spread	15
Smoke developed	0

Tested as applied at a coverage rate of 400 sq ft.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 250 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

Flame spread	10
Smoke developed	0

Tested as applied at a coverage rate of 250 sq ft per gal.

Flash point of liquid adhesive, closed cup: below -4F.

Flame spread	15
Smoke developed	0

Tested as applied at a coverage rate of 680 sq ft per gal.

Flash point of liquid adhesive, closed cup: no flash to boiling.

MOMENTIVE PERFORMANCE MATERIALS R8388

260 HUDSON RIVER RD, WATERFORD NY 12188

	Applied to Inorganic
	Reinforced Cement Board +
Flame spread	15
Smoke developed	200

+Tested as applied in 1/2 in. wide strips, 3 in. OC at a rate of 38.5 sq ft per gal. Flash point of finished adhesive (closed cup), 160 F.

	Applied to Inorganic
	Reinforced Cement Board +
Flame spread	10
Smoke developed	70

+Tested as applied in 1/2 in. wide strips, 3 in. OC at a rate of 38.5 sq ft per gal. Flash point of finished adhesive (closed cup), 150 F.

	Applied to Inorganic
	Reinforced Cement Board +
Flame spread	20
Smoke developed	250

+Tested as applied in 1/2 in. wide strips, 3 in. OC at a rate of 38.5 sq ft per gal. Flash point of finished adhesive (closed cup), 240 F.

BUILDING MATERIALS (BHWV)

Adhesives (BJLZ)—Continued

MON-ECO INDUSTRIES INC **R10070**
5 JOANNA CT, EAST BRUNSWICK NJ 08816**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied at a rate of 100 sq ft per gal.
Flash point of finished adhesive (Closed cup), 56 C .**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied at a rate of 300 sq ft per gal.
Flash point of finished adhesive (closed cup), less than -20 C.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied at a rate of 200 sq ft per gal.
Flash point of finished adhesive (closed cup), less than -20 C.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 15
Smoke developed 0+Tested as applied at a rate of 400 sq ft per gal.
Flash point of finished adhesive (Closed cup), less than -20 C.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied at a rate of 200 sq ft per gal.
Flash point of finished adhesive: Not applicable.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied at a rate of 300 sq ft per gal.
Flash point of finished adhesive (closed cup), 56 C .**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 0+Tested as applied in 3/8 in. wide beads, 12 in. on center, at a rate of 30 sq ft per gal.
Flash point of finished adhesive (closed cup), less than -20 C.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 0+Tested as applied in 2 in. wide strips, 8 in. on center, at a rate of 45 sq ft per gal.
Flash point of finished adhesive (closed cup), below -10 F.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 0+Tested as applied in two 2 in. wide strips, 8 in. on center, at a rate of 50 sq ft per gal.
Flash point of finished adhesive (closed cup), no flash to boiling.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 0+Tested as applied at a rate of 300 sq ft per gal.
Flash point of finished adhesive (closed cup), 94 F .

BUILDING MATERIALS (BHWV)

17

Adhesives (BJLZ)—Continued

**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 5

+Tested as applied in two 3 in. wide strips, 8 in. OC, at a rate of 35 sq ft per gal.

Flash point of finished adhesive (closed cup), no flash to boiling.

**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 0+Tested as applied at a rate of 100 sq ft per gal.
Flash point of finished adhesive (closed cup), no flash to boiling.**N B HANDY CO** **R14481**
PO BOX 11258, LYNCHBURG VA 24506**N.B. HANDY DUCT SEALER****Applied to Inorganic
Reinforced Cement
Board 7133** **Applied to 18-gauge
galvanized steel+**Flame spread 0
Smoke developed 0

+Tested as applied in one 2 in. wide strip, 0.011 in. thick (Coverage: 11 percent of the exposed test sample area).

**Applied to Inorganic
Reinforced Cement
Board+ 7139** **Applied to 18-gauge
galvanized steel+**Flame spread 0
Smoke developed 0

+Tested as applied in one 2 in. wide strip, 0.040 in. thick (Coverage: 11 percent of the exposed test sample area). Flash point of finished adhesive (closed cup) less than 20 C.

**PRECISION ADHESIVES, DIV OF ADHESIVES &
CHEMICALS INC** **R9115**
51 WASHINGTON ST PO BOX 910, PERTH AMBOY NJ 08861**Applied to Inorganic
Reinforced Cement Board +**Flame spread 5
Smoke developed 5+Tested as applied in a 3 in. wide strip at a coverage of 26 sq ft per gal.
Flash point: Not determinable.**Applied to Inorganic
Reinforced Cement Board +**Flame spread 10
Smoke developed 0+Tested as applied in 3 two in. wide strips, 8 in. on center, at a coverage rate of 450 sq ft per gal.
Flash point if finished adhesive (closed cup), -20 C.**SAMHWA CHEMICALS CO LTD** **R22313**
110-1 SUKOK-RI JKISAN-UP, CHEONAN-SHI, CHUNGNAM
330-813 REPUBLIC OF KOREA**Applied to Inorganic
Reinforced Cement Board
85-20 Spark-Fas**Flame spread 15
Smoke developed 0

Tested as applied at a coverage of 200 sq ft per gal.

STEPAN CO **R17113**
22 FRONTAGE RD, NORTHFIELD IL 60093Foamed plastic adhesive intended for field application.
Finished foamed plastic adhesive formed from Mondur MR, Mondur MRS-4, Mondur MRS-5, Mondur MR Light, Paper 2000, and Luprenate M-20 isocyanate component and STEPANFOAM® RS9742 or STEPANFOAM AD-2200 resin component.

Adhesives (BJLZ)–Continued

	Applied to Inorganic Reinforced Cement Board
Flame spread	5 – 20
Smoke developed	0 - 35

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum self-ignition temperature: 914°F.

Minimum flash-ignition temperature: 698°F.

TECHNO ADHESIVES CO **R6239**
12113 MOSTELLER RD, CINCINNATI OH 45241

	Applied to Inorganic Reinforced Cement Board
Flame spread	10
Smoke developed	0

Tested as applied at a coverage of 450 sq ft per gal.

Flash point of liquid adhesive (closed cup), less than -20 C (-45 F).

THE DOW CHEMICAL CO **R6986**

SPF PRODUCTS 1605 JOESPH DR, MIDLAND MI 48674

Foamed plastic adhesive intended for field application.

Also examined for ignition properties in accordance with ASTM D1929.

**FINISHED FOAM PLASTIC ADHESIVE FORMED
FROM "FAST® 100-P" ISOCYANATE COMPONENT AND
"FAST® 100-P" RESIN COMPONENT**

	Applied to Inorganic Reinforced Cement Board +
Flame Spread	10
Smoke Developed	10

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum self-ignition temperature: 896 F.

**FINISHED FOAM PLASTIC ADHESIVE FORMED
FROM "FAST® 102" ISOCYANATE COMPONENT AND
"FAST® 102" RESIN COMPONENT**

	Applied to Inorganic Reinforced Cement Board +
Flame Spread	5
Smoke Developed	10

When examined for ignition properties in accordance with ASTM D1929, the following were determined:

Minimum self-ignition temperature: 860 F.

Minimum flash-ignition temperature: 752 F.

THE DOW CHEMICAL CO **R18231**

SPU PRODUCTS 1605 JOESPH DR, MIDLAND MI 48674

	Applied to Inorganic Reinforced Cement Board +
Flame spread	20
Smoke developed	20

+Tested as applied in three 3/4 in. diameter beads 5 in. on center covering 12.5 percent of the exposed test sample area.

	Tile-Bond Applied to Inorganic Reinforced Cement Board +
Flame spread	20
Smoke developed	35

+Tested as applied in three 3/4 in. diameter beads 5 in. on center covering 12.5 percent of the exposed test sample area.

When examined for ignition properties in accordance with ASTM D1929 the following were determined:

The minimum flash ignition temperature: 420°C (804°F).

The minimum self-ignition temperature: 510°C (950°F).

UNITED MCGILL CORP **R5966**

2400 FAIRWOOD AVE, COLUMBUS OH 43207

	Applied to Inorganic Reinforced Cement Board	Applied to 20 Gauge Galv Steel
Flame spread	0	0

Adhesives (BJLZ)–Continued

	Applied to Inorganic Reinforced Cement Board	Applied to 20 Gauge Galv Steel
Smoke developed	0	0

Tested as applied in two 1/8 inch diameter beads, 8 inches on center. (Coverage: 1.4 percent of the exposed test sample area.)

Flash point of finished adhesive (closed cup), 28 F.

	Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	5
Smoke developed	0	5

+Tested as applied in one 2 in. wide strip (A) 0.02 in. thick, (B) 0.040 in. thick. (Coverage: 11 percent of the exposed test sample area.)

	UNITED DUCT SEALER MASTIC Applied to Inorganic Reinforced Cement Board	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip, 0.010 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than -20 C.

	3155 DUCT SEALER Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	10
Smoke developed	0	10

+Tested as applied in one 2 in. wide strip (A) 0.040 in. thick, (B) 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than -20 C.

	UNI-GASKET FLANGE SEALER Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	5
Smoke developed	0	5

+Tested as applied in one 2 in. wide strip 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) 7 C.

	UNITED DUCT SEALER (WATER BASE) Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip (A) 0.011 in. thick, (B) 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area.)

	UNI-GRAB DUCT SEALER Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	5	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip (A) 0.550 in. thick, (B) 0.011 in. thick. (Coverage: 11 percent of the exposed test sample area.)

	UNI-WELD METAL CEMENT Applied to Inorganic Reinforced Cement Board+	Applied to 18-gauge galvanized steel+
	A	B
Flame spread	0	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip (A) 0.550 in. thick, (B) 0.011 in. thick. (Coverage: 11 percent of the exposed test sample area.) Flash point of finished adhesive (closed cup) less than -20 C.



Documents

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BUILDING MATERIALS (BHWV)

Adhesives (BJLZ)—Continued

	UNI-CAST ADHESIVE	
	Applied to Inorganic Reinforced Cement Board	Applied to 18-gauge galvanized steel+
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in one 2 in. wide strip, 0.006 in. thick. (Coverage: 11 percent of the exposed test sample area).

SEAL-N-SAVE DUCT SEALER, UNI-MASTIC DUCT SEALER, UNI-FLEX II DUCT SEALER OR UNI-MASTIC 181 DUCT SEALER

	Applied to Inorganic Reinforced Cement Board+		Applied to No. 18-gauge galvanized steel+	
	A	B	A	B
Flame spread	5	5	5	5
Smoke developed	0	0	0	0

+Tested as applied in one 2 in. wide strip, (A) 0.011 in. thick, (B) 0.0055 in. thick. (Coverage: 11 percent of the exposed test sample area).

UNITACK DUCT LINER ADHESIVE

	Applied to Inorganic Reinforced Cement Board+	
	A	B
Flame spread	0	5
Smoke developed	0	0

UNI-TRIM ADHESIVE

	Applied to Inorganic Reinforced Cement Board+	
	A	B
Flame spread	5	5
Smoke developed	0	0

+Tested as applied in one 2 in. wide stripe, 0.0055 in. thick, (Coverage: 11 percent of the exposed test sample area).

UNI-WEATHER ALL WEATHER DUCT SEALER

	Applied to Inorganic Reinforced Cement Board+		Applied to 18-gauge galvanized steel+	
	A	B	A	B
Flame spread	5	0	5	5
Smoke developed	0	0	0	5

+Tested as applied in one 2 in. wide strip (A) 0.010 in. thick, (B) 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area). Flash point of finished adhesive (closed cup) below 0 F.

UNI-FLEX DUCT SEALER

	Applied to Inorganic Reinforced Cement Board+		Applied to 18-gauge galvanized steel+	
	A	B	A	B
Flame spread	0	0	0	0
Smoke developed	0	0	0	5

+Tested as applied in one 2 in. wide strip (A) 0.010 in. thick, (B) 0.020 in. thick. (Coverage: 11 percent of the exposed test sample area). Flash point of finished adhesive (closed cup) greater than 200 F.

