CE

DECLARATION OF PERFORMANCE
No. 63/MW/OBO

1. Unique identification code of product type:

Sandwich panel with WEE mineral wool core

nSPB80WEE	nSPB80WEEB	nSPB150WEE ENERGY	nSPB150WEEB ENERGY
nSPB100WEE	nSPB100WEEB	nSPB160WEE ENERGY	nSPB160WEEB ENERGY
nSPB150WEE	nSPB150WEEB	nSPB170WEE ENERGY	nSPB170WEEB ENERGY
nSPB160WEE	nSPB160WEEB	nSPB180WEE ENERGY	nSPB180WEEB ENERGY
nSPB170WEE	nSPB170WEEB	nSPB200WEE ENERGY	nSPB200WEEB ENERGY
nSPB180WEE	nSPB180WEEB	nSPB230WEE ENERGY	nSPB230WEEB ENERGY
nSPB200WEE	nSPB200WEEB		
nSPB230WEE	nSPB230WEEB		
nSPB100WEEA	nSPB150WEEA ENERGY		
nSPB150WEEA	nSPB170WEEA ENERGY		
nSPB170WEEA	nSPB180WEEA ENERGY		
nSPB180WEEA	nSPB200WEEA ENERGY		
nSPB200WEEA			

Sandwich panel with WE mineral wool core

nSPB80WE	nSPB80WEB	nSPB150WE ENERGY	nSPB150WEB ENERGY
nSPB100WE	nSPB100WEB	nSPB160WE ENERGY	nSPB160WEB ENERGY
nSPB110WE	nSPB110WEB	nSPB170WE ENERGY	nSPB170WEB ENERGY
nSPB120WE	nSPB120WEB	nSPB180WE ENERGY	nSPB180WEB ENERGY
nSPB140WE	nSPB140WEB	nSPB200WE ENERGY	nSPB200WEB ENERGY
nSPB150WE	nSPB150WEB	nSPB210WE ENERGY	nSPB210WEB ENERGY
nSPB160WE	nSPB160WEB	nSPB230WE ENERGY	nSPB230WEB ENERGY
nSPB170WE	nSPB170WEB		
nSPB180WE	nSPB180WEB		
nSPB200WE	nSPB200WEB		
nSPB210WE	nSPB210WEB		
nSPB230WE	nSPB230WEB		
nSPB100WEA	nSPB150WEA ENERGY		
nSPB120WEA	nSPB170WEA ENERGY		
nSPB150WEA	nSPB180WEA ENERGY		
nSPB170WEA	nSPB200WEA ENERGY		
nSPB180WEA			
nSPB200WEA			
nSPD100WE			
nSPD120WE			
nSPD150WE			
nSPD170WE			
nSPD180WE			
nSPD200WE			
nSPD230WE			

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 attachments 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:

Adam Korol
Vice President
Ruukki Construction

Helsinki, 09.07.2025

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

ENERGY PANELS:

nSPB WEE Energy / nSPB WEEB Energy ..... Page 4
nSPB WEA Energy ..... Page 5
nSPB WE Energy / nSPB WEB Energy ..... Page 6
nSPB WEA Energy ..... Page 7

OTHER PANELS:

nSPB WEE / nSPB WEEB ..... Page 8
nSPB WEEA ..... Page 9
nSPB WE / nSPB WEB ..... Page 10
nSPB WEA ..... Page 11

