CE

DECLARATION OF PERFORMANCE
No. 80

1. Unique identification code of product-type:

Sandwich panel nSPB Firewall (structural system) with mineral wool core

nSPB200 Firewall nSPB230 Firewall	nSPB200B Firewall nSPB230B Firewall	nSPB200A Firewall

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

Detailed intended use refers to the sandwich panel type – information in attachment to this declaration.

3. Manufacturer: Ruukki Polska Sp. z o.o., ul. Jaktorowska 13, 96-300 Żyrardów, Poland
Oborniki branch, ul. Łukowska 7, 64-600 Oborniki, Poland

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)
FIRES S.R.O. (1396)
Eurofins Expert Services Oy (0809)

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, 25.09.2026

Declared technical characteristics of specified type of sandwich panels are available on the following pages:

Attachment 1 to Declaration of Performance 80

Panel type:	**nSPB Firewall**			
Reference to harmonized standard:	EN 14509:2013			
Intended use:	External walls, internal walls (single spans)			
Panel name:	**nSPB200 Firewall**	**nSPB230 Firewall**	Reference	
Year when CE mark was affixed:	26			
Thickness of external facing:	0.70		mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095			(EN 10346)
Coating on external facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2			(EN 10169)
External facing profile (module 1100 mm):	L, M, R28, R275, R550, F		mm	
Thickness of internal facing:	0.70		mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095			(EN 10346)
Coating on internal facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2			(EN 10169)
Internal facing profile:	L, F		mm	
Core material:	MW			
Density of core material:	125		kg/m^3	
Nominal panel thickness:	203	230	mm	
Mass:	37.1	40.6	kg/m^2	
Mechanical resistance:				
Tensile strength:	0.130	0.130	MPa	
Shear strength:	0.076	0.064	MPa	
Reduced long term shear strength:	0.030	0.026	MPa	
Shear modulus (core):	6.0	6.0	MPa	
Compressive strength:	0.115	0.115	MPa	
Creep coefficient t=2000h:	NPD (not applicable)			
Creep coefficient t=100000h:	NPD (not applicable)			
Wrinkling strength (external face) at profiling L, M:				
- in span:	165	151	MPa	
- in span, elevated temperature:	150	136	MPa	
Wrinkling strength (external face) at profiling R28, R275, R550, F:				
- in span:	120	120	MPa	
- in span, elevated temperature:	108	108	MPa	
Wrinkling strength (internal face) at profiling L:				
- in span:	165	151	MPa	
Wrinkling strength (internal face) at profiling F:				
- in span:	120	120	MPa	
Other properties:				
Thermal transmittance, $U_{d,s}$:	0.22	0.19	W/m^{2}K	
Thermal conductivity of the core; λ_{Design}:	0.045		W/mK	
Reaction to fire:	A2-s1,d0		Class	(EN 13501-1)
Fire resistance (wall, horizontal orientation):	EI-M 120*		Class	(EN 13501-2)
Water permeability:	A		Class	(EN 12865)
Air permeability, pressure (per 1m^2), panels with gasket:	n = 0.675, C = 0.001			(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	n = 0.273, C = 0.003			(EN 12114)
Water vapour permeability:	Impermeable			
Airborne sound insulation; R_w (C:C_{tr}):	32 (-2;-4)		dB	(EN ISO 717-1)
Sound absorption; α_w:	0.1			(EN ISO 11654)
Durability; DUR2:	Pass			

Detailed product/material specification is given on order confirmation or delivery documentation.
*When executed as a structural system according to the instructions by manufacturer