WARD INDUSTRIES, DIV OF HART & COOLEY INC **R16209**
4910 MOORES MILL RD, HUNTSVILLE AL 35811

	Applied to Inorganic Reinforced Cement Board		Applied to Steel Ward Solvent Based Duct Sealer	
	A	B	A	B
Flame spread	15	20	15	20
Smoke developed	0	15	0	15

Tested as applied in a 2 in. wide strip at a coverage of 26.7 sq ft per gal. Flash point of finished adhesives (closed cup) less than 30 F respectively.

Applied to Inorganic Reinforced Cement Board Ward Roller Type Adhesive

	A	B
Flame spread	0	0
Smoke developed	0	0

Tested as applied at a coverage of 200 sq ft per gal. Flash point of finished adhesives (closed cup) no flash to boiling.

BUILDING MATERIALS (BHWV)

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Adhesives (BJLZ)—Continued

	Applied to Inorganic Reinforced Cement Board+ Ward Water Based Duct Sealer	
	A	B
Flame spread	5	5
Smoke developed	0	0

+Tested as applied in a 2 in. wide strip at a coverage rate of 25.0 sq ft per gal.

Applied to Inorganic Reinforced Cement Board+ Ward Water Based Duct Sealer No-Fibrated

	A	B
Flame spread	0	0
Smoke developed	0	0

+Tested as applied in a 2 in. wide strip at a coverage rate of 45 sq ft per gal.

Applied to Inorganic Reinforced Cement Board Ward Spray Type Adhesive

	A	B
Flame spread	5	5
Smoke developed	0	0

Tested as applied at a coverage of 400 sq ft per gal.

Batts and Blankets (BKNV)

GENERAL

This category covers batts and blankets for building insulation Classified as to surface burning characteristics as given in the individual Classifications.

During the testing of certain thermoplastic materials recurring burning of molten material may occur on the furnace floor, as well as in the ceiling position. Where indicated in the individual Classifications for these particular thermoplastic materials, a supplemental statement is provided that distinguishes flame spread and smoke developed values for the ceiling and floor positions.

Some batts and blankets are provided with facings that may affect the contribution of combustibles under fire conditions. This effect is determined by testing the sample with a longitudinal butt joint, constructed by slitting the facings or by using a factory or field joint (if applicable). Materials that do not have sufficient rigidity to support themselves in the tests are supported with metal rods or bars.

In some cases, products are Classified under the designation "FHC 25/50." This denotes that these products have flame spread values of 25 or less and smoke developed values of 50 or less.

The thermal conductivity, vapor resistance, toxicity of the products of combustion, and other properties have not been investigated.

The Classifications are confined to the materials themselves and do not pertain to the structures in which the materials are installed.

Authorities Having Jurisdiction should be consulted before installation.

RELATED PRODUCTS

For the fire-resistance rating of these products, see Batts and Blankets (BJJZ).

ADDITIONAL INFORMATION

For additional information, see Surface Burning Characteristics (BIKT) and Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 723, "Test for Surface Burning Characteristics of Building Materials."

In addition to the surface burning characteristics, where indicated in the individual Classifications, unfaced batts and blankets have also been Classified in accordance with ANSI/ASTM E136 (2011), "Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C."

UL MARK

The Classification Mark of UL on the product or package of products is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

* BATTS AND BLANKETS SURFACE BURNING CHARACTERISTICS

+

Issue No.

* UNFACED, FACED or PROCESSED

+ Flame spread and smoke developed values of the designation FHC 25/50" applicable to the product



Documents

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Batts and Blankets (BKNV)—Continued

UNFACED BATTS AND BLANKETS
SURFACE BURNING CHARACTERISTICS

++

Issue No.

++ Flame spread and smoke developed values or the designation "FHC 25/50" applicable to the product and the following statement: **ALSO CLASSIFIED IN ACCORDANCE WITH ASTM E136 STANDARD TEST METHOD FOR BEHAVIOR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C**

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A P GREEN INDUSTRIES INC

R12256

6471 HWY 69 SOUTH, PRYOR OK 74361-4487

Ceramic fiber blankets without facing.

Flame spread	0
Smoke developed	0

ALL WEATHER INSULATION CO L L C

R13225

19 W INDUSTRY DR, SPRINGFIELD KY 40069

Glass fiber blankets with facings.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for Flame spread and Smoke developed:

Foil-Fabric Faced Blankets.
Foil-Scrim-Kraft Faced Blankets.
Coated Foil-Scrim-Kraft Faced Blankets.
Foil Faced Blankets.
Vinyl-Scrim-Foil Faced Blankets.
Vinyl Faced Blankets.
Vinyl-Scrim-Metalized-Polyester Faced Blankets.
Vinyl-Scrim-Polyester Faced Blankets.
Polyester-Scrim-Kraft Faced Blankets.
Polypropylene-Fabric Faced Blankets.
Polypropylene-Scrim-Kraft Faced Blankets.
Polypropylene-Scrim-Foil Faced Blankets.
Polypropylene-Scrim-Polyester Faced Blankets.
Polypropylene-Scrim-Kraft-Polyester Faced Blankets.
Polyethylene-Scrim-Metalized Polyester Faced Blankets.
Polypropylene-Scrim -Metalized Polyester Faced Blankets.

ANCO PRODUCTS INC

R9112

2500 S 17TH ST, ELKHART IN 46517

Textile fiber batts and blankets or without facings on one side.

The following products are eligible to bear a Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of individual Surface Burning Characteristics values for flame spread and smoke developed:

Unfaced Blankets
Neoprene Coated Blankets
Foil-Scrim-Kraft Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Aluminum Foil Faced Blankets
Vinyl Film Faced Blankets
Polyester-Scrim-Foil Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Mat Faced Blanket
Polyester-Scrim-Kraft Faced Blankets
Foil-Fabric Faced Blankets.
Polypropylene-Fabric Faced Blankets.
Polypropylene-Scrim-Kraft-Polyester Faced Blankets.
Coated Foil-Kraft-Scrim-Metalized Polyester Faced Blankets.

	Vinyl-Reinforced Polyester Faced	Vinyl Film Facing
Flame spread	45	30

Batts and Blankets (BKNV)—Continued

**Vinyl-Reinforced
Polyester Faced****Vinyl Film
Facing**

Smoke developed

60

45

API CONSTRUCTION CO

R13925

1238 GREY FOX RD, ARDEN HILLS MN 55112

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual surface burning characteristics values for flame spread and smoke developed:

Foil-scrim-kraft faced blankets.
Vinyl-scrim-foil faced blankets.
Polyester-scrim-foil faced blankets.
Polypropylene-scrim-foil faced blankets.
Vinyl-scrim-polyester faced blankets.
Polypropylene-scrim-polyester faced blankets.
Polypropylene-scrim-kraft faced blankets.
Vinyl-scrim-metallized polyester faced blankets.
Metallized polyester-scrim-kraft faced blankets.
Metallized polypropylene-scrim-kraft faced blankets.
Polyester-scrim-kraft faced blankets.
Vinyl faced blankets.
Aluminum foil faced blankets.

BAY INDUSTRIES INC

R11478

2929 WALKER DR PO BOX 9229, GREEN BAY WI 54308

Glass fiber batts and blankets with or without facings. The faced batts and blanket material utilize a formulated polyvinyl emulsion adhesive, when laminating the facing to the fiberglass insulation.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics value for flame spread and smoke developed.

Aluminum Foil Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Vinyl Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polyester-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft-Polyester Faced Blankets
Foil-Fabric Faced Blankets
Polypropylene-Fabric Faced Blankets
Coated Foil-Kraft-Scrim-MettalizedPolyester Faced Blankets

BGF INDUSTRIES INC

R11184

3802 ROBERT PORCHER WAY, GREENSBORO NC 27410

Glass fiber insulation formed into blankets with or without foil facing.

Flame Spread	0
Smoke Developed	0

BUCKLEY INDUSTRIES INC

R5034

1850 E 53RD N, WICHITA KS 67219

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Faced Blankets
Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Kraft-Polyester Faced Blankets
Polypropylene-Scrim-Kraft-Foil Faced Blankets
Foil-Scrim-Kraft Faced and Unfaced Blankets Applied to Steel Decking
Polypropylene-Fabric Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets



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BUILDING MATERIALS (BHWV)

Batts and Blankets (BKNV)–Continued

Foil-Fabric Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Metallized Polyester Faced Blankets

CELLULOSE MATERIAL SOLUTIONS R26300

2472 PORT SHELTON RD, JENISON MI 49428

Cellulosic fiber batt insulation designated "ECOCCELL" formed into blankets.

Flame spread	15
Smoke developed	95 - 170

CERTAINTED CORP R5832

INSULATION GROUP PO BOX 860, VALLEY FORGE PA 19482

Glass fiber blankets with and without facings.

	Foil-Scrim-Kraft Faced Type II	Fabric Reinforced Vinyl Facing	Rotary Basic Blanket
Flame spread	30	25	5
Smoke developed	50	60	0

Organic fiber blankets without facing or coating.

	Treated	Untreated
Flame spread	20	45
Smoke developed	10	5

Glass fiber batts and blankets with and without coatings and facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Unfaced Blankets
Coated Blankets
Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Foil-Scrim-Kraft-Faced Blankets
Vinyl-Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Mat Faced Blankets
Hard-Faced Blankets
Polyester-Scrim-Kraft Faced Blankets
Foil-Kraft Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft-Polyester Faced Blankets

CGI/SILVERCOTE INC R7820

29200 FOUNTAIN PKY, SOLON OH 44139

Glass-fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Vinyl Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Polyester-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft-Polyester Faced Blankets
Vinyl-Scrim-Metallized Polyester Faced Blankets
Metallized Polyester-Scrim-Kraft Faced Blankets
Vinyl-scrim-vinyl faced blankets

CTA ACOUSTICS INC R25687

100 CTA BLVD, CORBIN KY 40701

Nonwoven mat faced batt and blanket designated Therma Blend.

	Mat faced	Unfaced
Flame spread	25	0
Smoke developed	25	0

BUILDING MATERIALS (BHWV)

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Batts and Blankets (BKNV)–Continued

DICOR/HERLEO CORP R8929

5033 SOUTHWEST AVE, ST LOUIS MO 63110

Glass fiber batts and blankets without facings.

Unfaced Batts or Blankets

Flame spread	20	15
Smoke developed	20	0

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Basic blanket
Foil-Scrim-Kraft

DISPRO INC R18984

10280 BOUL RAY LAWSON, ANJOU, QC H1J 1L8 CANADA

Glass fiber batts and blankets with facings. The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Aluminum Foil Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets

E J DAVIS CO R5388

DEFECO INDUSTRIAL PARK 10 DODGE AVE, NORTH HAVEN CT 06473

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Vinyl Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Vinyl-Scrim-Vinyl Faced Blankets
Polypropylene-Scrim-Kraft-Polyester Faced Blankets
Foil-Fabric Faced Blankets
Polypropylene-Fabric Faced Blankets

FABRICATING SERVICES INC R14170

4141 GETWELL RD, MEMPHIS TN 38118

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual surface burning characteristics value for flame spread and smoke developed:

Coated-Foil-Scrim-Kraft Faced Blankets.
Coated-Scrim-Film Faced Blankets.
Foil Faced Blankets.
Foil-Scrim-Kraft Faced Blankets.
Glass fiber blankets without facings.
Metallized / Nonmetallized Polypropylene-Scrim-Kraft Faced Blankets.
Metallized Polyester-Scrim-Kraft Faced Blankets.
Polyester-Scrim-Kraft Faced Blankets.
Polyethylene Faced Blankets.
Polypropylene-Scrim-Foil Faced Blankets.
Polypropylene-Scrim-Kraft Faced Blankets.
Polypropylene-Scrim-Kraft-Polyester Faced Blankets.
Polypropylene-Scrim-Polyester Faced Blankets.
Unfaced blankets.
Vinyl Faced Blankets.
Vinyl-Scrim-Foil Faced Blankets.
Vinyl-Scrim-Polyester Faced Blankets.
Vinyl-Scrim-Vinyl Faced Blankets.