nSPD WE ..... Page 12

Attachment 1 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEE ENERGY, nSPB WEEB ENERGY**							
Reference to harmonized standard:	EN 14509:2013							
Intended use:	Internal or external walls							
Panel name:	**nSPB 150 WEE ENERGY nSPB 150 WEEB ENERGY**	**nSPB 160 WEE ENERGY nSPB 170 WEEB ENERGY**	**nSPB 170 WEE ENERGY nSPB 170 WEEB ENERGY**	**nSPB 180 WEE ENERGY nSPB 180 WEEB ENERGY**	**nSPB 200 WEE ENERGY nSPB 200 WEEB ENERGY**	**nSPB 230 WEE ENERGY nSPB 230 WEEB ENERGY**	Reference	
Year when CE mark was affixed:	22	23	22					
Thickness of external facing:	0.5 - 0.7						mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+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):	L25*, L, M, R28, R275, R550, F							
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F							
Internal facing - steel grade:	0.5 - 0.7						mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095							(EN 10346)
Internal facing - steel grade:	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:	L25*, L, F							
Core material:	MW							
Density of core material:	75						kg/m^3	
Nominal panel thickness:	152	160	170	183	203	230	mm	
Mass (module 1100 mm):	21.0	21.6	22.3	23.3	24.8	26.7	kg/m^2	
Mass (module 1000 mm):	21.0	21.6	22.4	23.3	24.8	26.7	kg/m^2	
Mechanical resistance:								
Tensile strength:	0.07	0.07	0.07	0.07	0.07	0.07	MPa	
Shear strength:	0.035	0.035	0.035	0.035	0.035	0.031	MPa	
Reduced long term shear strength:	NPD						MPa	
Shear modulus (core):	1.05	1.05	1.05	1.05	1.05	1.05	MPa	
Compressive strength (core):	0.04	0.04	0.04	0.04	0.04	0.04	MPa	
Creep coefficient t=2000h:	NPD							
Creep coefficient t=100000h:	NPD							
Wrinkling strength (external face):								
- in span	85	85	85	85	85	85	MPa	
- in span, elevated temperature	75	75	75	75	75	75	MPa	
- at central support	NPD						MPa	
- at central support, elevated temparature	NPD						MPa	
Wrinkling strength (internal face):								
- in span	85	85	85	85	85	85	MPa	
- at internal support	NPD						MPa	
Other properties:								
Thermal transmittance, $U_{d,s}$:	0.25	0.23	0.22	0.20	0.18	0.16	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.038						W/mK	
Reaction to fire:	A2-s1, d0						Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 120						Class	(EN 13501-2)
Fire resistance (wall, vertical):	NPD							
External fire performance:	Not applicable							
Water permeability:	A						Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.675, C = 0.001							(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.273, C = 0.003							(EN 12114)
Water vapour permeability:	Impermeable							
Airborne sound insulation, R_w (C; C_{tr}):	29 (-4; -6)						dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1							(EN ISO 11654)
Durability:	Pass - all colours							

* L25 profiling is not available in 0,7 mm facing

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

Attachment 2 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEEA ENERGY**					
Reference to harmonized standard:	EN 14509:2013					
Intended use:	Internal or external walls					
Panel name:	**nSPB 150 WEEA ENERGY**	**nSPB 170 WEEA ENERGY**	**nSPB 180 WEEA ENERGY**	**nSPB 200 WEEA ENERGY**	Reference	
Year when CE mark was affixed:	25					
Thickness of external facing:	0.5 - 0.7				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):	M, L					
Internal facing - steel grade:	0.5 - 0.7				mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095					(EN 10346)
Internal facing - steel grade:	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:	L25*, L					
Core material:	MW					
Density of core material:	75				kg/m^3	
Nominal panel thickness:	152	170	183	203	mm	
Mass (module 1200 mm):	20.9	22.3	23.2	24.7	kg/m^2	
Mechanical resistance:						
Tensile strength:	0.07	0.07	0.07	0.07	MPa	
Shear strength:	0.035	0.035	0.035	0.035	MPa	
Reduced long term shear strength:	NPD				MPa	
Shear modulus (core):	1.05	1.05	1.05	1.05	MPa	
Compressive strength (core):	0.04	0.04	0.04	0.04	MPa	
Creep coefficient t=2000h:	NPD					
Creep coefficient t=100000h:	NPD					
Wrinkling strength (external face):						
- in span	85	85	85	85	MPa	
- in span, elevated temperature	75	75	75	75	MPa	
- at central support	NPD				MPa	
- at central support, elevated temparature	NPD				MPa	
Wrinkling strength (internal face):						
- in span	85	85	85	85	MPa	
- at internal support	NPD				MPa	
Other properties:						
Thermal transmittance, $U_{d,s}$:	0.25	0.22	0.20	0.18	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.038				W/mK	
Reaction to fire:	A2-s1, d0				Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 120				Class	(EN 13501-2)
Fire resistance (wall, vertical):	NPD					
External fire performance:	Not applicable					
Water permeability:	A				Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.675, C = 0.001					(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.273, C = 0.003					(EN 12114)
Water vapour permeability:	Impermeable					
Airborne sound insulation, R_w (C; C_{tr}):	29 (-4; -6)				dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1					(EN ISO 11654)
Durability:	Pass - all colours					

