

## Datablad thermische\* prestaties panelen Quad Core IND Isocab volgens EN14509

	Thickness [mm]	40	60	80	100	120	140	170	200	220
Standard rib skins	Wall $U_{n,s}$ [W/m <sup>2</sup> .K]	0,436	0,294	0,222	0,178	0,148	0,127	0,105	0,089	0,081
	Wall R [W/m <sup>2</sup> .K]	2,294	3,401	4,505	5,618	6,757	7,874	9,524	11,236	12,346
	Partition Wall $U_{n,s}$ [W/m <sup>2</sup> .K]	0,420	0,287	0,217	0,175	0,147	0,126	0,104	0,089	0,081
	Partition Wall R [m <sup>2</sup> .K/W]	2,381	3,484	4,608	5,714	6,803	7,937	9,615	11,236	12,346
	Ventilated Ceiling $U_{n,s}$ [W/m <sup>2</sup> .K]	0,441	0,297	0,223	0,179	0,149	0,128	0,105	0,090	0,082
	Ventilated Ceiling R [m <sup>2</sup> .K/W]	2,268	3,367	4,484	5,587	6,711	7,813	9,524	11,111	12,195
	Weight (2*0,5mm skins) [kg/m <sup>2</sup> ]	9,92	10,72	11,52	12,32	13,12	13,92	15,12	16,32	17,12
Smooth (no corrugation) skins	Wall $U_{n,s}$ [W/m <sup>2</sup> .K]	0,428	0,290	0,219	0,176	0,147	0,127	0,105	0,089	0,081
	Wall R [W/m <sup>2</sup> .K]	2,336	3,448	4,566	5,682	6,803	7,874	9,524	11,236	12,346
	Partition Wall $U_{n,s}$ [W/m <sup>2</sup> .K]	0,412	0,283	0,215	0,174	0,146	0,125	0,104	0,088	0,080
	Partition Wall R [m <sup>2</sup> .K/W]	2,427	3,534	4,651	5,747	6,849	8,000	9,615	11,364	12,500
	Ventilated Ceiling $U_{n,s}$ [W/m <sup>2</sup> .K]	0,434	0,293	0,221	0,177	0,148	0,127	0,105	0,089	0,081
	Ventilated Ceiling R [m <sup>2</sup> .K/W]	2,304	3,413	4,525	5,650	6,757	7,874	9,524	11,236	12,346

\*=according to CSTB calculation report DEIS/HTO - 2016-186 KZ/LS-28/10/2016. The thermal conductivity used is the  $\lambda_{\text{declared}}$  coming from CE labeling according SALFORD University test report TT15/233. It is equal at 0,0175 W/m.K and taken equal to 0,018 W/m.K for the calculation above.

$U_{n,s} = 1/R$ .  $U_{n,s}$  doesn't take into account interlocking thermal loss and fixing thermal bridge.

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**Aged Core Thermal Conductivity for 100mm IPNQuadCore™ (EN 14509:2013)**

## 1. Introduction

This report provides the aged core thermal conductivity for the core material of 100mm IPNQuadCore™ (Kingspan CFC/HCFC/HFC Free hybrid insulation) in accordance with EN 14509:2013.

## 2. Measured accelerated aged value of thermal conductivity of 100mm IPNQuadCore™ Foam at 10°C

<b>Aged Core Thermal Conductivity W/mK</b>
<b>0.0175</b>

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