FABRICATION SPECIALTIES R10457

8301 S 77TH AVE, BRIDGEVIEW IL 60455

Glass fiber blankets with or without facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed.

Coated Blankets.



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Batts and Blankets (BKNV)–Continued

Faced Blankets.
 Unfaced Blankets.
 Foil Faced Blankets.
 Foil-Scrim-Kraft Faced Blankets.
 Coated Foil-Scrim-Kraft Faced Blankets.
 Vinyl Faced Blankets.
 Vinyl-Scrim-Foil Faced Blankets.
 Vinyl-Scrim-Polyester Faced Blankets.
 Polypropylene-Scrim-Kraft Faced Blankets.
 Polypropylene-Scrim-Foil Faced Blankets.
 Polyester-Scrim-Kraft Faced Blankets.

FIBERGLASS COLOMBIA S A**R25157**

CARRERA 9A, #80-12 APARTADO AEREO 91932, BOGOTA, DE COLOMBIA

Glass fiber blankets with and without facings.

The following products are eligible to bear a Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of individual Surface Burning characteristics values for flame spread and smoke developed:

Unfaced Blanket
 Foil-Scrim-Kraft Faced Blanket
 Mat Faced Blanket

GLASRITE INC**R9586**

6790 E 32ND ST, INDIANAPOLIS IN 46226

Glass fiber batts or blankets with or without facings.

The following products are eligible to bear the UL Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Aluminum Foil Faced Blankets
 Coated Blankets
 Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Unfaced Blankets
 Vinyl-Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Fabric Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Foil-Fabric Faced Blankets

	Vinyl-Scrim-Polyester Faced Blanket	Vinyl Faced Blanket
Flame spread	35	25
Smoke developed	65	60

GRUPO INDUSTRIAL MORGAN S A DE C V**R15002**

FRACCIONAMIENTO INDUSTRIAL LA PAZ CERRADA DE LA PAZ 101 42092, PACHUCA, HGO MEXICO

Ceramic fiber insulation formed into blankets.

Flame Spread	0
Smoke Developed	0

Ceramic fiber insulation designated "Fire Master Duct Wrap" formed into blankets.

Flame Spread	5
Smoke Developed	5

GUARDIAN FIBERGLASS INC**R9602**

1000 E NORTH ST, ALBION MI 49224

Glass fiber batts and blankets with and without facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Unfaced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl Faced Blankets
 Polyester-Scrim-Foil Faced Blankets

Batts and Blankets (BKNV)–Continued

Aluminum Foil Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets.
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets.
 Polypropylene-Scrim-Polyester Faced Blankets.

IIG MINWOOL L L C**R16989**

2100 LINE ST, BRUNSWICK GA 31520

Mineral fiber blankets without facing.

	Unfaced Blanket
Flame spread	5
Smoke developed	0

Unfaced batts and blankets also Classified in accordance with ASTM E136, "Standard Test Method for the Behavior of Materials in a Vertical Tube Furnace at 750 degrees D".

INSUL-FAB, DIV OF CONCOTE CORP**R10907**

FREEPORT INDUSTRIAL EXCHANGE SUITE 150 600 FREEPORT PKY, COPPELL TX 75019

Glass fiber batts or blankets with or without facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FCH 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Coated Blankets.
 Unfaced Blankets.
 Foil-Scrim-Kraft Faced Blankets.
 Vinyl Faced Blankets.
 Aluminum Foil Faced Blankets.
 Polyester-Scrim-Kraft Faced Blankets.
 Polypropylene-Scrim-Kraft Faced Blankets.
 Foil-Polyester Faced Blankets.

J T JOHNSON CO INC**R8656**

7820 S 200TH ST, KENT WA 98032

Glass fiber blankets with facings on one surface.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values of Flame spread and Smoke developed:

Aluminum Foil Faced Blankets
 Foil-Kraft Faced Blankets
 Foil-Scrim-Krafts Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets

	Vinyl Film Facing	Vinyl Film Facing	Vinyl Film Facing	Vinyl Film Facing
Flame spread	25	30	20	20
Smoke developed	100-150	45	55-65	65-90

	Foil Scrim-Kraft Facing	Vinyl-Scrim Facing	Vinyl-Scrim Facing
Flame spread	30	25	45
Smoke developed	50	60	60

JOHNS MANVILLE INTERNATIONAL INC**R3711**

MOUNTAIN TECHNICAL CENTER, LITTLETON CO 80162

Glass fiber batts and blankets with and without coatings and facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Unfaced Blankets
 Coated Blankets
 Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft-Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Coated Mat Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Coated hard faced Blankets
 Hard-Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets



Documents

Document Sharing Hub

BUILDING MATERIALS (BHWV)

Batts and Blankets (BKNV)–Continued

Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Glass Mat Faced Blankets
 Polypropylene-Scrim-Foil Blankets
 Coated Scrim-Metallized Polypropylene Blankets
 Polypropylene-Scrim-Kraft-Foil Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Vinyl-Scrim-Metallized Polyester Faced Blankets
 Glass-Mat Faced Blankets
 Polyethylene Encapsulated Blankets
 Coated-Scrim-Film Blankets
 Reinforced-Vinyl Blankets
 Polyethylene-Scrim-Polyester Blankets
 Polypropylene-Scrim-Metallized Polyester Blankets
 Vinyl-Polyester Blankets
 Polyester/Rayon Mat Faced Blankets
 Foil-Polyester Blankets

KNAUF INSULATION GMBH**R8582****1 KNAUF DR, SHELBYVILLE IN 46176**

Glass fiber batts and blankets with and without coatings and facings.
 The following products are eligible to bear a Laboratories Classification Mark incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Unfaced Blankets
 Mat Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Knauf Textile Duct Liner EM

KUWAIT INSULATING MATERIAL MFG CO**R9703**

**(OFF WAEBA RD BEHIND MINA ABDULLAH POLICE STATION
 NEAR KIRBY BLDGS PLANT) PO BOX 24609, SAFAT KUWAIT**

Glass fiber batts and blankets with and without facings on one surface.
 The following products are eligible to bear the Laboratories Classification Mark incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed:

Unfaced Blankets
 Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Glass fiber batts and blankets with and without facings on one surface.

	Basic Blanket	Foil-Scrim Kraft Facing	Vinyl Film Facing	Aluminum Foil Facing
Flame spread	15	15	25	15
Smoke developed	0	0	80-105	0

L & L INSULATIONS**R5638****3305 SE DELAWARE PO BOX 489, ANKENY IA 50021**

Glass fiber batts and blankets with facings and coatings.
 The following products are eligible to bear the Laboratories Classification Mark incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Unfaced Blankets
 Coated Blankets
 Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Mat Faced / Foil-Scrim-Kraft Faced Blankets
 Glass fiber blankets with a facing on one surface
 Polypropylene-Scrim-Foil Faced Blankets.
 Vinyl-Reinforced-Vinyl Faced Blankets.

	Vinyl Film	Vinyl-Scrim Polyester Facing
Flame spread	30	45
Smoke developed	45	60

LYDALL ENGINEERED MATERIALS**R25734****68 GEORGE ST, TROY NY 12183**

BUILDING MATERIALS (BHWV)

23

Batts and Blankets (BKNV)–Continued

Glass fiber batts and blankets without a coating or facing.

Flame spread	0
Smoke developed	0

MORGANITE BRASIL LTDA**R14820**

**RUA DARCY PEREIRA 83 23565-190, RIO DE JANEIRO,
 RJ BRAZIL**

Ceramic fiber insulation formed into blankets.

Flame spread	0
Smoke developed	0

MURUGAPPA MORGAN THERMAL CERAMICS LTD**R14788**

**TIAM HOUSE ANNEXE, 3RD FL 28 RAJAJI SALAI PO BOX 1570,
 CHENNAI, TN 600001 INDIA**

Ceramic fiber insulation formed into blankets.

Flame Spread	0
Smoke Developed	0

OWENS CORNING MEXICO S DE R L DE C V**R13564**

**AVE ACUEDUCTO 459 COL ZACATENCO 07360, MEXICO,
 DF MEXICO**

Glass fiber batts and blankets with and without facings.

The following products are eligible to bear the laboratories classification mark incorporating the designation "FHC 25/50" instead of the individual surface burning characteristics values for flame spread and smoke developed:

Unfaced batts.
 Unfaced blankets.
 Polypropylene-scrim-kraft faced blankets.
 Foil-scrim-kraft faced blankets.
 Glass fiber / polyester mat faced batts.
 Coated mat faced blanket
 Mat faced blanket

OWENS CORNING**R3576****1 OWENS CORNING PKY, TOLEDO OH 43659**

Glass fiber batts and blankets with and without coating on one surface.

	Basic Blanket	Blanket Coated	Coated Mat Facing
Flame spread	20	25	20
Smoke developed	20	45	30

	Foil-Scrim Kraft Facing	Aluminum Foil Facing
Flame spread	25	25
Smoke developed	25	10

	Vinyl Film Facing	Vinyl Film Facing
Flame spread	25	20
Smoke developed	35	40

	Vinyl-Scrim Foil Facing	Vinyl Film Facing
Flame spread	25	25
Smoke developed	35	50

Note: Vinyl faced glass fiber units secured with pressure sensitive tapes in accordance with installation instructions accompanying the product.

	Vinyl Reinforced Polyester Facing
Flame spread	25
Smoke developed	50

Note: Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories' Classification Mark incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Aluminum Foil Faced Blankets

Batts and Blankets (BKNV)—Continued

Coated Foil-Scrim-Kraft Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Mat Faced Blankets
 Coated Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Metallized Polyester-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Metallized Polyester Faced Blankets
 Vinyl-Scrim-Vinyl Faced Blankets
 Coated Blankets Applied To Steel Panels
 Coated Mat Faced Blankets
 Unfaced Blankets
 Foil-Scrim-Kraft Faced Mat Blankets

PACIFIC INSULATED PANEL

R26318

BLDG A 6021 199TH ST, ARLINGTON WA 98223

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Foil-Scrim-Kraft-Faced Blankets
 Vinyl Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Polypropylene-Scrim-Metallized Polyester Blankets
 Polypropylene-Fabric Faced Blankets

PACOR INC

R18345

1924 CHESPAK DR, GASTONIA NC 28052

Glass fiber blankets with a facing on one surface.

	Vinyl Faced	Vinyl-Scrim Polyester Facing
Flame spread	30	45
Smoke developed	45	60

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed.

Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Foil Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Unfaced Blankets
 Coated Blankets
 Faced Blankets

PACOR INC

R7124

333 RISING SUN RD, BORDENTOWN NJ 08505

Glass fiber blankets with a facing on one surface.

	Vinyl Faced	Vinyl-Scrim Polyester Facing
Flame spread	30	45
Smoke developed	45	60

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for flame spread and smoke developed.

Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Foil Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Unfaced Blankets
 Coated Blankets

Batts and Blankets (BKNV)—Continued

Faced Blankets

PARAGON INDUSTRIES INC, DBA PARAGON PACIFIC INSULATION

R8312

#B 18270 SEGALE PARK DR, TUKWILA WA 98188

Glass fiber blankets with facings of coatings.

