

## Declaration of Performance

Reference: FM CPR DOC 001-17

Date of Issue: 20 November 2017

1	<p>Unique identification of the product type: <b>FireMaster Structural Steel PFP</b></p>
2	<p>Type and batch numbers: Marked on each carton of fire protection blanket</p>
3	<p>Intended use as given in ETAG 15/0408: 3.1 Fire protective kit comprising fire protection blanket with steel pin and washer fasteners intended for use as fire protection for load bearing steel elements in accordance with ETAG 018-4:2011 Type 4 3.2 For use in internal conditions Z<sub>2</sub> as specified in ETAG 018-4:2011</p>
4	<p>Name and contact details of the manufacturer:</p> <p>Placed on the market by</p> <p>Morgan Advanced Materials – Thermal Ceramics Tebay Rd. Bromborough CH62 3PH U.K.</p> <p>And manufactured at:</p> <p>Morgan Advanced Materials Thermal Ceramics Zone industrielle Les Plantées, 42680, Saint Marcellin en Forez, France</p> <p><a href="http://www.morganfireprotection.com">www.morganfireprotection.com</a></p>
5	<p>Authorised representative: Not Applicable</p>

6	System or systems of Assessment and Verification of Consistency of Performance (AVCP): See Section 9 below		
7	This construction kit is not covered by a Harmonised Standard (hEN)		
8	<p>The Declaration of Performance concerns a construction kit for which a European Technical Agreement has been issued</p> <p>By UL Europe (notified body 0843) Issued as ETA 15/0408 On the basis of ETA 026/2 Performed under system AVCP 1 And issued certificate of consistency of performance number 0843–CPR–0364</p>		
9	Declared Performance		
	Essential Characteristics	Performance	Harmonised Technical Specification
	<b>BWR 1 Mechanical resistance and stability</b> : Not applicable		
	<b>BWR 2 Safety in case of fire</b>		
	Reaction To Fire	Material : A1 Fastener: A1	ETAG 018-4:2011
	Resistance to Fire	R30 to R180 Dependant on steel section dimensions. Specified in Annex A of ETA 15/084	ETAG 018-4:2011
	<b>BWR 3 hygiene, health and environment</b>		
	Water permeability	NPD	
	Air permeability	Not Relevant	
	Release of dangerous substances	Declaration filed with approval body	ETAG 018-4:2011

<b>BWR 4 Safety in use</b>		
Flexural Strength	Not Relevant	ETAG 018-4:2011
Dimensional Stability	Length minus 2.16% Width minus 2.45% Thickness plus 0.86%	ETAG 018-4:2011
<b>BWR 5 Protection against noise</b>		
Sound Absorption	Class A	ETAG 018-4:2011
<b>BWR 6 Energy economy and heat retention</b>		
Thermal Resistance	Nominal 0.032 W/mK at 10°C	ETAG 018-4:2011
Water Vapour Transmission	Water Vapour Transmission Rate (g/mg/h.m <sup>2</sup> ) : 16958..5  Water Vapour Permenence, W (mg./h.m <sup>2</sup> .Pa) : 14.05  Water Vapour Resistance, Z (h.m <sup>2</sup> .Pa/mg) : 0.071  Water Vapour Permeability (mg.h.n/Pa) : 0.43  Water Diffusion Resistance Factor $\mu$ : 1.66  Water Diffusion Equivalent Air Layer Thickness S <sub>d</sub> (m) : 0.051	ETAG 018-4:2011
General aspects relating to product performance		
Durability and Serviceability	Durability (internal only)	ETAG 018-4:2011

	Identification	Information filed by Approval Body	
<b>BWR 7 Sustainable use of natural resources</b>			
		NPD	ETAG 08-4:2011

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Name: Allan Beeston

Function: Global Fire Protection Manager

Bromborough, UK. 20.10.2017

Signature