* L25 profiling is not available in 0,7 mm facing

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

Attachment 3 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WE ENERGY, nSPB WEB ENERGY**								
Reference to harmonized standard:	EN 14509:2013								
Intended use:	Internal or external walls								
Panel name:	**nSPB 150 WE ENERGY nSPB 150 WEB ENERGY**	**nSPB 160 WE ENERGY nSPB 160 WEB ENERGY**	**nSPB 170 WE ENERGY nSPB 170 WEB ENERGY**	**nSPB 180 WE ENERGY nSPB 180 WEB ENERGY**	**nSPB 200 WE ENERGY nSPB 200 WEB ENERGY**	**nSPB 210 WE ENERGY nSPB 210 WEB ENERGY**	**nSPB 230 WE ENERGY nSPB 230 WEB ENERGY**	Reference	
Year when CE mark was affixed:	22								
Thickness of external facing:	0,5 - 0,7							mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+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):	L25*, L, M, R28, R275, R550, F								
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F								
Internal facing - steel grade:	0,5 - 0,7							mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095								(EN 10346)
Internal facing - steel grade:	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:	L25*, L, F								
Core material:	MW								
Density of core material:	90							kg/m^3	
Nominal panel thickness:	152	160	170	183	203	208	230	mm	
Mass (module 1100 mm):	23.2	24.0	24.9	25.8	27.6	28.3	30.1	kg/m^2	
Mass (module 1000 mm):	23.3	24.0	24.9	25.8	27.6	28.3	30.1	kg/m^2	
Mechanical resistance:									
Tensile strength:	0.08	0.08	0.08	0.08	0.07	0.07	0.07	MPa	
Shear strength:	0.055	0.055	0.055	0.055	0.05	0.05	0.044	MPa	
Reduced long term shear strength:	NPD							MPa	
Shear modulus (core):	2.5	2.5	2.5	2.5	2.5	2.5	2.5	MPa	
Compressive strength (core):	0.059	0.055	0.055	0.055	0.055	0.055	0.055	MPa	
Creep coefficient t=2000h:	NPD								
Creep coefficient t=100000h:	NPD								
Wrinkling strength (external face):									
- in span	110	110	110	110	110	105	105	MPa	
- in span, elevated temperature	104	104	104	104	104	99	99	MPa	
- at central support	72	72	72	72	72	72	72	MPa	
- at central support, elevated temparature	64	64	64	64	64	64	64	MPa	
Wrinkling strength (internal face):									
- in span	110	110	110	110	110	105	105	MPa	
- at internal support	72	72	72	72	72	72	72	MPa	
Other properties:									
Thermal transmittance, $U_{d,s}$:	0.26	0.24	0.23	0.22	0.19	0.19	0.17	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.040							W/mK	
Reaction to fire:	A2-s1, d0							Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 180							Class	(EN 13501-2)
Fire resistance (wall, vertical):	EI 120							Class	(EN 13501-2)
External fire performance:	Not applicable								
Water permeability:	A							Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.675, C = 0.001								(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.273, C = 0.003								(EN 12114)
Water vapour permeability:	Impermeable								
Airborne sound insulation, R_w (C; C_{tr}):	29 (-2; -4) (0,5 / 0,5 mm) 29 (-2; -4) (0,6 / 0,5 mm) 30 (-2; -4) (0,6 / 0,6 mm)			29 (-2; -4) (0,5 / 0,5 mm) 30 (-2; -4) (0,6 / 0,5 mm) 31 (-2; -4) (0,6 / 0,6 mm)				dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1								(EN ISO 11654)
Durability:	Pass - all colours								

