

Certificate of Product Approval

Certificate Number: 381a

Issue: 14

KINGSPAN OY

Halmeenkatu 7
Kankaanpää
FI-38700
Finland



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) as detailed below:

Products

Sandwich Panel Systems

Paroc AST-F, Paroc AST-S, Paroc AST-L & AST-T Wall Panels

Paroc AST-S, Paroc AST-E & Paroc AST-F Shadow Wall Panels & Paroc AST-E Ceiling Panels

Standards

LPS 1208: Issue 2.2

LPCB fire resistance requirements for elements of construction used to provide compartmentation.

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Signed for BRE Global Ltd.

Vida Gaubsaite

Certification Scheme Manager

17 June 2020

Date of Issue

23 February 1999

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Appendix to Certificate No: 381a KINGSPAN OY

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Product Name	Specification Thickness (mm)	Maximum Unsupported Span (m)	Wall Panel Orientation (H/V) (note 1)	Fire Resistance (mm) Integritiy/Insulation	Grade	Core Material	LPCB Ref. No.
PAROC AST-F	50	4.6	V	30/30	FR30	Mineral Wool	381a/01
		7.5	V	30/30	FR30	Mineral Wool	
	80	4.9	V	60/60	FR60	Mineral Wool	
		4.0	V	90/90	FR90	Mineral Wool	
	100	7.5	V	30/30	FR30	Mineral Wool	
		6.6	V	60/60	FR60	Mineral Wool	
		4.4	V	90/90	FR90	Mineral Wool	
		4.0	V	120/120	FR120	Mineral Wool	
	120	7.5	V	30/30	FR30	Mineral Wool	
		7.5	V	60/60	FR60	Mineral Wool	
		6.4	V	90/90	FR90	Mineral Wool	
		4.8	V	120/120	FR120	Mineral Wool	

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	150 - 300	4.0	V	180/180	FR180	Mineral Wool	
		7.5	V	30/30	FR30	Mineral Wool	
		7.5	V	60/60	FR60	Mineral Wool	
		7.5	V	90/90	FR90	Mineral Wool	
		7.1	V	120/120	FR120	Mineral Wool	
		4.7	V	180/180	FR180	Mineral Wool	
		4.0	V	240/240	FR240	Mineral Wool	
	50 – 80	4.0	H	30/30	FR30	Mineral Wool	
	80 – 150	4.0	H	60/60	FR60	Mineral Wool	
		4.0	H	90/90	FR90	Mineral Wool	
		4.0	H	120/120	FR120	Mineral Wool	
		4.0	H	240/240	FR240	Mineral Wool	

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	150 - 300	7.5	H	30/30	FR30	Mineral Wool	
		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	
		7.5	H	120/120	FR120	Mineral Wool	
		7.5	H	180/180	FR180	Mineral Wool	
		7.5	H	240/240	FR240	Mineral Wool	
PAROC AST-S (Wall Panel)	80	5.1	V	30/30	FR30	Mineral Wool	381a/02
		4.0	V	60/30	FR30	Mineral Wool	
	100	6.7	V	30/30	FR30	Mineral Wool	
		4.0	V	60/60	FR60	Mineral Wool	
	120	7.5	V	30/30	FR30	Mineral Wool	
		6.9	V	60/60	FR60	Mineral Wool	

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		4.6	V	90/90	FR90	Mineral Wool	
		4.0	V	120/120	FR120	Mineral Wool	
	150 - 300	7.5	V	30/30	FR30	Mineral Wool	
		7.5	V	60/60	FR60	Mineral Wool	
		7.5	V	90/90	FR90	Mineral Wool	
		6.1	V	120/120	FR120	Mineral Wool	
		4.1	V	180/180	FR180	Mineral Wool	
		4.0	V	240/240	FR240	Mineral Wool	
	80 – 120	4.0	H	30/30	FR30	Mineral Wool	
		4.0	H	60/60	FR60	Mineral Wool	
		4.0	H	90/90	FR90	Mineral Wool	
		4.0	H	120/120	FR120	Mineral Wool	

