CE

DECLARATION OF PERFORMANCE
No. 72

1. Unique identification code of product type:

Sandwich panel Arc with polyisocyanurate core

Arc 80
Arc 100
Arc 125
Arc 150

2. Intended use: Self-supporting metal faced insulating panels for use in buildings; external walls and internal walls.

3. Manufacturer: Ruukki Sverige AB
Ulf Östlings väg/Östra sidan, Brygga 16-1, 78472 Borlänge, Sweden

4. Authorized representative: not applicable

5. AVCP level: reaction to fire, fire resistance: 3; other properties: 4

6a. Harmonised standard: EN 14509:2013 “Self-supporting double skin metal faced insulating panels. Factory made products. Specifications”

Notified body: Instytut Techniki Budowlanej (ITB) (1488)
Fire-lab Sp. z o.o. (2904)

7. Declared performances: Technical product characteristics of specified product configuration are available in attachments to this Declaration of Performance.

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

This Declaration of Performance is available on Ruukki web page:
https://www.ruukki.com/building-envelopes/services-support/sandwich-panel-support/declaration-of-performance-for-sandwich-panels

Signed for and on behalf of the manufacturer by:

Elżbieta Płaza
Certification Manager
Ruukki Construction

Helsinki, 20.11.2026

Attachment 1 to Declaration of Performance 72

Panel type	**Arc**					
Reference to harmonized standard:	EN 14509:2013					
Intended use:	Internal or external walls, single span					
Panel name:	**Arc 80**	**Arc 100**	**Arc 125**	**Arc 150**	Reference	
Year when CE mark was affixed:	26					
Thickness of external facing:	0,5 - 0,6				mm	(EN 10143)
External facing - steel grade:	S280GD+Z275					(EN 10346)
Coating of external facing:	Polyester, GreenCoat Pural BT , GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2					(EN 10169)
External facing profile:	L50, M15, R200, F					
Thickness of internal facing:	0,5 - 0,6				mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100					(EN 10346)
Coating of internal facing:	Polyester, GreenCoat Pural BT , GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2					(EN 10169)
Internal facing profile:	L25, L50, R200, F					
Core material:	PIR					
Density of core material:	39				kg/m^3	
Nominal panel thickness:	80	97	125	152	mm	
Mass:	13.1	13.8	14.9	15.9	kg/m^2	
Mechanical resistance:						
Tensile strength:	0.08	0.082	0.085	0.085	MPa	
Shear strength:	0.095	0.09	0.085	0.08	MPa	
Reduced long term shear strength:	NPD				MPa	
Shear modulus (core):	3.5	3.0	3.0	3.0	MPa	
Compressive strength (core):	0.085	0.08	0.085	0.085	MPa	
Creep coefficient t=2000h:	NPD					
Creep coefficient t=100000h:	NPD					
Wrinkling strength (external face) at profiling L50:						
- in span	-	130	130	-	MPa	
- in span, elevated temperature	-	117	117	-	MPa	
Wrinkling strength (external face) at profiling M15:						
- in span	130	130	130	130	MPa	
- in span, elevated temperature	117	117	117	117	MPa	
Wrinkling strength (external face) at profiling R200:						
- in span	100	95	100	100	MPa	
- in span, elevated temperature	90	85	90	90	MPa	
Wrinkling strength (external face) at profiling F:						
- in span	90	90	90	90	MPa	
- in span, elevated temperature	81	81	81	81	MPa	
Wrinkling strength (internal face) at profiling L25:						
- in span	170	170	170	170	MPa	
Wrinkling strength (internal face) at profiling L50:						
- in span	-	130	130	-	MPa	
Wrinkling strength (internal face) at profiling R200:						
- in span	100	95	100	100		
Wrinkling strength (internal face) at profiling F						
- in span	90	90	90	90	MPa	
Other properties:						
Thermal transmittance, $U_{d,s}$:	0.26	0.22	0.17	0.14	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.021				W/mK	
Reaction to fire:	B-s1, d0				Class	(EN 13501-1)
Fire resistance (wall):	NPD		EI 15	EI 30	Class	(EN 13501-2)
External fire performance:	Not applicable					
Water permeability:	A				Class	(EN 12865)
Air permeability:	NPD					
Water vapour permeability:	Impermeable					
Airborne sound insulation, $R_w(C; C_{tr})$:	26 (-3; -5)				dB	(EN ISO 717-1)
Sound absorption, α_w:	0.10			0.15		(EN ISO 11654)
Durability:	Pass - all colours					

Detailed product/material specification is given on order confirmation or delivery documentation.