

**DECLARATION OF PERFORMANCE**

**Nr. 2016.001. DC (English version)**

1. Unique product identification code: <b>Self-supporting double skin metal faced insulating panels with core of cellular polyurethane DC Panel Type Standard, facings 0.55 mm external, 0.55 mm internal</b>		
2. Type, batch or serial number: <b>Type: DC Panel Type Standard, facings 0.55 mm external, 0.55 mm internal, see CE marking labels on the packaging or the panels</b>		
3. Allocated purpose: <b>Self-supporting double skin metal faced insulating panels for internal and external wall applications and ceiling and roof applications in accordance with EN 14509 :2013</b>		
4. Name and contact of the manufacturer: <b>DC System Insulation A/S Nordvestvej 8 DK-9600 Aars Denmark</b>		
5. Where applicable name and contact of the representative:		
6. Attestation and Verification of Constancy of Performance (AVCP) system according to annex V: <b>AVCP system 4</b>		
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: <b>NB 0370 og NB 1235 performed the initial type testing for the manufacturer and the manufacturer have established a Factory Production Control (FPC) system in accordance with the harmonised standard EN 14509 :2013</b>		
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: <b>Not applicable</b>		
9. Declared performance:		
<b>Essential characteristics</b>	<b>Performance</b>	<b>Harmonised technical specification</b>
Insulation: PUR density	41 kg/m <sup>3</sup> for D=60 mm to 37 kg/m <sup>3</sup> for D=250 mm	DS/EN 14509 :2013
Thickness of the panel	D=60 to D=250 mm	DS/EN 14509 :2013
Facing/coating/thickness	Steel+coating acc. EN 10346,	DS/EN 14509 :2013

	organic coating, 0.55 mm external/0.55 mm internal	
Mass	11.0 kg/m <sup>2</sup> for D=60 mm to 17,8 kg/m <sup>2</sup> for D=250 mm	DS/EN 14509 :2013
Thermal transmittance	0.41 W/m <sup>2</sup> K for D=60 mm to 0.10 W/m <sup>2</sup> K for D=250 mm	DS/EN 14509 :2013
Tensile strength	0.042 MPa	DS/EN 14509 :2013
Shear strength	0.12 for D=60-100 mm 0.10 for D=125-150 mm 0.07 for D=175-250 mm	DS/EN 14509 :2013
Reduced long term shear strength	0.06 MPa for D=60-100 mm 0.050 MPa for D=125-150 mm 0.035 MPa for D=175-250 mm	DS/EN 14509 :2013
Shear modulus (core)	2.1 MPa for D=60-100 mm 1.9 MPa for D=125-150 mm 1.6 MPa for D=175-250 mm	DS/EN 14509 :2013
Compressive strength (core)	0.12 MPa	DS/EN 14509 :2013
Creep coefficient - t=2,000 h - t=100,000 h	2.0 2.2	DS/EN 14509 :2013
Bending resistance in the span - +ve bending  - +ve bending, elevated temperature  - - ve bending  - - ve bending, elevated temperature	4.4 kNm/m for D=60 mm to 11.1 kNm/m for D=250 mm  3.1 kNm/m for D=60 mm to 7.9 kNm/m for D=250 mm  4.4 kNm/m for D=60 mm to 11.1 kNm/m for D=250 mm  3.1 kNm/m for D=60 mm to 7.9 kNm/m for D=250 mm	DS/EN 14509 :2013
Bending resistance at an internal support - +ve bending  - +ve bending, elevated temperature  - - ve bending  - - ve bending, elevated temperature	8.0 kNm/m for D=60 mm 16.7 kNm/m for D=250 mm  5.7 kNm/m for D=60 mm 11.9 kNm/m for D=250 mm  8.0 kNm/m for D=60 mm 16.7 kNm/m for D=250 mm  5.7 kNm/m for D=60 mm 11.9 kNm/m for D=250 mm	DS/EN 14509 :2013
Wrinkling stress (external/internal face) - in span  - in span, elevated temperature	120 MPa for D=60 mm to 90 MPa for D=250 mm  85 MPa for D=60 mm to 65 MPa for D=250 mm	DS/EN 14509 :2013
Reaction to fire	Class F	DS/EN 14509 :2013
Fire resistance	NPD	DS/EN 14509 :2013
External fire performance	Class F <sub>ROOF</sub>	DS/EN 14509 :2013
Water permeability	NPD	DS/EN 14509 :2013
Air permeability	NPD	DS/EN 14509 :2013
Water vapour permeability	Impermeable	DS/EN 14509 :2013
Durability	Pass – all colours	DS/EN 14509 :2013

Resistance to point loads	Suitable for repeated loads with additional protection	DS/EN 14509 :2013
<p>Where pursuant to Article 37 or 38, the Specific Technical Documentation has been used, the requirements with which the product complies:</p> <p><b>Not applicable</b></p>		
<p>10. The performance of the product in accordance with point 1 and 2 corresponds to the declared performance in point 9. Responsible for creating this declaration of performance is only the manufacturer referred to in point 4 (or 5).</p> <p>Signed on behalf of the manufacturer and in the name of the manufacturer by:</p> <p style="text-align: center;">.....  <b>DIREKTØR JOHN ANDERSEN</b>  .....  (name and function)</p> <p><b>AARS Ø 13-07-2016</b> .....  (issue place and date)</p> <p style="text-align: right;">.....  <i>John Andersen</i>  .....  (signature)</p>		