* L25 profiling is not available in 0,7 mm facing

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

Attachment 4 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEA ENERGY**					
Reference to harmonized standard:	EN 14509:2013					
Intended use:	Internal or external walls					
Panel name:	**nSPB 150 WEA ENERGY**	**nSPB 170 WEA ENERGY**	**nSPB 180 WEA ENERGY**	**nSPB 200 WEA ENERGY**	Reference	
Year when CE mark was affixed:	25					
Thickness of external facing:	0,5 - 0,7				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):	M, L					
Internal facing - steel grade:	0,5 - 0,7				mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095					(EN 10346)
Internal facing - steel grade:	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:	L25*, L					
Core material:	MW					
Density of core material:	90				kg/m^3	
Nominal panel thickness:	152	170	183	203	mm	
Mass (module 1200 mm):	23.2	24.8	25.7	27.5	kg/m^2	
Mechanical resistance:						
Tensile strength:	0.08	0.08	0.08	0.07	MPa	
Shear strength:	0.055	0.055	0.055	0.05	MPa	
Reduced long term shear strength:	NPD				MPa	
Shear modulus (core):	2.5	2.5	2.5	2.5	MPa	
Compressive strength (core):	0.059	0.055	0.055	0.055	MPa	
Creep coefficient t=2000h:	NPD					
Creep coefficient t=100000h:	NPD					
Wrinkling strength (external face):						
- in span	110	110	110	110	MPa	
- in span, elevated temperature	104	104	104	104	MPa	
- at central support	72	72	72	72	MPa	
- at central support, elevated temparature	64	64	64	64	MPa	
Wrinkling strength (internal face):						
- in span	110	110	110	110	MPa	
- at internal support	72	72	72	72	MPa	
Other properties:						
Thermal transmittance, $U_{d,s}$:	0.26	0.23	0.22	0.19	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.040				W/mK	
Reaction to fire:	A2-s1, d0				Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 180				Class	(EN 13501-2)
Fire resistance (wall, vertical):	EI 120				Class	(EN 13501-2)
External fire performance:	Not applicable					
Water permeability:	A				Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.675, C = 0.001					(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.273, C = 0.003					(EN 12114)
Water vapour permeability:	Impermeable					
Airborne sound insulation, R_w (C; C_{tr}):	29 (-2; -4) (0,5 / 0,5 mm) 29 (-2; -4) (0,6 / 0,5 mm) 30 (-2; -4) (0,6 / 0,6 mm)		29 (-2; -4) (0,5 / 0,5 mm) 30 (-2; -4) (0,6 / 0,5 mm) 31 (-2; -4) (0,6 / 0,6 mm)		dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1					(EN ISO 11654)
Durability:	Pass - all colours					

* L25 profiling is not available in 0,7 mm facing

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

Attachment 5 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEE, nSPB WEEB**									
Reference to harmonized standard:	EN 14509:2013									
Intended use:	Internal walls		Internal or external walls							
Panel name:	**nSPB 80 WEE nSPB 80 WEEB**	**nSPB 100 WEE nSPB 100 WEEB**	**nSPB 150 WEE nSPB 150 WEEB**	**nSPB 160 WEE nSPB 160 WEEB**	**nSPB 170 WEE nSPB 170 WEEB**	**nSPB 180 WEE nSPB 180 WEEB**	**nSPB 200 WEE nSPB 200 WEEB**	**nSPB 230 WEE nSPB 230 WEEB**	Reference	
Year when CE mark was affixed:	23	25	22	23	22					
Thickness of external facing:	0,5 - 0,7								mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+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):	L25*, L, M, R28, R250, R500, F									
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F									
Internal facing - steel grade:	0,5 - 0,7								mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095									(EN 10346)
Internal facing - steel grade:	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:	L25*, L, F									
Core material:	MW									
Density of core material:	75								kg/m^3	
Nominal panel thickness:	80	100	152	160	170	183	203	230	mm	
Mass (module 1100 mm):	15.6	17.9	21.0	21.6	22.3	23.3	24.8	26.7	kg/m^2	
Mass (module 1000 mm):	15.6	17.9	21.0	21.6	22.4	23.3	24.8	26.7	kg/m^2	
Mechanical resistance:										
Tensile strength:	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.07	MPa	
Shear strength:	0.04	0.04	0.035	0.035	0.035	0.035	0.035	0.031	MPa	
Reduced long term shear strength:	NPD								MPa	
Shear modulus (core):	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	MPa	
Compressive strength (core):	0.029	0.04	0.04	0.04	0.04	0.04	0.04	0.04	MPa	
Creep coefficient t=2000h:	NPD									
Creep coefficient t=100000h:	NPD									
Wrinkling strength (external face):										
- in span	42	85	85	85	85	85	85	85	MPa	
- in span, elevated temperature	37	75	75	75	75	75	75	75	MPa	
- at central support	NPD								MPa	
- at central support, elevated temparature	NPD								MPa	
Wrinkling strength (internal face):										
- in span	42	85	85	85	85	85	85	85	MPa	
- at internal support	NPD								MPa	
Other properties:										
Thermal transmittance, $U_{d,s}$:	0.46	0.37	0.25	0.23	0.22	0.20	0.18	0.16	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.038								W/mK	
Reaction to fire:	A2-s1, d0								Class	(EN 13501-1)
Fire resistance (wall, horizontal):	NPD	EI 60	EI 120						Class	(EN 13501-2)
Fire resistance (wall, vertical):	NPD	EI 60								
External fire performance:	Not applicable									
Water permeability:	A								Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.694, C = 0.018									(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.048, C = 0.29									(EN 12114)
Water vapour permeability:	Impermeable									
Airborne sound insulation, R_w (C; C_{tr}):	NPD		29 (-4; -6)						dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1									(EN ISO 11654)
Durability:	Pass - all colours									