	Vinyl Film Facing	Vinyl-Scrim-Metallized-Polyester Facing
Flame spread	25	30
Smoke developed	65	15

The following products are eligible to bear a UL Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning characteristic values for Flame Spread and Smoke Developed:

Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Vinyl-Film Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Coated Scrim-Film Faced Blankets
 Coated Scrim-Film Metallized Polypropylene Faced Blankets
 Reinforced-Vinyl Faced Blankets
 Polyethylene-Scrim-Metallized Polyester Faced Blankets
 Polypropylene-Scrim-Metallized Polyester Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft-Foil Faced Blankets
 Vinyl-Scrim-Metallized-Polyester Faced Blankets
 Foil-Fabric Faced Blankets
 Polypropylene-Fabric Faced Blankets
 Metallized / Nonmetallized Polypropylene-Scrim-Kraft Faced Blankets
 Metallized Polyester-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Metallized Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polyester-Scrim-Foil Faced Blankets
 Coated / Uncoated Foil-Scrim-Kraft Faced Blankets

PBI SUPPLY INC

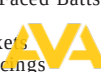
R14776

3951 LA REUNION PKY, DALLAS TX 75212

Glass fiber blankets with facing on one surface.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for Flame spread and Smoke developed:

Aluminum Foil Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Polyester Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polyester-Scrim-Foil Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polyester-Scrim-Polyester Faced Blankets
 Vinyl-Scrim-Metallized Polyester Faced Blankets
 Metallized Polyester-Scrim-Kraft Faced Blankets
 Metallized / Non Metallized Polypropylene-Scrim-Kraft Faced Batts and Blankets
 Vinyl Reinforced Metallized Polyester Faced Batts and Blankets
 Polypropylene-Scrim-Metallized Polyester Batts and Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Batts and Blankets
 Foil-Fabric Faced Batts and Blankets
 Polypropylene-Fabric Batts and Blankets
 Glass fiber batts and blankets with facings



Documents

Document Sharing Hub

BUILDING MATERIALS (BHWV)

Batts and Blankets (BKNV)–Continued

PERFORMANCE CONTRACTING INC, DBA TRIDENT DISTRIBUTION INC **R6919**

16400 COLLEGE BLVD, LENEXA KS 66219

Glass fiber blankets with a facing on one surface.

	Vinyl Faced Blanket
Flame spread	25
Smoke developed	60

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for Flame spread and Smoke developed:

Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Coated Scrim-Film Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Vinyl Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets
Vinyl-Scrim-Vinyl Faced Blankets
Polypropylene-Scrim-Foil Faced Blankets
Polypropylene-Scrim-Polyester Faced Blankets
Polypropylene-Scrim-Kraft Faced Blankets
Polypropylene-Scrim-Kraft Polyester Faced Blankets
Polyethylene-Scrim-Metallized Polyester Facing
Polypropylene-Scrim-Metallized Polyester Facing

PRESCOTECH INDUSTRIES INC **R7613**

3233 S ZERO ST, FT SMITH AR 72908

Glass fiber batts and blankets with facing on one surface.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for flame spread and smoke developed:

Aluminum Foil Faced Blankets
Coated Foil-Scrim-Kraft Faced Blankets
Foil-Scrim-Kraft Faced Blankets
Vinyl Faced Blankets
Vinyl-Scrim-Foil Faced Blankets
Vinyl-Scrim-Polyester Faced Blankets

PROMAT FIRETEMP L L C **R26941**

2100 LINE ST, BRUNSWICK GA 31520

Type MFB mineral wool batts with or without facings:

	Unfaced	Foil-Scrim-Plastic Faced
Flame Spread	15	25
Smoke Developed	0	0

PSC FABRICATING, DIV OF PSC CORP **R7426**

3001 W KENTUCKY ST PO BOX 11519, LOUISVILLE KY 40211

Glass fiber batts and blankets with and without coatings and facings.

The following products are eligible to bear a Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of individual Surface Burning Characteristics values for Flame spread and Smoke developed:

Unfaced Blankets.
Coated Blankets.
Aluminum Foil Faced Blankets.
Foil-Scrim-Kraft Faced Blankets.
Vinyl Faced Blankets.
Vinyl-Scrim-Foil Faced Blankets.
Vinyl-Scrim-Polyester Faced Blankets

	Vinyl-Scrim-Polyester Faced Blanket	Vinyl Faced Blanket
Flame spread	35	25
Smoke developed	65	60

QUIETFLEX MFG CO L P **R18831**

4518 BRITTMORE RD, HOUSTON TX 77041

Glass fiber blankets with and without facings.

BUILDING MATERIALS (BHWV)

25

Batts and Blankets (BKNV)–Continued

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristic values for Flame spread and Smoke developed.

Unfaced Blankets.
Foil-Scrim-Kraft Faced Blankets.
Foil Faced Blankets.
Vinyl-Scrim-Foil Faced Blankets.
Vinyl Faced Blankets.
Vinyl-Scrim-Polyester Faced Blankets.
Polyester-Scrim-Kraft Faced Blankets.
Polypropylene-Scrim-Kraft Faced Blankets.
Polypropylene-Scrim-Foil Faced Blankets.
Polypropylene-Scrim-Kraft-Polyester Faced Blankets.
Polyethylene-Scrim-Metallized Polyester Faced Blankets.
Polypropylene-Scrim-Metallized Polyester Faced Blankets.
Coated-Scrim-Film Faced Blankets.
Glass Mat Faced Blankets.
Vinyl-Scrim-Vinyl Faced Blankets.

ROCK WOOL MANUFACTURING CO **R11350**

203 7TH ST NE PO BOX 506, LEEDS AL 35094

Mineral wool blankets with and without facings.

	Unfaced Blanket	Foil-Scrim Polyethylene Faced Blanket
Flame Spread	0	0
Smoked Developed	0	0

S & S INDUSTRIES INC **R6140**

115 CLEMONS RD, MT JULIET TN 37122

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual values for flame spread and smoke developed:

Faced blankets
Unfaced blankets
Aluminum foil faced blankets
Foil-Scrim-Kraft faced blankets
Coated Foil-Scrim-Kraft faced blankets
Vinyl-Scrim-Foil faced blankets
Vinyl-Scrim-Polyester faced blankets
Vinyl faced blankets
Polypropylene-Scrim-Kraft faced blankets
Polyester-Scrim-Kraft faced blankets
Polypropylene-Scrim-Foil faced blankets
Polypropylene-Scrim-Kraft-Polyester faced blankets
Polyethylene-Scrim-Metallized Polyester
Polypropylene-Scrim-Metallized Polyester
Vinyl reinforced vinyl faced blankets
Coated Foil-Kraft-Scrim-Metallized Polyester faced blankets
Polyethylene faced blankets
Glass fiber blankets with facings
Neoprene or PVA spray-coated blankets
Vinyl-Scrim-Metallized Polyester Faced Blankets.
Polypropylene-Scrim-Polyester

	Vinyl Reinforced Polyester Facing
Flame spread	45
Smoke developed	60

	Vinyl Reinforced Polyester Facing	Vinyl Faced
Flame spread	35	25
Smoke developed	65	60

SCOTT MFG L L C **R7222**

1573 HWY 136 W, HENDERSON KY 42420

Glass fiber batts and blankets with or without facings or coatings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation "FHC 25/50" instead of the individual Surface Burning Characteristics values for Flame spread and Smoke developed:

Unfaced Blankets
Aluminum Foil Faced Blankets
Foil-Scrim-Kraft Faced Blankets

**Documents**

Document Sharing Hub

Batts and Blankets (BKNV)–Continued

Coated Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Neoprene Coated Blankets
 Vinyl Faced Blankets
 Neoprene Coated Glass Mat Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets.
 Polypropylene-Scrim-Kraft Faced Blanket.
 Vinyl-Reinforced-Vinyl Faced Blanket.
 Vinyl-Reinforced-Metallized Polyester Faced Blanket.
 Double Sided Foil-Scrim-Kraft Faced Blankets

SELLE SUPPLY CO

R6285

SUITE 200 5225 S LOOP 289, LUBBOCK TX 79424

Glass fiber blankets with facing on one surface.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation “FHC 25/50” instead of the individual Surface Burning Characteristic values for Flame spread and Smoke developed:

Aluminum Foil Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Polyester Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polyester-Scrim-Foil Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polyester-Scrim-Polyester Faced Blankets
 Vinyl-Scrim-Metallized Polyester faced Blankets
 Metallized Polyester-Scrim-Kraft Faced Blankets
 Metallized / Non Metallized Polypropylene-Scrim-Kraft Faced Batts and Blankets

Vinyl Reinforced Metallized Polyester Faced Batts and Blankets
 Polypropylene-Scrim-Metallized Polyester Batts and Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Batts and Blankets
 Foil-Fabric Faced Batts and Blankets
 Polypropylene-Fabric Batts and Blankets

SERVICE PARTNERS OF GEORGIA L L C

R18436

BLDG C 100 CLAY RD, VALDOSTA GA 31601

Glass fiber blankets with facings. The following products are eligible to bear the UL Classification Mark incorporating the designation “FHC25/50” instead of the individual Surface Burning Characteristic values for flame spread and smoke developed.

Vinyl faced blankets.
 Vinyl-Scrim-Metallized Polyester faced blankets.
 Vinyl-Scrim-Polyester faced blankets.
 Vinyl-Scrim-Foil faced blankets.
 Foil-Scrim-Kraft faced blankets.
 Polypropylene-Scrim-Kraft faced blankets.
 Polypropylene-Scrim-Polyester faced blankets.
 Polypropylene-Scrim-Foil faced blankets.
 Polypropylene-Scrim-Kraft-Polyester faced blankets.
 Aluminum-Foil faced blankets.
 Polyester-Scrim-Kraft faced blankets.
 Polypropylene-Fabric faced blankets.
 Foil-Fabric faced blankets.

SERVICE PARTNERS OF THE CAROLINAS L L C

R9814

135 DENVER BUSINESS PARK DR, MOORESVILLE NC 28115

Glass fiber blankets with facings. The following products are eligible to bear the UL Classification Mark incorporating the designation “FHC25/50” instead of the individual Surface Burning Characteristic values for flame spread and smoke developed.

Vinyl faced blankets.
 Foil-Scrim-Kraft faced blankets.
 Coated Foil-Scrim-Kraft faced blankets.
 Vinyl-Scrim-Foil faced blankets.
 Vinyl-Scrim-Polyester faced blankets.
 Polyethylene faced blankets.
 Polypropylene-Scrim-Kraft faced blankets.
 Polypropylene-Scrim-Foil faced blankets.
 Polypropylene-Scrim-Polyester faced blankets.
 Polypropylene-Scrim-Kraft-Polyester faced blankets.
 Aluminum-Foil faced blankets.
 Polyethylene-Scrim-metallized polyester faced blankets.
 Polypropylene-Scrim-metallized polyester faced blankets.

Batts and Blankets (BKNV)–Continued

SHANGHAI FLAT GLASS FACTORY

R25277

2201 KANGSHAN RD ZHOU PU NAN HUI DISTRICT 201318, SHANGHAI CHINA

Basic wool fiber blankets/boards.

Flame spread 0
 Smoke developed 0

The following products are eligible to bear the laboratories classification marking incorporating the designation “FHC 25/50” instead of the individual burning characteristics values for flame spread and smoke developed:

Basic wool fiber blankets/boards.

SOUNDTECH INC

R13774

3880 SOUNDTECH CT, KENTWOOD MI 49512

Glass fiber batts or blankets with or without facings.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation “FHC 25/50” instead of the individual Surface Burning Characteristics value for flame spread and smoke developed:

Coated Blankets
 Faced Blankets
 Unfaced Blankets
 Aluminum Foil Faced Blankets
 Foil-Scrim-Kraft Faced Blankets
 Coated Foil-Scrim-Kraft Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets

STATE LAMINATING CORP

R8685

525 JOHNSTONE ST, PERTH AMBOY NJ 08861

Glass fiber batts and blankets with facings on one side.

The following products are eligible to bear the Laboratories Classification Marking incorporating the designation “FHC25/50” instead of the individual Surface Burning Characteristics values for Flame spread and Smoke developed.

Foil-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Aluminum Foil Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polyester-Scrim-Foil Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Metallized Polyester-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Metallized-Polyester Faced Blankets
 Metallized / Nonmetallized Polypropylene-Scrim-Kraft Faced Blankets.
 Coated Scrim-Metallized Polypropylene Faced Blankets.
 Foil-Fabric Faced Blankets
 Polypropylene-Fabric Faced Blankets
 Polyethylene-Scrim-Metallized Polyester Faced Blankets
 Polypropylene-Scrim-Metallized Polyester Faced Blankets

TAYLOR-SEIDENBACH INC

R7204

731 S SCOTT ST, NEW ORLEANS LA 70119

Glass fiber batts and blankets with facings.

