



DECLARATION OF PERFORMANCE

No. 64/MW/OBO

1. Unique identification code of product type:

Sandwich panel with W mineral wool core

nSPB80W	nSPB80WB	nSPB150W ENERGY	nSPB150WB ENERGY
nSPB100W	nSPB100WB	nSPB160W ENERGY	nSPB160WB ENERGY
nSPB110W	nSPB110WB	nSPB170W ENERGY	nSPB170WB ENERGY
nSPB120W	nSPB120WB	nSPB180W ENERGY	nSPB180WB ENERGY
nSPB140W	nSPB140WB	nSPB200W ENERGY	nSPB200WB ENERGY
nSPB150W	nSPB150WB	nSPB210W ENERGY	nSPB210WB ENERGY
nSPB160W	nSPB160WB	nSPB230W ENERGY	nSPB230WB ENERGY
nSPB170W	nSPB170WB		
nSPB180W	nSPB180WB		
nSPB200W	nSPB200WB		
nSPB210W	nSPB210WB		
nSPB230W	nSPB230WB		
nSPB100WA	nSPB150WA ENERGY		
nSPB120WA	nSPB170WA ENERGY		
nSPB150WA	nSPB180WA ENERGY		
nSPB170WA	nSPB200WA ENERGY		
nSPB180WA			
nSPB200WA			
nSPC 140/100 W			
nSPC 160/120 W			
nSPC 190/150 W			

Sandwich panel with WF mineral wool core

nSPB100WF	nSPB100WFB	nSPB150WF ENERGY	nSPB150WFB ENERGY
nSPB110WF	nSPB110WFB	nSPB160WF ENERGY	nSPB160WFB ENERGY
nSPB120WF	nSPB120WFB	nSPB170WF ENERGY	nSPB170WFB ENERGY
nSPB140WF	nSPB140WFB	nSPB180WF ENERGY	nSPB180WFB ENERGY
nSPB150WF	nSPB150WFB	nSPB200WF ENERGY	nSPB200WFB ENERGY
nSPB160WF	nSPB160WFB	nSPB210WF ENERGY	nSPB210WFB ENERGY
nSPB170WF	nSPB170WFB	nSPB230WF ENERGY	nSPB230WFB ENERGY
nSPB180WF	nSPB180WFB		
nSPB200WF	nSPB200WFB		
nSPB210WF	nSPB210WFB		
nSPB230WF	nSPB230WFB		
nSPB100WFA	nSPB150WFA ENERGY		
nSPB120WFA	nSPB170WFA ENERGY		
nSPB150WFA	nSPB180WFA ENERGY		
nSPB170WFA	nSPB200WFA ENERGY		
nSPB180WFA			
nSPB200WFA			

Sandwich panel with WS mineral wool core

nSPB100WS	nSPB100WSB	nSPB150WS ENERGY	nSPB150WSB ENERGY
nSPB110WS	nSPB110WSB	nSPB160WS ENERGY	nSPB160WSB ENERGY
nSPB120WS	nSPB120WSB	nSPB170WS ENERGY	nSPB170WSB ENERGY
nSPB140WS	nSPB140WSB	nSPB180WS ENERGY	nSPB180WSB ENERGY
nSPB150WS	nSPB150WSB	nSPB200WS ENERGY	nSPB200WSB ENERGY
nSPB160WS	nSPB160WSB	nSPB210WS ENERGY	nSPB210WSB ENERGY
nSPB170WS	nSPB170WSB	nSPB230WS ENERGY	nSPB230WSB ENERGY
nSPB180WS	nSPB180WSB		
nSPB200WS	nSPB200WSB		
nSPB210WS	nSPB210WSB		
nSPB230WS	nSPB230WSB		
nSPB100WSA	nSPB150WSA ENERGY		
nSPB120WSA	nSPB170WSA ENERGY		
nSPB150WSA	nSPB180WSA ENERGY		
nSPB170WSA	nSPB200WSA ENERGY		
nSPB180WSA			
nSPB200WSA			

2. Intended use: Self-supporting metal faced insulating panels for use in buildings; external walls, internal walls, ceilings and roofs.
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
Head of Roofing Europe

Helsinki, 08.04.2025

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

ENERGY PANELS:

nSPB W Energy / nSPB WB Energy	Page 4
nSPB WA Energy	Page 5
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OTHER PANELS:

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nSPB WA	Page 11
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Attachment 1 to Declaration of Performance 64/MW/OBO

