

Declaration of Performance

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1 Unique identification code of the product type: | QuadCore IND
1018 |
| 2 Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: | Insulated sandwich panel for roofs, walls and ceiling |
| 3 Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article: | See product label and marking on panel |
| 4 Name registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): | Isocab France SAS,
142 Rue Panhard et Levassor,
66000 Perpignan, France |
| 5 Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): | Not relevant |
| 6 System of assessment and verification of constancy of performance of the construction product as set out in Annex | System 3 |
| 7 In case of the declaration of performance concerning a construction product covered by a harmonised standard: | EN 14509:2013 |
| 8 In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: | Not relevant |
| 9 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 10: | |

This declaration of performance is issued under the sole responsibility of Kingspan Limited.

Signed on behalf of Kingspan Insulated Panels by:



Place and date: Kingscourt Oct 2018

Name: Gareth McDonald

Position: R&D Engineer



18 EN 14509:2013 AVCP3

10 Declared performance for

QuadCore IND

I018

Thickness in mm	60	80	100	120	140	170	200	220	Harmonised Technical Specification
Thermal transmittance (W/m²K)									
External wall	0.299	0.224	0.179	0.150	0.128	0.106	0.090	0.082	EN 14509:2013
Partition	0.291	0.220	0.177	0.148	0.127	0.127	0.089	0.081	
Ceiling	0.297	0.223	0.178	0.149	0.128	0.105	0.090	0.081	
Roof	0.302	0.226	0.180	0.150	0.129	0.106	0.090	0.082	
Mass (Kg/m²)	10.72	11.52	12.32	13.12	13.92	15.12	16.32	17.12	
Wrinkling Stress (MPa)									
External span	164	164	164	164	160	154	148	208	EN 14509:2013
External span (High temp)	157	157	157	157	153	148	142	176	
External central support	115	115	115	115	112	108	104	144	
External central support (High temp)	110	110	110	110	108	104	100	128	
Internal span	164	164	164	164	160	154	148	118	
Internal central support	131	131	131	131	128	123	118	115	
Bending moments (kNm/m)									
External span	4.49	6.00	7.51	9.02	10.27	12.01	13.58	14.82	EN 14509:2013
External span (High temp)	4.30	5.74	7.19	8.63	9.82	11.54	13.03	12.54	
External central support	3.15	4.21	5.27	6.32	7.19	8.42	9.55	10.26	
External central support (High temp)	3.01	4.02	5.04	6.05	6.93	8.11	9.18	9.12	
Internal span	4.49	6.00	7.51	9.02	10.27	12.01	13.58	8.41	
Internal central support	3.59	4.79	6.00	7.20	8.22	9.59	10.83	8.19	
* Fire behaviour									
Resistance to fire	NPD								EN 13501-2
Reaction to fire	B-s1,d0								EN 13501-1
Material properties - All thicknesses									
Shear strength ≥ (MPa)	0.08								EN 10346
Shear modulus ≥ (MPa)	3.05								
** External steel gauge	Min 0.5mm								
** Internal Steel gauge	Min 0.5mm								
External coatings (Steel)	Polyester 25µm HDP 25µm and 35µm Polyurethane 35µm and 55µm Plastisol 200µm PVDF 25µm and 35µm								EN 10169
Internal coating	Polyester 15µm, 25µm HDP 25µm and 35µm PVDF 25µm and 35µm Polyurethane 35µm and 55µm PET 55µm PVC 120µm								EN10169
Internal coatings (Stainless steel)	PVDF 55µm Lampre A490PP PVC +PET								EN 14509:2013
External and Internal steel grade	320								EN 10346:2013
Density (kg/m ³)	34 - 46								EN 14509:2013
Thermal conductivity (W/mk)	0.018								
Tensile strength ≥ (MPa)	0.07				0.05				
Compressive strength ≥ (MPa)	0.11								
Creep coefficient t = 2000hrs	3.00								
Creep coefficient t = 100000hrs	5.00								
Water permeability	NPD								
Air permeability (m/h/m ² @ 50pa)	NPD								
Water vapour permeability	Impermeable								

* Fire classifications are subject to method of assembly, orientation and steel coating. Please consult Technical Department for details

** Thicker steel gauges are available on request