Attachment 2 to Declaration of Performance 80

Panel type:	**nSPB Firewall**			
Reference to harmonized standard:	EN 14509:2013			
Intended use:	External walls, internal walls (single spans)			
Panel name:	**nSPB200B Firewall**	**nSPB230B Firewall**	Reference	
Year when CE mark was affixed:	26			
Thickness of external facing:	0.70		mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095			(EN 10346)
Coating on external facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2			(EN 10169)
External facing profile (module 1000 mm):	L, M, R28, R250, R500, F		mm	
Thickness of internal facing:	0.70		mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095			(EN 10346)
Coating on internal facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2			(EN 10169)
Internal facing profile:	L, F		mm	
Core material:	MW			
Density of core material:	125		kg/m^3	
Nominal panel thickness:	203	230	mm	
Mass:	37.1	40.6	kg/m^2	
Mechanical resistance:				
Tensile strength:	0.130	0.130	MPa	
Shear strength:	0.076	0.064	MPa	
Reduced long term shear strength:	0.030	0.026	MPa	
Shear modulus (core):	6.0	6.0	MPa	
Compressive strength:	0.115	0.115	MPa	
Creep coefficient t=2000h:	NPD (not applicable)			
Creep coefficient t=100000h:	NPD (not applicable)			
Wrinkling strength (external face) at profiling L, M:				
- in span:	165	151	MPa	
- in span, elevated temperature:	150	136	MPa	
Wrinkling strength (external face) at profiling R28, R250, R500, F:				
- in span:	120	120	MPa	
- in span, elevated temperature:	108	108	MPa	
Wrinkling strength (internal face) at profiling L:				
- in span:	165	151	MPa	
Wrinkling strength (internal face) at profiling F:				
- in span:	120	120	MPa	
Other properties:				
Thermal transmittance, $U_{d,s}$:	0.22	0.19	W/m^{2}K	
Thermal conductivity of the core; λ_{Design}:	0.045		W/mK	
Reaction to fire:	A2-s1,d0		Class	(EN 13501-1)
Fire resistance (wall, horizontal orientation):	EI-M 120*		Class	(EN 13501-2)
Water permeability:	A		Class	(EN 12865)
Air permeability, pressure (per 1m^2), panels with gasket:	n = 0.675, C = 0.001			(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	n = 0.273, C = 0.003			(EN 12114)
Water vapour permeability:	Impermeable			
Airborne sound insulation; R_w (C:C_{tr}):	32 (-2;-4)		dB	(EN ISO 717-1)
Sound absorption; α_w:	0.1			(EN ISO 11654)
Durability; DUR2:	Pass			

Detailed product/material specification is given on order confirmation or delivery documentation.
*When executed as a structural system according to the instructions by manufacturer

Attachment 3 to Declaration of Performance 80

Panel type:	**nSPB Firewall**		
Reference to harmonized standard:	EN 14509:2013		
Intended use:	External walls, internal walls (single spans)		
Panel name:	**nSPB200A Firewall**	Reference	
Year when CE mark was affixed:	26		
Thickness of external facing:	0.70	mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095		(EN 10346)
Coating on external facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2		(EN 10169)
External facing profile (module 1200 mm):	L, M	mm	
Thickness of internal facing:	0.70	mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095		(EN 10346)
Coating on internal facing:	Polyester, GreenCoat Hiarc max, GreenCoat Pural BT Satin, GreenCoat Pural BT Metallic or other colour coating with PCS ≤ 4,0 MJ/m^2		(EN 10169)
Internal facing profile:	L	mm	
Core material:	MW		
Density of core material:	125	kg/m^3	
Nominal panel thickness:	203	mm	
Mass:	37.1	kg/m^2	
Mechanical resistance:			
Tensile strength:	0.130	MPa	
Shear strength:	0.076	MPa	
Reduced long term shear strength:	0.030	MPa	
Shear modulus (core):	6.0	MPa	
Compressive strength:	0.115	MPa	
Creep coefficient t=2000h:	NPD (not applicable)		
Creep coefficient t=100000h:	NPD (not applicable)		
Wrinkling strength (external face) at profiling L, M:			
- in span:	165	MPa	
- in span, elevated temperature:	150	MPa	
Wrinkling strength (internal face) at profiling L:			
- in span:	165	MPa	
Other properties:			
Thermal transmittance, $U_{d,s}$:	0.22	W/m^{2}K	
Thermal conductivity of the core; λ_{Design}:	0.045	W/mK	
Reaction to fire:	A2-s1,d0	Class	(EN 13501-1)
Fire resistance (wall, horizontal orientation):	EI-M 120*	Class	(EN 13501-2)
Water permeability:	A	Class	(EN 12865)
Air permeability, pressure (per 1m^2), panels with gasket:	n = 0.675, C = 0.001		(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	n = 0.273, C = 0.003		(EN 12114)
Water vapour permeability:	Impermeable		
Airborne sound insulation; R_w (C:C_{tr}):	32 (-2;-4)	dB	(EN ISO 717-1)
Sound absorption; α_w:	0.1		(EN ISO 11654)
Durability; DUR2:	Pass		

Detailed product/material specification is given on order confirmation or delivery documentation.
*When executed as a structural system according to the instructions by manufacturer