Panel type:	nSPB W ENERGY, nSPB WB ENERGY									
Reference to harmonized standard:	EN 14509:2013									
Intended use:	Internal or external walls									
Panel name:	nSPB 150 W ENERGY nSPB 150 WB ENERGY	nSPB 160 W ENERGY nSPB 160 WB ENERGY	nSPB 170 W ENERGY nSPB 170 WB ENERGY	nSPB 180 W ENERGY nSPB 180 WB ENERGY	nSPB 200 W ENERGY nSPB 200 WB ENERGY	nSPB 210 W ENERGY nSPB 210 WB ENERGY	nSPB 230 W ENERGY nSPB 230 WB 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 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 (module 1100 mm):	L25*, L, M, R275, R550, F									
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F									
Thickness of internal facing:	0,5 - 0,7							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:	L25*, L, F									
Core material:	MW									
Density of core material:	115							kg/m ³		
Nominal panel thickness:	152	160	170	183	203	208	230	mm		
Mass (module 1100 mm):	27.0	28.0	29.1	30.3	32.6	33.5	35.8	kg/m ²		
Mass (module 1000 mm):	27.1	28.0	29.2	30.3	32.6	33.5	35.8	kg/m ²		
Mechanical resistance:										
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	0.10	MPa		
Shear strength:	0.062	0.062	0.062	0.062	0.06	0.058	0.053	MPa		
Reduced long term shear strength:	NPD							MPa		
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MPa		
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	0.09	MPa		
Creep coefficient t=2000h:	NPD									
Creep coefficient t=100000h:	NPD									
Wrinkling strength (external face):										
- in span	128	128	128	128	128	120	120	MPa		
- in span, elevated temperature	124	124	124	124	124	115	115	MPa		
- at central support	84	84	84	84	84	84	84	MPa		
- at central support, elevated temperature	75	75	75	75	75	75	75	MPa		
Wrinkling strength (internal face):										
- in span	128	128	128	128	128	120	120	MPa		
- at internal support	84	84	84	84	84	84	84	MPa		
Other properties:										
Thermal transmittance, U _{g,s} :	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m ² K		
Thermal conductivity of the core, λ _{declared} :	0.043							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 180							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 _w):	32 (-2; -4)							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 64/MW/OBO

Panel type:	nSPB WA ENERGY				
Reference to harmonized standard:	EN 14509:2013				
Intended use:	Internal or external walls				
Panel name:	nSPB 150 WA ENERGY	nSPB 170 WA ENERGY	nSPB 180 WA ENERGY	nSPB 200 WA 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 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 (module 1200 mm):	L, M				
Thickness of internal facing:	0,5 - 0,7				mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L				
Core material:	MW				
Density of core material:	115				kg/m ³
Nominal panel thickness:	152	170	183	203	mm
Mass (module 1200 mm):	27.0	29.1	30.2	32.5	kg/m ²
Mechanical resistance:					
Tensile strength:	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.06	MPa
Reduced long term shear strength:	NPD				MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD				
Creep coefficient t=100000h:	NPD				
Wrinkling strength (external face):					
- in span	128	128	128	128	MPa
- in span, elevated temperature	124	124	124	124	MPa
- at central support	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	MPa
Wrinkling strength (internal face):					
- in span	128	128	128	128	MPa
- at internal support	84	84	84	84	MPa
Other properties:					
Thermal transmittance, U _{A,S} :	0.28	0.25	0.23	0.21	W/m ² K
Thermal conductivity of the core, λ _{Declared} :	0.043				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 180				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 _w):	32 (-2; -4)				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 64/MW/OBO

