

Sharmans Plygene fire test

Although there are no specific fire tests relating to gutter membranes as they don't fall under the scope of either a roof construction or façade, Sharmans have been working with Exova to gain an independent assessment and test evidence for our Plygene Gutterline system in relation to the spread of fire.

Exova conducted an Ignitability Test - EN 11925-2 on the two key system components, namely the thermoplastic membrane and the material used to form the bespoke moulded units. Upon passing this test, the products could obtain a Euro-classification 'E' to the harmonised European standard EN 13501-1.

Exova are an independent consultancy and testing house based in Warrington with a connected network of specialists throughout the Middle East, Europe, Canada, Australia and Asia Pacific. Exova Warrington fire has competence in all international fire standards and offers a complete spectrum of services to support customers in both their domestic and international markets.

Test method

The specimen is mounted vertically into the test frame and two pieces of filter paper are placed below the specimen. The defined test flame may be applied in a number of manners, dependent upon the requirements of the specification document:

- 15 seconds surface application
- 15 seconds edge application

The test duration is as follows:

- 15 second flame application time, total test duration = 20 seconds

In all cases, observations are made as to whether the flame tip reaches a point 150mm above the original flame application point within the test duration and whether the filter paper was ignited by any flaming debris / droplets, etc.

Generally six specimens are tested with each flame application type required.



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Test Results

Test method & test number	Parameter	No. tests	Results		
			Continuous parameter - mean (m)	Compliance Parameters	
EN ISO 11925-2	15s exposure - surface	6	Fs	Nil	Compliant
			Flaming droplets/particles	None	Compliant
	15s exposure - edge	6	Fs	45mm	Compliant
			Flaming droplets/particles	None	Compliant

EN13501-1

Even in the worst-case scenario where a flame was applied directly to the edge of the material, the flame didn't spread further than 45mm and there were no flaming droplets.

This means that the material passed all tests and has obtained a Euro-classification 'E' to the harmonised European standard EN 13501-1.

Disclaimer

The information, and, in particular, the recommendations relating to the application and end-use of products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HD Sharman reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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