* L25 profiling is not available in 0,7 mm facing

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

Attachment 6 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEEA**						
Reference to harmonized standard:	EN 14509:2013						
Intended use:	Internal walls	Internal or external walls					
Panel name:	**nSPB 100 WEEA**	**nSPB 150 WEEA**	**nSPB 170 WEEA**	**nSPB 180 WEEA**	**nSPB 200 WEEA**	Reference	
Year when CE mark was affixed:	25						
Thickness of external facing:	0.5 - 0.6					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):	M, L						
Internal facing - steel grade:	0.5 - 0.6					mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095						(EN 10346)
Internal facing - steel grade:	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:	L25*, L						
Core material:	MW						
Density of core material:	75					kg/m^3	
Nominal panel thickness:	100	152	170	183	203	mm	
Mass (module 1200 mm):	17.9	20.9	22.3	23.2	24.7	kg/m^2	
Mechanical resistance:							
Tensile strength:	0.07	0.07	0.07	0.07	0.07	MPa	
Shear strength:	0.04	0.035	0.035	0.035	0.035	MPa	
Reduced long term shear strength:	NPD					MPa	
Shear modulus (core):	1.05	1.05	1.05	1.05	1.05	MPa	
Compressive strength (core):	0.04	0.04	0.04	0.04	0.04	MPa	
Creep coefficient t=2000h:	NPD						
Creep coefficient t=100000h:	NPD						
Wrinkling strength (external face):							
- in span	85	85	85	85	85	MPa	
- in span, elevated temperature	75	75	75	75	75	MPa	
- at central support	NPD					MPa	
- at central support, elevated temparature	NPD					MPa	
Wrinkling strength (internal face):							
- in span	85	85	85	85	85	MPa	
- at internal support	NPD					MPa	
Other properties:							
Thermal transmittance, $U_{d,s}$:	0.37	0.25	0.22	0.20	0.18	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.038					W/mK	
Reaction to fire:	A2-s1, d0					Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 60	EI 120				Class	(EN 13501-2)
Fire resistance (wall, vertical):	EI 60						
External fire performance:	Not applicable						
Water permeability:	A					Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.694, C = 0.018						(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.048, C = 0.29						(EN 12114)
Water vapour permeability:	Impermeable						
Airborne sound insulation, R_w (C; C_{tr}):	NPD	29 (-4; -6)				dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1						(EN ISO 11654)
Durability:	Pass - all colours						