The following products are eligible to bear the Laboratories' Classification Marking incorporating the designation “FHC 25/50” instead of the individual Surface Burning Characteristics values for Flame spread and Smoke Developed:

Foil-Scrim-Kraft Faced Blankets.
 Vinyl-Scrim-Foil-Faced Blankets.
 Vinyl Faced Blankets.
 Polyester-Scrim-Kraft Faced Blankets.
 Polypropylene-Scrim-Kraft Faced Blankets.
 Polypropylene-Scrim-Foil Faced Blankets.
 Vinyl-Scrim-Polyester Faced Blankets.

THERM-ALL INC

R10981

31387 INDUSTRIAL PKY, NORTH OLMSTED OH 44070

Glass fiber blankets with a facing on one surface.

The following products are eligible to bear the UL Classification Marking incorporating the designation “FHC 25/50” instead of the individual Surface Burning

BUILDING MATERIALS (BHWV)

Batts and Blankets (BKNV)–Continued

Characteristic values for flame spread and smoke developed:

Foil-Scrim-Kraft Faced Blankets
 Vinyl Film Faced Blankets
 Vinyl-Scrim-Foil Faced Blankets
 Vinyl-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft Faced Blankets
 Polypropylene-Scrim-Polyester Faced Blankets
 Polypropylene-Scrim-Foil Faced Blankets
 Polyester-Scrim-Kraft Faced Blankets
 Vinyl-Scrim-Metallized-Polyester Faced Blankets
 Polypropylene-Scrim-Kraft-Polyester Faced Blankets
 Foil-Fabric Faced Blankets
 Polypropylene-Fabric Faced Blankets

**Vinyl-Scrim-Polyester
Faced Blanket**

Flame spread	30
Smoke developed	65

THERMAFIBER INC**R4643**

3711 W MILL ST EXT, WABASH IN 46992

Plain mineral wool batts.

Unwrapped

Flame spread	0
Smoke developed	0

Unfaced batts also Classified in accordance with ASTM E136, "Standard Test Method for the Behavior of Materials in a Vertical Tube Furnace at 750 degrees C".

Mineral wool batts with or without a facing.

**Foil-Scrim-Plastic
Faced**

Flame spread	25
Smoke developed	0

Basic mineral wool batts also Classified with ASTM E136, "Standard Test Method for the Behavior of Materials in a Vertical Tube Furnace at 750 degrees C".

THERMAL CERAMICS INC**R14229**

2102 OLD SAVANNAH RD, AUGUSTA GA 30906

Ceramic fiber insulation with or without facings designated "Kaowool RT" or "Cerablanket" or "Superwool 607" or "Superwool Plus" formed into blankets.

Flame spread	0
Smoke developed	0

Unfaced blankets or foil faced also Classified in accordance with ASTM E136-93, "Standard Test Method for the Behavior of Materials in a vertical tube furnace at 750 C"

Ceramic fiber insulation and Alkaline earth silicate wool insulation designated "FireMaster 607 Blanket" formed into blankets.

Flame spread	0
Smoke developed	0

Unfaced blankets or foil faced also Classified in accordance with ASTM E136-93, "Standard Test Method for the Behavior of Materials in a vertical tube furnace at 750 C"

Ceramic fiber insulation designated "Thermal Ceramics PlenumWrap+", "FireMaster FastWrap XL", "Pyroscat Duct Wrap XL" and FireMaster FastWrap+ formed into blankets.

Flame spread	15
Smoke developed	10

Unfaced blankets or foil faced also Classified in accordance with ASTM E136-93, "Standard Test Method for the Behavior of Materials in a vertical tube furnace at 750 C"

UNIFRAX I L L C**R14514**

2351 WHIRLPOOL ST, NIAGARA FALLS NY 14305

Basic ceramic fiber blankets.
 Basic inorganic fiber blankets.
 Foil faced blanket.

Flame Spread	0
Smoke Developed	0

BUILDING MATERIALS (BHWV)

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Batts and Blankets (BKNV)–Continued

The following products are eligible to bear the laboratories classification marking incorporating the designation "FHC 25/50" instead of the individual burning characteristics values for flame spread and smoke developed:

Polypropylene-Scrim-Foil encapsulated blanket designated "FyreWrap Elite 1.5 Duct Insulation", FyreWrap EZ 1.5 Duct Insulation, FyreWrap Max 2.0 Duct Insulation, FyreWrap 1.5 Duct Insulation and FyreWrap 0.5 Plenum Insulation".

Ceramic fiber insulation with or without facings designated FIRESTOP BLANKET, FLAMESHIELD or FSB Duct Insulation, formed into blankets.

Flame Spread	0
Smoke Developed	0

Ceramic fiber insulation formed into blankets.

Flame Spread	0
Smoke Developed	0

UNITED STATES MINERAL PRODUCTS CO, DBA**R16091****ISOLATEK INTERNATIONAL**

41 FURNACE ST, STANHOPE NJ 07874

Type CB mineral wool batts with or without facings:

Specie Type or Grade	Classification or Rating	
	Flame Spread	Smoke Developed
Unfaced	15	0
Foil-Scrim-Plastic Faced	25	0

Building Units (BLBT)**GENERAL**

This category covers building units, consisting of proprietary mixes of organic and/or inorganic materials formed into panels, blocks, boards, planks, slabs, or sheets fabricated into various sizes, thicknesses and shapes, Classified as to surface burning characteristics.

Some building units are provided with facings or are composites of several materials which may affect the contribution of combustibles under fire conditions. This effect is determined by testing the sample with a longitudinal butt joint, constructed by slitting the facing or by using a factory or field joint (if applicable).

For building units consisting of an interior core material faced on both surfaces, the Classification of the product includes the surface burning characteristics of the core material in addition to the surface burning characteristics of the finished product.

The Classifications are confined to the materials themselves and do not pertain to the structures in which the materials may be installed.

The insulating, acoustical, structural, toxicity of the products of combustion, and other properties have not been investigated.

Authorities Having Jurisdiction should be consulted before installation.

RELATED PRODUCTS

Building units containing electrical or mechanical equipment are covered under Prefabricated Buildings (QRAR) or Prefabricated Assemblies (QQRX).

For room fire test Classification of these products, see Building Units (OERQ).

For the fire resistance ratings of these products, see Building Units (BZXX).

ADDITIONAL INFORMATION

For additional information, see Surface Burning Characteristics (BIKT) and Building Materials (AABM).

REQUIREMENTS

The basic standard used to investigate products in this category is UL 723, "Test for Surface Burning Characteristics of Building Materials."

UL MARK

The Classification Mark of UL on the product or carton is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

FOR SURFACE BURNING CHARACTERISTICS SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Documents

Document Sharing Hub

Building Units (BLBT)–Continued

BUILDING UNITS
SURFACE BURNING CHARACTERISTICS

+

Control No.

+ Flame spread and smoke developed values applicable to the product

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

ADVANCE ENERGY TECHNOLOGIES INC R20407
1 SOLAR DR, CLIFTON PARK NY 12065

Panels consisting of foamed plastic core having metal skins on both sides.

	Core Material	4-6 in. Thick Painted or Unpainted Aluminum and Steel Finished Panel
Flame spread	20	25
Smoke developed	300	Over 500

AMERICAN PANEL CORP R8967
5800 SE 78TH ST, OCALA FL 34472

Panels consisting of foamed plastic core having metal skins on both faces.

	Core Mtl	3 to 4-1/2 In. Thk Painted or Unpainted Aluminum or Unpainted Steel Finished Panel
Flame spread	25	60
Smoke developed	90	over 500

	Core Mtl	3 to 4-1/2 In. Thk Painted or Unpainted Aluminum or Unpainted Steel Finished Panel
Flame spread	15+	80-105
Smoke developed	45-125+	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 80 and smoke developed classification of over 500.

	Core Mtl	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Galv Steel Panel
Flame spread	20	15	20
Smoke developed	130	400 to 500	over 500

	Core Mtl	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Steel Panel
Flame spread	25	20	20
Smoke developed	170	350	over 500

	Core Mtl	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Steel Panel
Flame spread	25	20	25
Smoke developed	200	over 500	over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core	4 In. Thk Painted Aluminum Panel	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Galv or Stainless Steel Panel
Flame spread	20	20	20	20
Smoke developed	400	over 500	400 - over 500	over 500

	Core Mtl	4 In. Thk. Painted or Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Galvanized or Stainless Steel Panel
Flame spread	20	15	20
Smoke developed	300	over 500	over 500

	Core Mtl	4 In. Thk Unpainted Aluminum Panel	5 In. Thk Unpainted Aluminum Panel	4 or 5 In. Thk Painted or Unpainted Galvanized or Stainless Steel Panel
Flame spread	25	20	20	20
Smoke developed	300	450	Over 500	Over 500

AMERIKOOLER INC R18276
575 E 10TH AVE, MIAMI FL 33010

Panels consisting of foamed plastic core having metal facings on both sides.

4 in. Maximum Thickness, "Amerikooler-E"

	Core Material	Unpainted Aluminum Faced Panel	Unpainted Galvalume Faced Panel	Painted or Unpainted Galvanized or Galvalume Steel Faced Panel
Flame spread	20#	50	50	140
Smoke developed	300#	200-Over 500	Over 500	Over 500

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

4 in. Maximum Thickness, "Amerikooler-X" Painted or Unpainted Galvanized or Stainless Steel or Unpainted Galvalume or Aluminum Faced Panel

	Core Material	Finished Panel
Flame spread	15#	50-115
Smoke developed	175#	Over 500

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

ARBORITE, DIV OF ITW CANADA R16359
385 LAFLEUR AVE, LASALLE, QC H8R 3H7 CANADA

Panels consisting of built-up laminate of resin impregnated paper.

	Unfaced Blanket
Flame spread	25
Smoke developed	200

ARCTIC INDUSTRIES INC R11939
9731 NW 114TH WAY, MIAMI FL 33178

Panels consisting of foamed plastic core having metal skins on both faces.

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum or Steel Faced Panel
Flame spread	25	150
Smoke developed	250	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

Building Units (BLBT)–Continued

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum or Steel Faced Panel
Flame spread	15+	150
Smoke developed	130+	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 85 and smoke developed classification of over 500.

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum Faced Panel
Flame spread	25	25
Smoke developed	350-450	Over 500

	Core Mtl	4 In. Thk Painted or Unpainted Steel Faced Panel
Flame spread	25	30
Smoke developed	350-450	Over 500

4 in. Maximum Thickness, Painted or Unpainted Steel or Unpainted Aluminum Faced Panel

	Core Mtl	Finished Panels
Flame spread	15#	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 index of 125 and smoke developed index of over 500.

ARTIC TEMP INC

R14147

2015 W MAIN PO BOX 647, PRAGUE OK 74864

Panels consisting of foamed plastic core having metal facings on each side.

	Core Mtl	4 In. Thk Unpainted Aluminum Finished Panel
Flame spread	25	25
Smoke developed	65-90	400

BALLY REFRIGERATED BOXES INC

R18109

135 LITTLE NINE DR, MOREHEAD CITY NC 28557

Panels consisting of a foamed plastic core having aluminum or steel sheet on each side.

