Paroc Panel System

FIRE SAFETY

PAROC insulated panels are a reliable choice wherever fireproof materials are required to protect life and property

PANEL INFO

FIRE PROOF PANELS

One of the key advantages of the Paroc Panel is its fire performances. For fire classification purposes test methods are developed for:

REACTION TO FIRE

classification of Paroc Panels according to standard EN 13501-1

For our products the following classes are generally relevant:

All stone wool types: A1 Paroc Panels*: A2-s1,d0

*exceptions: Paroc Print: C-s1,d0 Acoustic: NPD

What does it mean?

Building materials classified in classes reaching from A1 to F.In addition to this letter, it will be classified also with additional letters s1-3 and d0-2.

A1, A2, B, C, D, E, F:

Contribution to fire. **A**: no contribution at no stage in fire. **F**: not able to reach any class.

sX:

s2: total smoke production and speed is in line with certain limitations. **s1** are all results better than this, **s3** are all results worse than this (no limitations)

dX:

d0: no burning droplets or items
d1: no burning droplets or items that lasts for a certain amount of time
d2: no limitation on burning droplets or items.

FIRE RESISTANCE

The declared fire resistance classes are given in our Declaration of Performance for the CE-marking. There are different DoPs for the different panel types. For the following panel types we have no Fire Resistance classifications (NPD = No Performance Determined):

- Acoustic (when perforation is on the non exposed side)

In planning and construction it is important to take in to account the load bearing section to which the panels are fixed meet the fire resistance requirement needed. After delamination of the fire exposed facing the dead load of the panels is carried by the support structure.

Fire installation details are given by request or on Paroc Panel System websites.

Paroc Panel System is not responsible in specific projects, requirements and classification must always be controlled by responsible body.

Maximum span lengths in fire resistance classified walls are given in table 1.

EI classification is the most common classification of sandwich panels. Paroc Panel System have also a solution for M-classification (EI120-M), called Impact Panels. Please contact Paroc Panel System for information.

What does it mean?

Resistance to fire performance characteristics are given byEN 13501-2:2016:

R – loadbearing capacity

E – Integrity

The ability to withstand fire exposure without transmission of the fire asa result of the passage of flames or hot gases

I – Thermal insulation

The ability to withstand fire exposure without transmission of the fire as a result of significant transfer of heat

M – Mechanical action – resistance to impact

The ability of the element to withstand impact representing the case where structural failure of another component in a fire causes an impact on the element concerned

WALLS

HOR/VERT

Panel type	Panel thickness mm	MAXIMUM SPAN, HORISONTAL/VERTICAL							
		EI15	EI30	EI45	EI60	EI90	EI120	EI180	EI240
AST L	150	12/12	12/12	12/12	12/11,1	11,7/10,6	9,9/10,6	-/4	
	175	12/12	12/12	12/12	12/11,1	11,7/10,6	9,9/10,6	-/4	
	200	12/12	12/12	12/12	12/11,1	11,7/10,6	9,9/10,6	-/4	
	240-300	12/12	12/12	12/12	12/11,1	11,7/10,6	9,9/10,6	-/4	
AST T	80	4/4	4/4						
	100	4/12	4/12	4/4					
	120	4/12	4/12	4/12	4/4	-/4			
	150	12/12	12/12	12/12	4/4	-/4	-/4		
	175	12/12	12/12	12/12	11/11	4/4	4/4	4/4	
	200	12/12	12/12	12/12	11/11	4/4	4/4	4/4	
	240-300	12/12	12/12	12/12	11/11	4/12	4/4	4/12	4/4
AST S	80	4/11	4/11						
	100	4/12	4/12	4/11	4/4				
	120	4/12	4/12	4/11	4/11	4/4			
	150	12/12	12/12	12/11	11/11	11/4	11/4	11/4	
	175	12/12	12/12	12/11	11/11	11/4	11/4	11/4	
	200	12/12	12/12	12/12	11/12	11/12	11/12	11/12	4/4
	240-300	12/12	12/12	12/12	11/12	11/12	11/12	11/12	4/4
AST S+	100	12/12	12/11,7	11,8/8,7	11,3/8,2	3/8,2	3/3		
	120	12/12	12/11,7	11,8/8,7	11,3/8,2	3/8,2	3/8		
AST F	80	4/11	4/11	4/4	-/4	-/4			
	100	12/12	12/12	11/12	-/12	-/12	-/4		
	120	12/12	12/12	11/12	-/12	-/12	-/12		
	150	12/12	12/12	12/12	12/12	11/12	11/12	9/4	9/4
	175	12/12	12/12	12/11	12/12	11/12	11/12	9/4	9/4
	200	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12
	240-300	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12
AST F+	100	12/12	12/12	12/10,3	12/9,8	11,7/9,8	3/9,8		
	120	12/12	12/12	12/10,3	12/9,8	11,7/9,8	3/9,8		
AST E	50	4/11	4/4	4/4					
	80	4/11	4/11	4/4	-/4	-/4			
	100	12/12	12/12	11/12	-/12	-/12	-/4		
	120	12/12	12/12	11/12	-/12	-/12	-/12		
	150	12/12	12/12	12/12	12/12	11/12	11/12	9/4	9/4
	175	12/12	12/12	12/11	12/12	11/12	11/12	9/4	9/4
	200	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12
	240-300	12/12	12/12	12/12	12/12	12/12	12/12	12/12	12/12
AST S Shadow (Delign)	200	12/-	12/-	12/-	12/-	12/-	12/-	11,7/-	
	240-300	12/-	12/-	12/-	12/-	12/-	12/-	11,7/-	
AST E CEILING	100	8,0	7,6	6,2	5,6				
	120	8,0	8,0	6,7	5,8				
	150	8,0	8,0	7,6	6,4	5,2			
	175-300	8,0	8,0	7,6	6,4	5,2			

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