

Declaration of Performance

Certificate No. 0006-CPR-130701

1. Unique identification of the product-type:

Modular Roll Low E Frame Batt MHI Roll
See table hereunder...

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4)

See table hereunder...

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

**Thermal Insulation for Buildings.
Factory made glass mineral wool thermal products.**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11(5):

Saint-Gobain Isover, Whitehouse Industrial Estate, Runcorn, Cheshire, WA7 3DP, UK

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in article 12(2):

N/A

6. System or systems of Assessment and Verification of Constancy (AVCP) of Performance of the construction product as set out in Annex V:

**System 1 (Reaction to fire)
System 3 (all other declared properties)**

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Warrington Certification Ltd (1121)

performed initial and continuous surveillance of the place of manufacture and the factory production control implemented, sampled product and witnessed initial type testing under

System 1 and System 3

and issued

**the Certificate of Constancy of Performance (1121-CPD-BA0053)
and Certificate of Conformity of the Factory Production Control**

8. Declared performance table: According to EN 13162:2012

Essential Characteristics	Performance	Abbrev.	Unit	Declared Performance					
				Modular Roll	Modular Roll	Modular Roll	Modular Roll	Modular Roll	Modular Roll
Product Name				Modular Roll	Modular Roll	Modular Roll	Modular Roll	Modular Roll	Modular Roll
Product Code				5200625552	5200625550	5200625416	5200625548	5200625351	5200625353
Reaction to fire	Reaction to fire	RtF	Euroclass	A1	A1	A1	A1	A1	A1
Release of dangerous substances	Release of dangerous substances			NPD					
Acoustic absorption index	Sound absorption			NPD					
Impact noise transmission index	Dynamic stiffness			NPD					
	Thickness	d_l		NPD					
	Compressibility	c		NPD					
	Air flow resistivity	AF_r		NPD					
Direct airborne sound insulation index	Air flow resistivity	AF_r		NPD					
Continuous glowing combustion	Continuous glowing combustion			NPD					
Thermal resistance	Thermal resistance	R_D	$m^2 K/W$	1.15	1.35	1.35	1.60	1.85	2.30
	Thermal conductivity	λ_D	$W/m K$	0.043	0.043	0.043	0.043	0.043	0.043
	Thickness	d_N	mm	50	60	60	70	80	100
	Thickness class	Ti		T1	T1	T1	T1	T1	T1
Water permeability	Short term water absorption	W_p	kg/m^2	NPD					
	Long term water absorption	W_{lp}		NPD					
Water vapour permeability	Water vapour transmission	t or Z		NPD					
Compressive strength	Compressive stress or compressive strength	CS		NPD					
	Point load	F_p		NPD					
Durability of reaction to fire against heat, weathering, ageing/ degradation	Durability characteristics (a) (b)			NPD					
Durability of thermal resistance against heat, weathering, ageing/ degradation	Thermal resistance (c)	R_D	$m^2 K/W$	1.15	1.35	1.35	1.60	1.85	2.30
	Thermal conductivity (c)	λ_D	$W/m K$	0.043	0.043	0.043	0.043	0.043	0.043
	Durability characteristics (d)	d		NPD					
Tensile/fluxural strength	Tensile strength perpendicular to faces (e)	TR		NPD					
Durability of compressive strength against heat, weathering, ageing/ degradation	Compressive Creep	Xct, Xt		NPD					

- (a) No change in reaction to fire properties for mineral wool products.
- (b) The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.
- (c) Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.
- (d) For dimensional stability thickness only.
- (e) This characteristic also covers handling and installation.

Essential Characteristics	Performance	Abbrev.	Unit	Declared Performance		
				Low E Frame Batt	MHI Roll-3x400	MHI Roll-1200
Product Name				Low E Frame Batt	MHI Roll-3x400	MHI Roll-1200
Product Code				5200625327	5200625574	5200625362
Reaction to fire	Reaction to fire	RtF	Euroclass	A2	A1	A1
Release of dangerous substances	Release of dangerous substances			NPD		
Acoustic absorption index	Sound absorption			NPD		
Impact noise transmission index	Dynamic stiffness			NPD		
	Thickness	d_i		NPD		
	Compressibility	c		NPD		
	Air flow resistivity	AF_r		NPD		
Direct airborne sound insulation index	Air flow resistivity	AF_r		NPD		
Continuous glowing combustion	Continuous glowing combustion			NPD		
Thermal resistance	Thermal resistance	R_D	$m^2 K/W$	1.55	0.65	0.65
	Thermal conductivity	λ_D	$W/m K$	0.032	0.037	0.037
	Thickness	d_N	mm	50	25	25
	Thickness class	T_i		T4	T1	T1
Water permeability	Short term water absorption	W_p	kg/m^2	NPD		
	Long term water absorption	W_{ip}		NPD		
Water vapour permeability	Water vapour transmission	t or Z		NPD		
Compressive strength	Compressive stress or compressive strength	CS		NPD		
	Point load	F_p		NPD		
Durability of reaction to fire against heat, weathering, ageing/ degradation	Durability characteristics (a) (b)			NPD		
Durability of thermal resistance against heat, weathering, ageing/ degradation	Thermal resistance (c)	R_D	$m^2 K/W$	1.55	0.65	0.65
	Thermal conductivity (c)	λ_D	$W/m K$	0.032	0.037	0.037
	Durability characteristics (d)	d		NPD		
Tensile/fluxural strength	Tensile strength perpendicular to faces (e)	TR		NPD		
Durability of compressive strength against heat, weathering, ageing/ degradation	Compressive Creep	Xct, Xt		NPD		

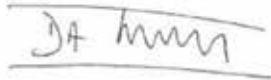
- (a) No change in reaction to fire properties for mineral wool products.
- (b) The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.
- (c) Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.
- (d) For dimensional stability thickness only.
- (e) This characteristic also covers handling and installation.

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with the product complies

N/A

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. 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:



**David Travill
Managing Director**

1st July 2013 *(Place and date of issue)*