	Core Mtl	3 In. Thk Painted Steel Finished Panel	3 In. Thk Unpainted Steel Finished Panel
Flame spread	25	25	25
Smoke developed	110-170	450	Over 500

	Core Mtl	4 to 6 In. Thk Unpainted Aluminum Interior Surface	4 to 6 In. Thk Unpainted Steel Exterior Surface
Flame spread	25	20	25
Smoke developed	105	350	500

	Core Mtl	4 to 6 In. Thk Unpainted Aluminum Finished Panel	4 to 6 In. Thk Unpainted Steel Finished Panel	4 to 6 In. Thk Painted Steel Finished Panel
Flame spread	25	20	25	25
Smoke developed	105	350	500	450

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

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Building Units (BLBT)–Continued

	Core Mtl	4 to 6 In. Thk Aluminum Coated Steel Finished Panel	4 to 6 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	20	25
Smoke developed	105	500	Over 500

	Core Mtl	4 to 6 In. Thk Unpainted Aluminum Finished Panel	4 to 6 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	25	25
Smoke developed	65-90	400	Over 500

	Core Mtl	4 In. Thk Painted or Unpainted Steel Panel
Flame spread	25	20
Smoke developed	65-90	Over 500

	Core Mtl	4 to 6 In. Thk Painted or Unpainted Aluminum Finished Panel	3 to 6 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	20	25
Smoke developed	200	400	Over 500

	Core Mtl	4 to 6 In. Thk Aluminum Coated Steel Finished Panel	4 to 6 In. Thk Painted or Unpainted Aluminum Interior Surface	4 to 6 In. Thk Painted or Unpainted Steel Exterior Surface
Flame spread	25	25	20	25
Smoke developed	200	Over 500	400	Over 500

	Core Mtl	4 to 6 In. Thk Reinforced Plastic Faced Finished Panel	4 to 6 In. Thk Aluminum Coated Steel Finished Panel	4 to 6 In. Thk Painted or Unpainted Aluminum Surface	4 to 6 In. Thk Painted or Unpainted Steel Surface
Flame spread	25	40	25	20	25
Smoke developed	250	Over 500	Over 500	400	Over 500

	4 In. Thk Core Mtl	5-6 In. Thk Core Mtl	4-6 In. Painted or Unpainted Aluminum or Steel Finished Panel
Flame spread	25	35	25
Smoke developed	170	300	Over 500
Flame spread	25	20	25
Smoke developed	250	350-450	Over 500

	Core Mtl	4-6 In. Painted or Unpainted Aluminum or Steel Finished Panel
Flame spread	25	25
Smoke developed	300	Over 500

	Core Mtl	4 In. Painted or Unpainted Aluminum or Steel Finished Panel
Flame spread	25	25
Smoke developed	350-450	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

BOSTOCK CO INC R26391

175 A TITUS AVE, WARRINGTON PA 18976

Panels consisting of laminated plastic, applied to one side of wood particle board with or without backer laminate on the other surface.

	604 Face	264 or 266 Back	Core
Flame spread	15	20	20
Smoke developed	20	15	25

	605 Face	264 or 266 Back	Core
Flame spread	15	20	20
Smoke developed	25	15	25

	607 Face	264 or 266 Back	Core
Flame spread	15	20	20
Smoke developed	35	15	25

Panels consisting of laminated plastic applied to one side of wood particle board with or with out backer laminate on the other surface.

	331 or 335 (VST) Face	203, 205, 220, or 235 (BK) Back	Core
Flame spread	20	45	20
Smoke developed	40	25	25

Panels consisting of 335 or 331 (VST) laminate applied to both surfaces

	Finished Panel	Core Mtl
Flame spread	20	20
Smoke developed	40	25

CANADIAN CURTIS REFRIGERATION INC R21246

881 ARVIN AVE, STONEY CREEK, ON L8E 5N8 CANADA

Panel consisting of foamed plastic core with metal facings on both sides.
FOR SURFACE BURNING CHARACTERISTICS SEE CLASSIFICATION MARK OF UL ON PRODUCT OR CARTON.

SURFACE BURNING CHARACTERISTICS

	Core Material	3 In. Thick Painted Steel Finished panel
Flame spread	40	15
Smoke developed	Over 500	Over 500

CAROLINA CABINET CO INC R27267

3363 HWY 301 N, WILSON NC 27894

Panels consisting of lumber solid panel with coated MDF board facing adhered to both surfaces.

	3 in. Coated MDF Faced Panel
Flame spread	25
Smoke developed	40

CARROLL COOLERS INC R15578

19705 HWY 30 W PO BOX 671, CARROLL IA 51401

Panels consisting of foamed plastic core having metal skins on both sides.

SURFACE BURNING CHARACTERISTICS

	Core Mtl	3-1/2 In. Thk Painted or Unpainted Steel Finished Panel	5-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	15	15
Smoke developed	300	Over 500	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Mtl	3-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	15
Smoke developed	250-400	Over 500

	5-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	15
Smoke developed	130-400

	Core Mtl	4 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	10
Smoke developed	250-400	Over 500

	Core Mtl	3-1/2 to 5-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	20	20
Smoke developed	300	Over 500

	Core Mtl	3-1/2 to 5-1/2 In. Thick Painted or Unpainted Steel Finished Panel	3-1/2 to 5-1/2 In. Thick Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20	20
Smoke developed	450	350	250

	Core Mtl	5 In. Thick Painted or Unpainted Steel Finished Panel	5 In. Thick Painted or Unpainted Aluminum Finished Panel
Flame spread	25	35	25-40
Smoke developed	250	Over 500	Over 500

CENTRIA**R6863**

1005 BEAVER GRADE RD, MOON TOWNSHIP PA 15108

Panels consisting of foamed plastic core having metal skins on each surface.

	Core Mtl	3 In. Thk Painted or Unpainted Steel Finished Panels
		Interior Exterior
Flame spread	20	10 15
Smoke developed	105-135	35 300

	Core Mtl	2 In. to 4 In. Thk Painted or Unpainted Steel Finished Panel
		Interior Exterior
Flame spread	20	10 15
Smoke developed	105-135	35 300

	Core Material	2 In. To 4 In. Thk Painted Or Unpainted Steel Finished Panel
Flame spread	20	10
Smoke developed	105-135	35

	Core Mtl	2-3/4 In. Thk Finished Panel	2 In. Thk Finished Panel	3 In. Thk Finished Panel
Flame spread	25	10	20	10

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

Building Units (BLBT)–Continued

	Core Mtl	2-3/4 In. Thk Finished Panel	2 In. Thk Finished Panel	3 In. Thk Finished Panel
Smoke developed	400	130-300	350-400	130-300
	Core Mtl	2 In. Thk Finished Panel Interior Face	Exterior Face	
Flame spread	25	20	25	
Smoke developed	400	350-400	350 to over 500	
	Core Mtl	2-1/4 In. Thk Finished Panels Interior	Exterior	
Flame spread	25	15	20	
Smoke developed	400	400	250-400	
	Core Mtl	1-3/4 In. Thk Finished Panels Interior	Exterior	
Flame spread	25	15	20	
Smoke developed	400	400	250- over 500	
	Core Mtl	1-1/4 In. Thk Finished Panels Interior	Exterior	
Flame spread	25	10	5	
Smoke developed	400	250	145- over 500	
	Core Mtl	1-1/4 In. Thk Finished Panels Interior	Exterior	
Flame spread	25	10	10	
Smoke developed	125-250	200	450 to over 500	
	Core Mtl	2 In. Thk Finished Panel		
Flame spread	25	15		
Smoke developed	125-250	250-450		
	Core Mtl	2 In. Thk Finished Panel		
Flame spread	25	15		
Smoke developed	125-250	300		
	Core Mtl	2 In. Thk Finished Panel		
Flame spread	25	20		
Smoke developed	125-250	350		
	Core Mtl	2-1/2 In. Thk Finished Panel		
Flame spread	20	25		
Smoke developed	105-145	400		
	Core Mtl	2-3/4 In. Thk Finished Panel		
Flame spread	20	15		
Smoke developed	105-145	250-400		
	Core Mtl	4 In. Thk Finished Panel		
Flame spread	20	20		
Smoke developed	105-145	200-350		
	Core Mtl	2-1/4 In. Thk Finished Panel		
Flame spread	20	15		
Smoke developed	105-145	250		
	Core Mtl	Surface Burning Characteristics		
		1-3/4 In. Thk Finished Panels Interior	Exterior	
Flame spread	25	15	20	
Smoke developed	125-250	400	190	

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

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Building Units (BLBT)–Continued

	Core Mtl	4 In. Thk Finished Panel
Flame spread	25	15
Smoke developed	125-250	200
CHRYSLER & KOPPIN CO R9457		
7000 INTERVALE ST, DETROIT MI 48238		
Panels consisting of foamed plastic core having an aluminum facing on one side and metal or reinforced plastic face on the other.		
	Core Mtl	4 In. Thk Unpainted Aluminum Faced Panel
Flame spread	25	15
Smoke developed	350	300
	4 In. Thk Unpainted Steel Finished Panel	4-1/2 In. Thk Painted or Unpainted Aluminum/Gypsum Faced Panel
Flame spread	15	35
Smoke developed	450 to over 500	450
4 1/2 in. Thick Painted or Unpainted Aluminum/Gypsum Finished Panel		
	Core Mtl	Aluminum/Gypsum Interior
Flame spread	20	10
Smoke developed	300	25
	4 In. Thk Unpainted Steel Finished Faced Panel	4-1/2 In. Thk Reinforced Plastic/Gypsum Finished Panel
Flame spread	20	15
Smoke developed	500	400
COMMERCIAL COOLING PAR ENGINEERING INC R25886		
17855 E ARENTH AVE, CITY OF INDUSTRY CA 91748		
Panels consisting of foamed plastic core having metal facings on both sides.		
	Core Material	4 in. thick Unpainted Aluminum Panel
Flame Spread	20	10
Smoke Developed	170-250	150-200
Panels consisting of foamed plastic core having metal facings on both sides.		
	Core Material	4 in. thick Unpainted Aluminum Panel
Flame Spread	20	10
Smoke Developed	450	115
CONSTRUCTION SPECIALTIES INC R25708		
6696 RTE 405 HWY PO BOX 380, MUNCY PA 17756		
Panels consisting of an aluminum honeycomb core having a decorative aluminum facing on one side.		
	Core Material	0.800 in. thick max. Finished Panels
Flame Spread	10	10

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Material	0.800 in. thick max. Finished Panels
Smoke Developed	65	160
CROWN FIXTURES INC		
SUITE 300 10700 HWY 55, PLYMOUTH MN 55441		
Panels consisting of foamed plastic core having steel facing on both sides.		
	Core	5 In. Thick Painted or Unpainted Steel Finished Panel
Flame spread	25	20
Smoke developed	400	115-300
	Core	3-1/2 and 5 In. Thick Painted Or Unpainted Steel Finished Panel
Flame spread	25	20
Smoke developed	300	250-400
	Core Mtl	3-1/2 and 5 In. Thk Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20
Smoke developed	300	450 - over 500
	Core Mtl	3-1/2 and 5 In. Thick Painted Or Unpainted Steel Finished Panel
Flame spread	25	20
Smoke developed	250	250-300
	Core Mtl	3-1/2 and 5 In. Thick Painted Or Unpainted Aluminum Finished Panel
Flame spread	25	20
Smoke developed	250	250
	Core Mtl	3-1/2 to 5 In. Thick Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20
Smoke developed	250	200-350
	Core Mtl	3-1/2 or 5 In. Thick Painted or Unpainted Aluminum Finished Panel
Flame spread	25	15
Smoke developed	450	90-300
	Core Mtl	4 or 5 In. Thick Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20
Smoke developed	450	450

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Mtl	4 or 5 In. Thick Painted or Unpainted Aluminum Finished Panel	4 or 5 In. Thick Painted or Unpainted Steel Finished Panels
Flame spread	25	20	15
Smoke developed	450	450	Over 500
	Core Material	3-1/2 to 5 in. Thick Painted or Unpainted Aluminum or Steel face panels	3-1/2 to 5 in. Thick Painted or Unpainted Aluminum or Steel face panels
Flame Spread	25	25	25
Smoke Developed	300	Over 500	Over 500
	Core Mtl	3-1/2 to 5 In. Thick Painted or Unpainted Aluminum Finished Panel	3-1/2 to 5 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	10	5 - 20
Smoke developed	450	Over 500	250 - Over 500
CROWNTONKA CALIFORNIA INC R16673			
SUITE 160 10700 HWY 55, PLYMOUTH MN 55441			
Panels consisting of foamed plastic core having metal facings on both sides.			
	Core	5-1/2 In. Thk Painted or Unpainted Steel Finished Panel	
Flame spread	25	20	
Smoke developed	400	115-300	
	Core Material	3-1/2 and 5-1/2 In. Thk Painted or Unpainted Steel Finished Panel	
Flame spread	25	20	
Smoke developed	300	250-400	
	Core Material	3-1/2 and 5-1/2 In. Thk Painted or Unpainted Aluminum Finished Panel	
Flame spread	25	20	
Smoke developed	300	450- over 500	
	Core Material	3-1/2 and 5-1/2 In. Thk Painted or Unpainted Steel Finished Panel	
Flame spread	25	20	
Smoke developed	250	250-300	
	Core Material	3-1/2 and 5-1/2 In. Thk Painted or Unpainted Aluminum Finished Panel	
Flame spread	25	25	
Smoke developed	250	250	
	Core Mtl	3-1/2 to 5-1/2 In. Thk Painted or Unpainted Aluminum Finished Panel	3-1/2 to 5-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	20	15
Smoke developed	250	200	200-350

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

Building Units (BLBT)—Continued

	Core Mtl	3-1/2 to 5-1/2 In. Thk Painted or Unpainted Aluminum Finished Panel	3-1/2 to 5-1/2 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	15	20
Smoke developed	450	90-300	200-300

	Core Material	4 or 5 In. Thk Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20
Smoke developed	450	450

CUSTOM COOLER INC**R25285****420 E ARROW HWY, SAN DIMAS CA 91773**

Panels consisting of foamed plastic core having metal facings on both sides.

