Declaration of performance
DoP-NL-01-WH17-Xire E-board

Identification Code	IsoBouw Xire-E-board	
Identification	EPS EN 13163-L(3)-W(3)-T(2)-CS(10)100-TR150	
Intended use	Insulation panel for facades	
Manufacturer	IsoBouw Systems bv Postbus 1 NL-5710 AA Someren Tel +31-(0)493-498111 email: info@isobouw.nl www.isobouw.nl	
Harmonised standard	EN 13163:2012+A1:2015	
System AVCP	System 3	
Notified Body	NB 1640	
Essential characteristics Performance	**Performance**	
Thermal resistance Rd	Thermal resistance R_D at thickness d thermal conductivity λ_D thickness d_N	60 mm:1,35 m^2K/W 80 mm:1,85 m^2K/W 0,043 W/mK d_N 60mm T(2) d_N 80mm T(2)
Brandgedrag	Reaction to fire RtF	D-s2,do
Durability of reaction to fire against heat, weathering, ageing/degradation.	Durability characteristics	NPD
Durability of thermal resistance against heat, weathering, ageing/degradation **	Thermal resistance R_D at thickness d thermal conductivity λ_D Durability characteristics	60 mm:1,35 m^2K/W 80 mm:1,85 m^2K/W 0,043 W/mK NPD
Compressive strength	Compressive stress CS	CS(10)100
Tensile / Flexural strength	Bending strength BS Tensile strength perpendicular to faces TR	NPD TR150
Durability of Compressive strength against heat, weathering, ageing/ degradation.	Compressive creep	NPD
Water permeability	Long term water absorption by immersion Long term water absorption by diffusion	NPD NPD
Water vapour permeability	Water vapour transmission	NPD
Impact noise transmission index (for floors)	Dynamic stiffness Thickness Compressibility	NPD NPD NPD
Continuous glowing combustion	Continuous glowing combustion ***	Passed
Release of dangerous substances to the indoor environment	Release of dangerous Substances (no hEN method available)	NPD
NPD = No Performance Determined		

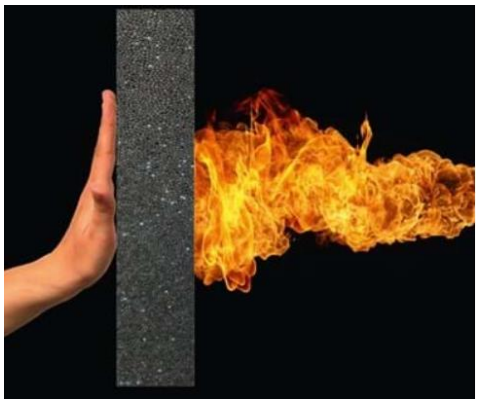
* The Fire reaction performance of EPS does not decrease with time.
** The thermal resistance properties of EPS do not change with time.
*** External PTD performed according to EN 16733 test method for smouldering behavior (no hEN test method).

Someren 24 – 02 - 2025 (Replaces all previous ones)

Signed on behalf of the manufacturer

M. van de Burgt
Managing Director

Technical Datasheet Xire E-board



Material

EPS coated with intumescent polymeric carbon foam

Application

Fire proof insulation panel for facades
For use as a fire barrier in brick slip façade systems

Product characteristics

Width:	1200 mm
Length:	1000 mm
Thickness:	60mm and 80mm
Heat resistance λd :	0.043 W/m·K
Compressive strength(10% compression):	100 kPa

Fire properties:

Reaction to fire classification

Classification: D-s2,d0
Report no.: 2024-Efectis-R001505
Normative references: EN 13163:2012+A1:2015, EN 13501-1 13823:2020+A1:2022

Continuous glowing combustion EN 16733

EN 16733 reaction to fire test: Temperature is measured 5 cm inside the 10 cm thick sample, behind the burned surface, during 15 minutes burner flame exposure of the insulation material.

Xire E-board exhibits the following characteristics after 15min of exposure to fire according to EN 16733:

- Flaming of the specimen surface: No flaming
- Maximum temperature of thermocouple nr.1: <180°C
- No continuous glowing combustion: Pass

Report no.: 2025-Efectis-R000142
Normative references: EN 13163:2012+A1:2015, EN 16733

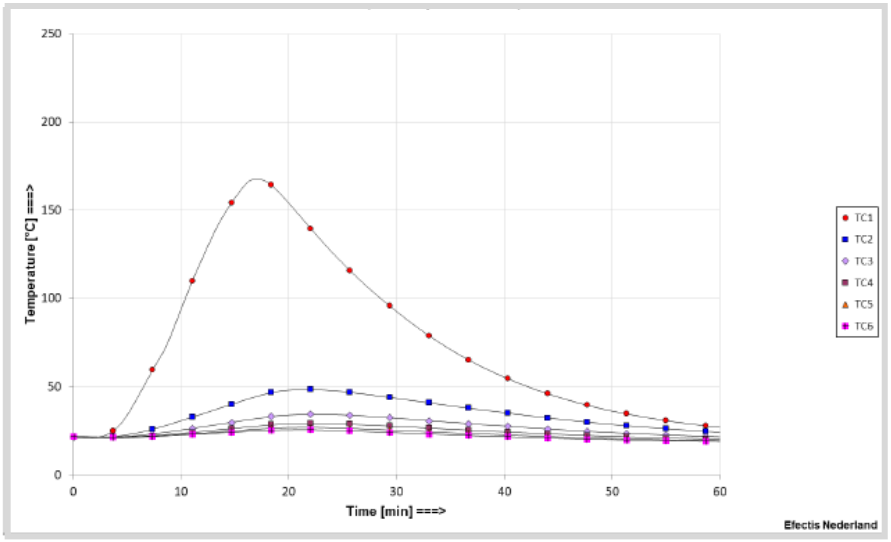
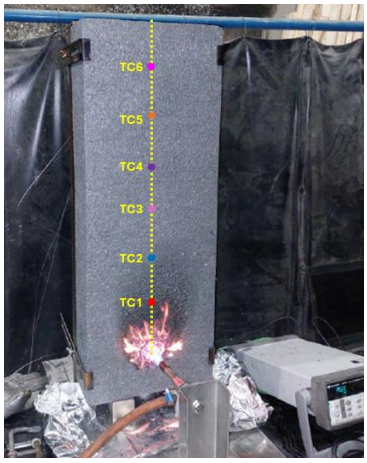


Figure: example of graph of the temperatures 5cm inside sample recorded by each thermocouple with time during En 16733 firetest.



Picture: EN 16733 test on Xire E-board sample