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		4.0	H	240/240	FR240	Mineral Wool	
		7.5	H	30/30	FR30	Mineral Wool	
		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	
		7.5	H	120/120	FR120	Mineral Wool	
		3.0	H	180/180	FR180	Mineral Wool	
PAROC AST-E (Ceiling Panel)	100 – 120	8.2	-	30/30	FR30	Mineral Wool	381a/04
		6.5	-	60/60	FR60	Mineral Wool	
	150 – 300	8.0	-	30/30	FR30	Mineral Wool	
		6.4	-	60/60	FR60	Mineral Wool	
		5.2	-	90/90	FR90	Mineral Wool	
	80	4.0	V	30/30	FR30	Mineral Wool	381a/05

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PAROC AST-T (wall panel)	100	5.1	V	30/30	FR30	Mineral Wool	
	120	7.5	V	30/30	FR30	Mineral Wool	
		7.3	V	60/60	FR60	Mineral Wool	
		4.8	V	90/90	FR90	Mineral Wool	
		4.0	V	120/120	FR120	Mineral Wool	
		7.5	V	30/30	FR30	Mineral Wool	
	150 - 300	7.5	V	60/60	FR60	Mineral Wool	
		7.5	V	90/90	FR90	Mineral Wool	
		7.1	V	120/120	FR120	Mineral Wool	
		4.7	V	180/180	FR180	Mineral Wool	
		4.0	V	240/240	FR240	Mineral Wool	
	80 - 300	4.0	H	30/30	FR30	Mineral Wool	

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		4.0	H	60/60	FR60	Mineral Wool	
		4.0	H	90/90	FR90	Mineral Wool	
		4.0	H	120/120	FR120	Mineral Wool	
		4.0	H	240/240	FR240	Mineral Wool	
PAROC AST-L (wall panel)	150 - 300	7.5	V	30/30	FR30	Mineral Wool	381a/06
		7.5	V	60/60	FR60	Mineral Wool	
		7.5	V	90/90	FR90	Mineral Wool	
		7.5	V	120/120	FR120	Mineral Wool	
		4.0	V	180/180	FR180	Mineral Wool	
	150 - 300	7.5	H	30/30	FR30	Mineral Wool	
		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	

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		6.0	H	120/120	FR120	Mineral Wool	
PAROC AST-S SHADOW (wall panel)	200 - 300	7.5	H	30/30	FR30	Mineral Wool	381a/07
		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	
		7.5	H	120/120	FR120	Mineral Wool	
		3.0	H	180/180	FR180	Mineral Wool	
PAROC AST-E SHADOW (wall panel)	200 - 300	7.5	H	30/30	FR30	Mineral Wool	381a/08
		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	
		7.5	H	120/120	FR120	Mineral Wool	
		4.0	H	180/180	FR180	Mineral Wool	
	200 - 300	7.5	H	30/30	FR30	Mineral Wool	381a/09

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PAROC AST-F SHADOW (wall panel)		7.5	H	60/60	FR60	Mineral Wool	
		7.5	H	90/90	FR90	Mineral Wool	
		7.5	H	120/120	FR120	Mineral Wool	
		4.0	H	180/180	FR180	Mineral Wool	

Notes:

1. Wall orientation, Horizontal or Vertical (H/V), relates to the long joint orientation.
2. LPCB ref 381a/01, /02 and /05 up to 4m span, when panels are laid with the long joint in the horizontal orientation the joints shall be stitched on the internal and external face at nominal 150mm centres.
3. LPCB ref 381a/06, 381a/07, 381a/08 and 381a/09 up to 7.5m span, when panels are laid with the long joint in the horizontal orientation the joints shall be stitched on the internal and external face at nominal 450mm centres.
4. Approved Manufacturers
The following Company manufactures the products listed on this certificate. The Company is audited by the LPCB to ensure the product certification requirements are met.
This certificate covers manufacture at factory site –

Kingspan Oy, Paroc Panel System,
Sysilahden teollisuusalue 2,
FI-21600
Parinen,
Finland

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