	Core Mtl	3 1/2 thru 5 in. thick Painted or Unpainted Steel Finished Panel
Flame spread	20	15
Smoke developed	300	250

EMJAC INDUSTRIES INC**R14064****1075 HIALEAH DR, HIALEAH FL 33010**

Panels consisting of foamed plastic core having metal facings on both sides.

	Core	4 In. Thk Painted or Unpainted Aluminum Panel	4 In. Thk Unpainted Steel Panel
Flame spread	15#	15	10
Smoke developed	80-160#	Over 500	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 80 and smoke developed classification of over 500.

	Core	4 In. Thk Painted or Unpainted Aluminum Panel	4 In. Thk Unpainted Steel Panel
Flame spread	25	55-100	50
Smoke developed	200	Over 500	Over 500

ENVIRONMENTAL PANEL SYSTEMS**R8080****3500 E 20TH ST, INDIANAPOLIS IN 46218**

Panels consisting of foamed plastic core having metal skins on each surface.

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum Finished Panel
Flame spread	25	15
Smoke developed	300	Over 500

FORMA KOOL MFG INC**R18230****46880 CONTINENTAL DR, CHESTERFIELD MI 48047**

Panels consisting of foamed plastic core having metal facings on both sides.

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

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Building Units (BLBT)—Continued

SURFACE BURNING CHARACTERISTICS

	Core Mtl	4 In. Thk Unpainted Aluminum & Painted or Unpainted Steel
Flame spread	20	15
Smoke developed	300	Over 500

	Core Mtl	4 In. Thk Unpainted Aluminum	4 In. Thk Unpainted Aluminum or Unpainted Steel
Flame Spread	20	10	5
Smoke Developed	300	95	120-400

FORMICA CORPORATION**R22111****10155 READING RD, CINCINNATI OH 45241**

Panels consisting of built-up laminate of resin impregnated kraft paper layers

SURFACE BURNING CHARACTERISTICS

	1/2 in. to 1 in. Thickness (12.7 mm to 25.4 mm)
Flame spread	10
Smoke developed	65

SURFACE BURNING CHARACTERISTICS

	COMPACT 1/4 in. to 1 in. Thickness (6.35 mm to 25.4 mm)
Flame spread	0
Smoke developed	30

	EXTERIOR COMPACT 5/16 in to 1/2 in. Thickness (8 mm to 12.7 mm)
Flame spread	0
Smoke developed	20

HILL PHOENIX INC**R14347****WALK-IN COOLER DIV SUITE 200 505 PECAN ST, FORT WORTH TX 76102**

Panels consisting of foamed plastic core having metal facings on both sides.

	Core Mtl	3 1/2 thru 5 1/2 in. thick Painted or Unpainted Steel Finished Panel
Flame spread	20	15
Smoke developed	180-300	200

	6 in. Maximum Core Mtl	3 1/2 thru 5 in. thick Painted or Unpainted Steel/ Aluminum Finished Panel
Flame spread	25	20
Smoke developed	300	Over 500

	6 in. Maximum Core Mtl	3 1/2 thru 5 in. thick Painted or Unpainted Steel/ Aluminum Finished Panel
Flame spread	25	5
Smoke developed	300	150

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

HUDSON MIRROR L L C, DBA MIRRORLITE PRODUCTS R7754
710 WASHINGTON ST, PEEKSKILL NY 10566

Panels consisting of mirrored film faced panels and panels consisting of a foamed plastic core having a mirrored film on one face.

**Mirrorlite Face-Bond
Backless Mirror Panel**

Flame Spread	5
Smoke Developed	5-35

	1-1/4 in. panel Face	Back	Core
Flame spread	20	20	25
Smoke developed	115	90-130	155

IMPERIAL MFG ICE COLD COOLERS INC R14667
2271 NE 194TH, PORTLAND OR 97230

Panels consisting of fiberglass or polyurethane foamed plastic core having metal facings on both sides and wood frame rails. Panels consisting of polyurethane foamed plastic core having metal facings on both sides and high density polyurethane foamed rails.

	Fiberglass Core Mtl	3-1/2 In. Thk Painted or Unpainted Steel Finished Panel Wooden Rails
Flame spread	15	10
Smoke developed	0	5
	or FHC 25/50	

	Polyurethane Foam Core Mtl	3-1/2 In. Thk Painted or Unpainted Steel Finished Panel Wooden Rails
Flame spread	20	15
Smoke developed	450	300-450

	Polyurethane Foam Core Mtl	4 In. Thk Painted or Unpainted Steel Finished Panel High Density Polyurethane Rails
Flame spread	20	40
Smoke developed	450	Over 500

INSULFOAM L L C, DBA PREMIER BUILDING SYSTEMS R14340
SUITE 120 6004 N WESTGATE BLVD, TACOMA WA 98406

Panels consisting of foamed plastic core having oriented strand board skins on both sides or having oriented strand board skin on one side and gypsum wallboard on the other side.

SURFACE BURNING CHARACTERISTICS

	Core Mtl Value at 5 In. Max Thk #	Finished Product + Interior Surface *	Exterior Surface **
Flame spread	20##	10	130-160
Smoke developed	150-250##	0	95-190

+Panels may bear Certificate Marking up to a maximum thickness of 12-7/8 in.

#Core material tested in thicknesses up to 5 in.

##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 spread index of 180 and smoke developed index of over 500.

*Tested as faced with 1/2 in. gypsum wallboard.

**Tested as faced with 3/8 in. cedar plywood, mechanically installed such that plywood joints are offset from panel joints.

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Mtl Value at 5 In. Max Thk #	Interior Surface *	Finished Products + Interior Surface **	Exterior Surface ***
Flame spread	20##	5	10	130-160
Smoke developed	150-300##	10-35	0	95-190

+Panels may bear Certificate Marking up to a maximum thickness of 12-7/8 in.

#Core material tested in thicknesses up to 5 in.

##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 spread index of 180 and smoke developed index of over 500.

*Tested as applied with Premier Fireguard @ Coating.

**Tested as faced with 1/2 in. gypsum wallboard.

***Tested as faced with 3/8 in. cedar plywood, mechanically installed such that plywood joints are offset from panel joints.

KINGSPAN INSULATED PANELS INC R12546
726 SUMMERHILL DR, DELAND FL 32724

Panels consisting of foamed plastic core having metal skins on each surface.

	Core Mtl	2 In. Thk Steel Finished Panel
Flame spread	25	20
Smoke developed	350-450	350

LEER INC R14011
206 LEER ST, NEW LISBON WI 53950

Panels consisting of foamed plastic core having steel or aluminum facing on both sides.

	Core Mtl	4 to 5 In. Thk Painted or Unpainted Steel Finished Panel	4 to 5 In. Thk Painted or Unpainted Aluminum Finished Panel
Flame spread	25	25	25
Smoke developed	400	over 500	450

	Core Material	4 to 5 in. thk Unpainted Steel Finished Panel
Flame spread	25	25
Smoke developed	450	over 500

	Core Mtl	4 to 5 In. Thk Painted or Unpainted Steel Finished Panel	4 to 5 In. Thk Painted or Unpainted Aluminum Finished Panel
Flame spread	25	20	15
Smoke developed	450	Over 500	Over 500

MANITOWOC WALK-INS R10631
4201 N BEACH ST, FORT WORTH TX 76137

Panels consisting of foamed plastic core having metal skins on both faces.

**3-1/2 to 5 In. Thickness Painted or Unpainted Aluminum
Faced Panel w/High Density Frame**

	Core Material	Finished Panel
Flame spread	25	25
Smoke developed	400	Over 500

**3-1/2 to 5 In. Thickness Painted or Unpainted Galvanized, Galvalume
or Stainless Steel Faced Panel w/High Density Frame**

	Core Material	Finished Panel
Flame spread	25	25

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

Building Units (BLBT)–Continued

Smoke developed	Core Material 400	Finished Panel Over 500
2-1/2 to 5 In. Thickness Painted or Unpainted Aluminum Faced Panel w/Wood Frame		
Flame spread	Core Material 25	Finished Panel 25
Smoke developed	400	Over 500
2-1/2 to 5 In. Thickness Painted or Unpainted Galvanized, Galvalume or Stainless Steel Faced Panel w/Wood Frame		
Flame spread	Core Material 25	Finished Panel 25
Smoke developed	400	Over 500
3-1/2 to 5 In. Thickness Painted or Unpainted Aluminum Faced Panel		
Flame spread	Core Material 25	Finished Panel 15
Smoke developed	300	Over 500
3-1/2 to 5 In. Thickness Painted or Unpainted Galvanized, Galvalume or Stainless Steel Faced Panel		
Flame spread	Core Material 25	Finished Panel 15
Smoke developed	300	Over 500
3-1/2 to 5 In. Thk Painted or Unpainted Aluminum		
Flame spread	Core Mtl 15	Finished Panel 15
Smoke developed	350	400-Over 500
3-1/2 to 5 In. Thk Painted or Unpainted Aluminum		
Flame spread	Core Mtl 20	Finished Panel 15
Smoke developed	450	500-Over 500
4 In. Max Core Mtl		
Flame spread	20	25
Smoke developed	130	200
6 In. Max Core Mtl		
Flame spread	25	20
Smoke developed	300	Over 500
4 In. to 5 In. Thk Painted or Unpainted Aluminum		
Flame spread	25	20
Smoke developed	350	Over 500
4 In. to 5 In. Thk Painted or Unpainted Aluminum		
Flame spread	25	20
Smoke developed	350	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

35

Building Units (BLBT)–Continued

Flame spread	Core Mtl 25	6 In. Thk Painted or Unpainted Aluminum Finished Panels
Smoke developed	400	Exterior Wall/ Interior Ceiling
6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	25	20
Smoke developed	Over 500	Over 500
6 In. Thk Painted or Unpainted Aluminum Finished Panels		
Flame spread	20	20
Smoke developed	180-300	Over 500
6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	20	20
Smoke developed	Over 500	Over 500
4 In. Thk Painted or Unpainted Aluminum or Steel		
Flame spread	25	20
Smoke developed	200	Over 500
6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	25	25
Smoke developed	400	Over 500
5-1/4 or 6 In. Thk Painted or Unpainted, Aluminum, Steel or Aluminum Coated Steel Finished Panels		
Flame spread	20	20
Smoke developed	180-300	Over 500
5 In. or 6 In. Thk Painted or Painted Aluminum Finished Panels		
Flame spread	6 In. Thk Core Mtl 20	Exterior Ceiling/ Interior Wall
Smoke developed	300	Over 500
5 In. or 6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	20	20
Smoke developed	Over 500	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.