* L25 profiling is not available in 0,7 mm facing

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

Attachment 7 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WE, nSPB WEB**													
Reference to harmonized standard:	EN 14509:2013													
Intended use:	Internal or external walls													
Panel name:	**nSPB 80 WE nSPB 80 WEB**	**nSPB 100 WE nSPB 100 WEB**	**nSPB 110 WE nSPB 110 WEB**	**nSPB 120 WE nSPB 120 WEB**	**nSPB 140 WE nSPB 140 WEB**	**nSPB 150 WE nSPB 150 WEB**	**nSPB 160 WE nSPB 160 WEB**	**nSPB 170 WE nSPB 170 WEB**	**nSPB 180 WE nSPB 180 WEB**	**nSPB 200 WE nSPB 200 WEB**	**nSPB 210 WE nSPB 210 WEB**	**nSPB 230 WE nSPB 230 WEB**	Reference	
Year when CE mark was affixed:	22													
Thickness of external facing:	0,5 - 0,7												mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+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):	L25*, L, M, R28, R250, R500, F													
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F													
Internal facing - steel grade:	0,5 - 0,7												mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095													(EN 10346)
Internal facing - steel grade:	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:	L25*, L, F													
Core material:	MW													
Density of core material:	125	90											kg/m^3	
Nominal panel thickness:	80	100	110	120	140	152	160	170	183	203	208	230	mm	
Mass (module 1100 mm):	19.6	18.6	19.5	20.4	22.2	23.2	24.0	24.9	25.8	27.6	28.3	30.1	kg/m^2	
Mass (module 1000 mm):	19.6	18.6	19.5	20.4	22.2	23.3	24.0	24.9	25.8	27.6	28.3	30.1	kg/m^2	
Mechanical resistance:														
Tensile strength:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	MPa	
Shear strength:	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.05	0.05	0.044	MPa	
Reduced long term shear strength:	NPD												MPa	
Shear modulus (core):	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	MPa	
Compressive strength (core):	0.06	0.06	0.06	0.06	0.059	0.059	0.055	0.055	0.055	0.055	0.055	0.055	MPa	
Creep coefficient t=2000h:	NPD													
Creep coefficient t=100000h:	NPD													
Wrinkling strength (external face):														
- in span	110	110	110	110	110	110	110	110	110	110	105	105	MPa	
- in span, elevated temperature	104	104	104	104	104	104	104	104	104	104	99	99	MPa	
- at central support	72	72	72	72	72	72	72	72	72	72	72	72	MPa	
- at central support, elevated temparature	64	64	64	64	64	64	64	64	64	64	64	64	MPa	
Wrinkling strength (internal face):														
- in span	110	110	110	110	110	110	110	110	110	110	105	105	MPa	
- at internal support	72	72	72	72	72	72	72	72	72	72	72	72	MPa	
Other properties:														
Thermal transmittance, $U_{d.s}$:	0.54	0.38	0.36	0.32	0.28	0.26	0.24	0.23	0.22	0.19	0.19	0.17	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.045	0.040											W/mK	
Reaction to fire:	A2-s1, d0												Class	(EN 13501-1)
Fire resistance (wall, horizontal):	NPD	EI 90				EI 180							Class	(EN 13501-2)
Fire resistance (wall, vertical):	NPD	EI 90				EI 120							Class	(EN 13501-2)
External fire performance:	Not applicable													
Water permeability:	A												Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.694, C = 0.018													(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.048, C = 0.29													(EN 12114)
Water vapour permeability:	Impermeable													
Airborne sound insulation, R_w (C; C_{tr}):	29 (-2; -4)					29 (-2; -4) (0,5 / 0,5 mm) 29 (-2; -4) (0,6 / 0,5 mm) 30 (-2; -4) (0,6 / 0,6 mm)			29 (-2; -4) (0,5 / 0,5 mm) 30 (-2; -4) (0,6 / 0,5 mm) 31 (-2; -4) (0,6 / 0,6 mm)				dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1													(EN ISO 11654)
Durability:	Pass - all colours													

* L25 profiling is not available in 0,7 mm facing

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

Attachment 8 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPB WEA**							
Reference to harmonized standard:	EN 14509:2013							
Intended use:	Internal or external walls							
Panel name:	**nSPB 100 WEA**	**nSPB 120 WEA**	**nSPB 150 WEA**	**nSPB 170 WEA**	**nSPB 180 WEA**	**nSPB 200 WEA**	Reference	
Year when CE mark was affixed:	25							
Thickness of external facing:	0,5 - 0,7						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):	M, L							
Internal facing - steel grade:	0,5 - 0,7						mm	(EN 10143)
Coating of internal facing:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095							(EN 10346)
Internal facing - steel grade:	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:	L25*, L							
Core material:	MW							
Density of core material:	90						kg/m^3	
Nominal panel thickness:	100	120	152	170	183	203	mm	
Mass (module 1200 mm):	19.3	21.1	24.0	25.6	26.5	28.3	kg/m^2	
Mechanical resistance:								
Tensile strength:	0.08	0.08	0.08	0.08	0.08	0.07	MPa	
Shear strength:	0.055	0.055	0.055	0.055	0.055	0.05	MPa	
Reduced long term shear strength:	NPD						MPa	
Shear modulus (core):	2.5	2.5	2.5	2.5	2.5	2.5	MPa	
Compressive strength (core):	0.06	0.06	0.059	0.055	0.055	0.055	MPa	
Creep coefficient t=2000h:	NPD							
Creep coefficient t=100000h:	NPD							
Wrinkling strength (external face):								
- in span	110	110	110	110	110	110	MPa	
- in span, elevated temperature	104	104	104	104	104	104	MPa	
- at central support	72	72	72	72	72	72	MPa	
- at central support, elevated temparature	64	64	64	64	64	64	MPa	
Wrinkling strength (internal face):								
- in span	110	110	110	110	110	110	MPa	
- at internal support	72	72	72	72	72	72	MPa	
Other properties:								
Thermal transmittance, $U_{d,s}$:	0.38	0.32	0.26	0.23	0.22	0.19	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.040						W/mK	
Reaction to fire:	A2-s1, d0						Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 180						Class	(EN 13501-2)
Fire resistance (wall, vertical):	EI 120						Class	(EN 13501-2)
External fire performance:	Not applicable							
Water permeability:	A						Class	(EN 12865)
Air permeability, pressure (per 1 effective m^2):	n = 0.694, C = 0.018							(EN 12114)
Air permeability, suction (per 1 effective m^2):	n = 0.048, C = 0.29							(EN 12114)
Water vapour permeability:	Impermeable							
Airborne sound insulation, R_w (C; C_{tr}):	29 (-2; -4)		29 (-2; -4) (0,5 / 0,5 mm) 29 (-2; -4) (0,6 / 0,5 mm) 30 (-2; -4) (0,6 / 0,6 mm)		29 (-2; -4) (0,5 / 0,5 mm) 30 (-2; -4) (0,6 / 0,5 mm) 31 (-2; -4) (0,6 / 0,6 mm)		dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1							(EN ISO 11654)
Durability:	Pass - all colours							

