

Certificate of Compliance



This is a certificate of compliance to certify that the bearer has successfully completed the requirements of the above scheme which include the testing of products, the initial assessment, and are subject to continuing annual assessments of their compliance and testing of samples of products taken from production (as applicable to the scheme) and has been registered within the scheme for the products detailed.

You have been awarded:

OPL Mark and Intertek ETL US Mark for Roof/ceiling, Floor/ceiling, Beam & Column Assemblies, Other Products


Standards: IEEE 848 (1996), ASTM E1529 (2006), ASTM E1725 (2008), ASTM E119 (2012), NFPA 290 (2013), NFPA 58 Appendix H (2011), ISO 22899-1 (2007)

Certificate number: WHI13 - 20265302

Organization: 3M
3M Center
St. Paul, MN 55144
United States

Product: 3M Fire Barrier Interam™ E-5 Series Mats
Spec ID: 29626
Listing Information: See following page(s)

Certification body: Intertek Testing Services NA, Inc.
Initial registration: January 24th, 2013
Date of expiry: January 9th, 2025
Issue status: 3

Authorized By: 
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The certificate and schedule are held in force by regular annual surveillance visits by Intertek Testing Services NA, Inc. and the reader or user should contact Intertek to validate its status. This certificate remains the property of Intertek Testing Services NA, Inc. and must be returned to them on demand. This Certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

LISTING INFORMATION

The 3M™ Interam™ E-5, E-50 and ES-5 Series Mats are endothermic blankets/mats designed to wrap around items requiring protection from fire exposure, such as electrical systems and structural steel in fire-resistant assemblies/systems. The flexible felt-like material is made up of a combination of fibers and an inorganic endothermic material.

The endothermic property of the E-Mats allows it to retard specified heat penetration by chemically absorbing heat energy. When exposed to high temperatures, Interam™ E-Mats release chemically-bound water to cool the outer surfaces of the wrap material and retard heat transfer.

The total thickness or number of 3M™ Interam™ E-Mat layers employed on a fire-resistant assembly will dictate the total amount of protection. E-mats are produced in two different thicknesses, which enable the user to meet the desired fire protection requirements with the fewest number of layers. The numbering system/product name for the mat corresponds to the thickness of the material as shown in the brochure titled *Interam™ E-5 Series Mats Endothermic Ceramic Fiber Blanket*. The E-Mat product is also described in the following documents:

- *3M™ Interam™ E-5A Series Mat Flexible Wrap for Industrial Fire Protection* product brochure;
- Material Safety Data Sheet (MSDS) for 3M™ Interam™ E-5A Series Mat;
- *3M™ Interam™ Endothermic Mat E-5A-4 – Product Information*;
- *3M™ Interam™ Systems General Installation Tools, Techniques and Quality Assurance*; and,
- *3M™ Interam™ Systems E-Mat Installation Instructions for Electrical Raceway Protection for the Petrochemical Industry*.

RATINGS

Standard	Rating	Design Number
ASTM E 1725	2 hour	3MU/BI 120-02
ASTM E 1725	2 hour	3MU/PPI 120-01
ASTM E 1725	2 hour	3MU/AF 120-01
ASTM E 1725	1 hour	3MU/AF 60-01 (ECP 523)
ASTM E 1725	1 hour	3MU/AF 60-02 (ECP 524)
ASTM E 1725	1 hour	3MU/AF 60-03 (ECP 525)
ASTM E 1725	1 hour	3MU/AF 60-04 (ECP 526)

ASTM E 1725	1 hour	3MU/AF 60-05 (ECP 527)
IEEE 848	See Design Listing	3MU/AF 60-06 (ECP 531)
IEEE 848	See Design Listing	3MU/AF 60-07 (ECP 532)
ASTM E 1725	3 hour	3MU/AF 180-01 (ECP 528)
ASTM E 1725	3 hour	3MU/AF 180-02 (ECP 529)
ASTM E 1725	3 hour	3MU/AF 180-03 (ECP 530)
ASTM E 1529	4 hour	3MU/AF 240-01 (B 301)
ASTM E 119	4 hour	3MU/AF 240-02 (B 302)
NFPA 58 Appendix H/ NFPA 290	Pass	3MU/AF 50-01
ISO 22899	See Design Listing	3MU/AF 240-03
ISO 22899	See Design Listing	3MU/AF 240-04
ISO 22899	See Design Listing	3MU/AF 120-02
ISO 22899	See Design Listing	3MU/AF 180-04
ISO 22899	See Design Listing	3MU/AF 120-03
ISO 22899	See Design Listing	3MU/AF 120-04
ISO 22899	See Design Listing	3MU/AF 120-05

Standard	Size	Ampacity Derating	Design Number
IEEE 848-1996	24-inch x 4-inch tray	49.90%	3MU/AF 60-06 (ECP 531)
IEEE 848-1996	1-inch conduit	8%	3MU/AF 60-07 (ECP 532)

IEEE 848-1996 4-inch conduit 9% 3MU/AF 60-07 (ECP 532)

Certified Products can be identified by the Omega Point Laboratories (OPL), Warnock Hersey (WH), or ETL Certification Mark