Documents

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Building Units (BLBT)–Continued

	6 In. Thk Core Mtl	4 In. Thk Painted or Unpainted Aluminum Finished Panels	4 In. Thk or Unpainted Steel or Aluminum Coated Steel Finished Panels
Flame spread	20	20	25
Smoke developed	300	Over 500	Over 500
	6 In. Max Thk Core Mtl	4-6 In. Thk Painted or Unpainted Aluminum Finished Panels	
Flame spread	20	20	
Smoke developed	300	500	
	4-6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	25		
Smoke developed	Over 500		
	6 In. Max Thk Core Mtl	4-6 In. Thk Painted or Unpainted Aluminum Finished Panels	
Flame spread	20	25	
Smoke developed	170-250	Over 500	
	4-6 In. Thk Painted or Unpainted Steel or Aluminum Coated Steel Finished Panels		
Flame spread	45		
Smoke developed	Over 500		
	6 In. Max Thk Core Mtl	4-6 In. Thk Painted or Unpainted Aluminum, Steel or Aluminum Coated Steel Finished Panels	
Flame spread	25	25	
Smoke developed	400	Over 500	

MARLITE INC

R14339

202 HARGER ST PO BOX 250, DOVER OH 44622

Laminated plastic factory applied to both sides of treated wood particleboard, inorganic reinforced cement board,, treated plywood, untreated wood particleboard, untreated plywood, untreated honeycomb core, treated wood particleboard with a factory applied untreated wood veneer facing, and a laminated plastic backer and laminated plastic factory applied to both sides of medium density fiberboard.

SURFACE BURNING CHARACTERISTICS

	3/8 in. to 1-1/2 in. Treated Wood Particleboard Core	Grade 607, 605, or 604 Face	Grade 264 or 266 Back
Flame spread	25	15	20
Smoke developed	25	135	45
	3/8 in. to 1-1/2 in. Treated Wood Particleboard Core	Grade 32 or 50 Face	Grade 87 or 89 Back
Flame spread	25	20	25
Smoke developed	25	15	0

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	3/8 in. to 1-1/2 in. Treated Wood Particleboard Core	Grade 604, 605 or 607 Face	Grade 264- 266 Back
Flame spread	25	15	20
Smoke developed	25	15	0
	1/4 in. or Greater Inorganic Reinforced Cement Board Core	Grade 604, 605 or 607 Face	Grade 264- 266 Back
Flame spread	0	10	20
Smoke developed	0	5	0
	1/4 in. or Greater Inorganic Reinforced Cement Board Core	Grade 32 or 50 Face	Grade 87 or 89 Back
Flame spread	0	15	15
Smoke developed	0	10	0
	3/8 in. to 1-1/2 in. Treated Plywood 25 or FRS	Grade 32 or 50 Face	Grade 87 or 89 Back
Flame spread	25	20	20
Smoke developed	25	105	105
	5/8 to 1-1/8 Untreated Wood Particleboard Core	Grade 10 or 20 Face	Grade 91 Back
Flame spread	135	65	85
Smoke developed	140	180	65
	5/8 to 1-1/8 Untreated Wood Particleboard Core	Grade 10 or 20 Face+	Grade 91 Back+
Flame spread	135	65	90
Smoke developed	105	250	85
	3/8 in. Untreated Wood Particleboard Core	Formica Grade 10 or 20 Face	Formica Grade 91 Back
Flame spread	115	50	100-180
Smoke developed	120	250	120
	1/2 in. Untreated Plywood Core	Grade 20 Face	Grade 20 Back
Flame spread	40-80	40-95	40-95
Smoke developed	25-65	160-350	160-350
	1/2 in. Untreated Plywood Core	Grade 20 Face	Grade 20 Back
Flame spread	40-80	60-85	60-85
Smoke developed	25-65	250	250
	.600 in. Untreated Honeycomb Core	Grade 10 Face	Grade 10 Back
Flame spread	540	125	125
Smoke developed	65-95	250	250

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

Building Units (BLBT)–Continued

	3/8 in. to 1-1/2 in. Treated Wood Particleboard Core	Veneer Density (lbs per cu. ft) 35:0 or less Face	Grade 87 Back
Flame spread	20	20	25
Smoke developed	25	10	0

	3/8 in. Untreated Medium Density Fiberboard Core (MDF)	Grade 20 Face	Grade 20 Back
Flame spread	120	95	95
Smoke developed	140	95	95

	3/8 In. to 1-1/2 in. Untreated Medium Density Fiberboard Core	Wilsonart Grade 335 Face	Wilsonart Grade 203 Back
Flame spread	130	95	160-180
Smoke developed	170	90	65

	0.61 in. Untreated Honeycomb Core	Formica Grade A400-991 Face	Formica Grade A400-991 Back
Flame spread	70	170	170
Smoke developed	70	500	500

MASTER-BILT PRODUCTS

R14418

908 HWY 15 N, NEW ALBANY MS 38652

Panels consisting of foamed plastic core having metal facings on both sides.

	Core	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Unpainted Aluminum Coated or Stainless Steel or Galv Steel Panel
Flame spread	20	20	20
Smoke developed	130	450	Over 500

		4 In. Thick Painted Or Unpainted Aluminum Coated Galvanized Steel Panel
Flame spread		20
Smoke developed		Over 500

	Core	4 In. Thk Unpainted Aluminum Panel	4 In. Thk Painted or Unpainted Galv or Aluminum Coated Steel Panel
Flame spread	25	25	25
Smoke developed	170	450	Over 500

		4 In. Thk Painted Or Unpainted Stainless Steel Panel
Flame spread		25
Smoke developed		Over 500

	Core	5 In. Thk Unpainted Aluminum Panel	5 In. Thk Painted or Unpainted Stainless or Galv Steel Panel
Flame spread	25	20	20
Smoke developed	350	Over 500	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

BUILDING MATERIALS (BHWV)

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Building Units (BLBT)–Continued

Panels consisting of foamed plastic core having metal facings on both sides.

	Core Material	3 1/2 in. thick Painted or Unpainted Steel Finished Panel	4 in. thick Unpainted Aluminum Finished Panel
Flame spread	25	20	10
Smoke developed	350	200-300	400-500

MASTER-BILT PRODUCTS

R7894

908 HWY 15 N, NEW ALBANY MS 38652

Panels consisting of foamed plastic core having metal skins on each surface.

	3 in. Thick Core Material	Foam Edged Panels 3 in. Thick Aluminum Finished Panel	Steel Finished Panel
Flame spread	25	20	25
Smoked developed	250-300	350-450	Over 500

	Core Mtl	4 or 5 In. Thk Aluminum Finished Panel	4 or 5 In. Thk Steel Finished Panel
Flame spread	25	20	25
Smoke developed	250	250-450	over 500

	Core Mtl	4 or 5 In. Thk Painted or Unpainted Aluminum Finished Panel	4 or 5 In. Thk Unpainted Steel Finished Panel
Flame spread	25	20	25
Smoke developed	150	350	over 500

	Core Mtl	4 In. Thk Steel Finished Panel
Flame spread	25	25
Smoke developed	145	Over 500

	Core Mtl	Wood Edged Panel 4 In. Thk Aluminum Finished Panel	4 In. Thk Steel Finished Panel
Flame spread	25	20	25
Smoke developed	145	350 to 450	Over 500

	Core Mtl	Foam Edged Panels 4 or 5 In. Thk Painted or Unpainted Aluminum Finished Panel	4 or 5 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	20	20	20
Smoke developed	300	450	over 500

	Core Mtl	Foamed Edged Panel 4 In. Thk Painted or Unpainted Aluminum Finished Panel	4 In. Thk Unpainted Galv Steel Finished Panel
Flame spread	25	25	25
Smoke developed	90	Over 500	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Mtl	Foamed Edged Panel 4 In. Thk Painted or Unpainted Aluminum Finished Panel	4 In. Thk Unpainted Galv Unpainted Galv Steel Finished Panel
Flame spread	25	25	24
Smoke developed	350-450	Over 500	Over 500

METL-SPAN L L C **R7864**

1497 N KEALY, LEWISVILLE TX 75057

Panels consisting of foamed plastic core having coated galvanized steel on both faces.

	Core Mtl	3-1/2 or 5-1/2 In. Thk Painted or Unpainted Aluminum Panel
Flame spread	25	20
Smoke developed	250	300

	Core Mtl	3-1/2 or 5-1/2 In. Thk Painted or Unpainted Aluminum Panel
Flame spread	25	25
Smoke developed	300	250

	Core Mtl	3-1/2 or 5-1/2 In. Thk Painted or Unpainted Aluminum Panel
Flame spread	25	20
Smoke developed	400 to 450	250

MODULAR SERVICES CO **R9825**

109 NE 38TH ST, OKLAHOMA CITY OK 73105

Panels consisting of laminated plastic, factory applied to both faces of treated wood particle board core.

	Core 3/8 to 3/4 In. Thk	Finished Panel
Flame spread	25	25
Smoke developed	25	40

NOR-LAKE INC **R8058**

PLANT #3 891 COUNTY RD U, HUDSON WI 54016

Panels consisting of wood framing having glass fiber batt core with metal facings on both sides.

	Finished Panel	Composite Interior Framing/Insulation
Flame spread	20	20
Smoke developed	25	0

Panels consisting of foamed plastic core having metal facings on both sides.

	Core Mtl	4 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	20	20
Smoke developed	250	Over 500

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum Coated Steel Finished Panel
Flame spread	25	25
Smoke developed	250	Over 500

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON.

Building Units (BLBT)–Continued

	Core Mtl	4 In. Thk Painted or Unpainted Aluminum Finished Panel	4 In. Thk Painted or Unpainted Steel Finished Panel
Flame spread	25	25	25
Smoke developed	250	450	Over 500

PANEL SPECIALISTS INC **R14034**

3115 RANGE RD, TEMPLE TX 76504

Panels consisting of laminated plastic, factory applied to both sides of treated wood particleboard, Laminated plastic, factory applied to both sides of inorganic reinforced-cement board.

Panels consisting of laminated plastic, factory applied to both sides of treated wood particleboard.

Laminated plastic applied to both sides of treated wood particleboard.

	Type 604 Face	Type 264 or 266 Back	Core Mtl
Flame spread	15	20	20
Smoke developed	20	15	25

	Type 605 Face	Type 264 or 266 Back	Core Mtl
Flame spread	15	20	20
Smoke developed	25	15	25

	Type 607 Face	Type 264 or 266 Back	Core Mtl
Flame spread	15	20	20
Smoke developed	35	15	25

	335 or 331 (VST) Face	205 (BK) Back	Core Mtl
Flame spread	20	45	20
Smoke developed	40	25	25

	Finished Panel +	Core Mtl
Flame spread	20	20
Smoke developed	40	25

+Consists of Type 335 (VST) applied to both surfaces.

Laminated plastic, factory applied to both sides of inorganic reinforced cement board.

	Type 604 or 605 Face	Type 607 Face	Type 264 or 266 Back	Core Mtl
Flame spread	15	15	15	0
Smoke developed	0	25	0	0

PENN REFRIGERATION SERVICE CORP **R9064**

WOODBURY STREET P O BOX 1261, WILKES BARRE PA 18703

Panels consisting of foamed plastic core having aluminum sheet on both faces.

	4 In. Thk Core Material	Finished Panel
Flame spread	25	20
Smoke developed	250	450

PIONEER PLASTICS CORP **R21850**

1 PIONITE RD, AUBURN ME 04211

Panels consisting of built-up laminate of resin impregnated kraft paper layers and designated Type KD Series.

SURFACE BURNING CHARACTERISTICS

	1/8 – 1 in. Thk
Flame spread	10
Smoke developed	95

FOR SURFACE BURNING CHARACTERISTICS, SEE CLASSIFICATION MARKING
OF UL ON PRODUCT OR CARTON