* L25 profiling is not available in 0,7 mm facing

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

Attachment 9 to Declaration of Performance 63/MW/OBO

Panel type:	**nSPD WE**								
Reference to harmonized standard:	EN 14509:2013								
Intended use:	Internal or external walls								
Panel name:	**nSPD100WE**	**nSPD120WE**	**nSPD150WE**	**nSPD170WE**	**nSPD180WE**	**nSPD200WE**	**nSPD230WE**	Reference	
Year when CE mark was affixed:	23								
Thickness of external facing:	0.6 - 0.7							mm	(EN 10143)
External facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095								(EN 10346)
Coating of 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:	L, M, R250, R500, F								
Thickness of internal facing:	0.5 - 0.6							mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+ZA095 S250GD+Z275, S250GD+Z100, S250GD+ZM140, S250GD+ZM120, S250GD+ZM100, S250GD+ZA255, S250GD+ZA095								(EN 10346)
Coating of 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								
Core material:	MW								
Density of core material:	90							kg/m^3	
Nominal panel thickness:	100	120	152	170	183	203	230	mm	
Mass:	19.1	20.9	23.8	25.4	26.3	28.1	30.6	kg/m^2	
Mechanical resistance:									
Tensile strength:	0.08	0.08	0.08	0.08	0.07	0.07	0.07	MPa	
Shear strength:	0.055	0.055	0.055	0.055	0.05	0.05	0.04	MPa	
Reduced long term shear strength:	NPD							MPa	
Shear modulus (core):	2.5	2.5	2.5	2.5	2.5	2.5	2.5	MPa	
Compressive strength (core):	0.06	0.06	0.055	0.055	0.055	0.055	0.055	MPa	
Creep coefficient t=2000h:	NPD								
Creep coefficient t=100000h:	NPD								
Wrinkling strength (external face):									
- in span	110	110	110	110	110	110	110	MPa	
- in span, elevated temperature	104	104	104	104	104	104	104	MPa	
- at central support	72	72	72	72	72	72	72	MPa	
- at central support, elevated temparature	64	64	64	64	64	64	64	MPa	
Wrinkling strength (internal face):									
- in span	110	110	110	110	110	110	110	MPa	
- at internal support	63	63	63	63	63	63	63	MPa	
Other properties:									
Thermal transmittance, $U_{d,s}$:	0.39	0.32	0.27	0.23	0.22	0.20	0.17	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	0.040							W/mK	
Reaction to fire:	A2-s1, d0							Class	(EN 13501-1)
Fire resistance (wall, horizontal):	NPD								
Fire resistance (wall, vertical):	EI 30 (i→o) EI 60 (o→i)		EI 60 (i→o) EI 180 (o→i)					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}):	29 (-2; -4)							dB	(EN ISO 717-1)
Sound absorption, α_w:	0.1								(EN ISO 11654)
Durability:	Pass - all colours								

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