Panel type:	nSPB WF ENERGY, nSPB WFB ENERGY								
Reference to harmonized standard:	EN 14509:2013								
Intended use:	Internal or external walls								
Panel name:	nSPB 150 WF ENERGY nSPB 150 WFB ENERGY	nSPB 160 WF ENERGY nSPB 160 WFB ENERGY	nSPB 170 WF ENERGY nSPB 170 WFB ENERGY	nSPB 180 WF ENERGY nSPB 180 WFB ENERGY	nSPB 200 WF ENERGY nSPB 200 WFB ENERGY	nSPB 210 WF ENERGY nSPB 210 WFB ENERGY	nSPB 230 WF ENERGY nSPB 230 WFB 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 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 (module 1100 mm):	L25*, L, M, R275, R550, F								
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F								
Thickness of internal facing:	0,5 - 0,7							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:	L25*, L, F								
Core material:	MW								
Density of core material:	115							kg/m ³	
Nominal panel thickness:	152	160	170	183	203	208	230	mm	
Mass (module 1100 mm):	27.0	28.0	29.1	30.3	32.6	33.5	35.8	kg/m ²	
Mass (module 1000 mm):	27.1	28.0	29.2	30.3	32.6	33.5	35.8	kg/m ²	
Mechanical resistance:									
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	0.10	MPa	
Shear strength:	0.062	0.062	0.062	0.062	0.06	0.058	0.053	MPa	
Reduced long term shear strength:	NPD							MPa	
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MPa	
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	0.09	MPa	
Creep coefficient t=2000h:	NPD								
Creep coefficient t=10000h:	NPD								
Wrinkling strength (external face):									
- in span	128	128	128	128	128	120	120	MPa	
- in span, elevated temperature	124	124	124	124	124	115	115	MPa	
- at central support	84	84	84	84	84	84	84	MPa	
- at central support, elevated temperature	75	75	75	75	75	75	75	MPa	
Wrinkling strength (internal face):									
- in span	128	128	128	128	128	120	120	MPa	
- at internal support	84	84	84	84	84	84	84	MPa	
Other properties:									
Thermal transmittance, U _{g,s} :	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m ² K	
Thermal conductivity of the core, λ _{Declared} :	0.043							W/mK	
Reaction to fire:	A2-s1, d0							Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 240							Class	(EN 13501-2)
Fire resistance (wall, vertical):	EI 240							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 _w):	32 (-1; -4)							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 64/MW/OBO

Panel type:	nSPB WFA ENERGY				
Reference to harmonized standard:	EN 14509:2013				
Intended use:	Internal or external walls				
Panel name:	nSPB 150 WFA ENERGY	nSPB 170 WFA ENERGY	nSPB 180 WFA ENERGY	nSPB 200 WFA 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 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 (module 1200 mm):	L, M				
Thickness of internal facing:	0.5 - 0.7				mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L				
Core material:	MW				
Density of core material:	115				kg/m ³
Nominal panel thickness:	152	170	183	203	mm
Mass (module 1200 mm):	27.0	29.1	30.2	32.5	kg/m ²
Mechanical resistance:					
Tensile strength:	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.06	MPa
Reduced long term shear strength:	NPD				MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD				
Creep coefficient t=100000h:	NPD				
Wrinkling strength (external face):					
- in span	128	128	128	128	MPa
- in span, elevated temperature	124	124	124	124	MPa
- at central support	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	MPa
Wrinkling strength (internal face):					
- in span	128	128	128	128	MPa
- at internal support	84	84	84	84	MPa
Other properties:					
Thermal transmittance, U _{d,s} :	0.28	0.25	0.23	0.21	W/m ² K
Thermal conductivity of the core, λ _{Declared} :	0.043				W/mK
Reaction to fire:	A2-s1, d0				Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 240				Class (EN 13501-2)
Fire resistance (wall, vertical):	EI 240				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 _w):	32 (-1; -4)				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 64/MW/OBO

Panel type:	nSPB WS ENERGY, nSPB WSB ENERGY								
Reference to harmonized standard:	EN 14509:2013								
Intended use:	Internal or external walls								
Panel name:	nSPB 150 WS ENERGY nSPB 150 WSB ENERGY	nSPB 160 WS ENERGY nSPB 160 WSB ENERGY	nSPB 170 WS ENERGY nSPB 170 WSB ENERGY	nSPB 180 WS ENERGY nSPB 180 WSB ENERGY	nSPB 200 WS ENERGY nSPB 200 WSB ENERGY	nSPB 210 WS ENERGY nSPB 210 WSB ENERGY	nSPB 230 WS ENERGY nSPB 230 WSB 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 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 (module 1100 mm):	L25*, L, M, R275, R550, F								
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F								
Thickness of internal facing:	0,5 - 0,7						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:	L25*, L, F								
Core material:	MW								
Density of core material:	125						kg/m ³		
Nominal panel thickness:	152	160	170	183	203	208	230	mm	
Mass (module 1100 mm):	28.6	29.6	30.8	32.1	34.6	35.6	38.1	kg/m ²	
Mass (module 1000 mm):	28.6	29.6	30.9	32.1	34.6	35.6	38.1	kg/m ²	
Mechanical resistance:									
Tensile strength:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	MPa	
Shear strength:	0.086	0.083	0.081	0.079	0.076	0.071	0.064	MPa	
Reduced long term shear strength:	NPD						MPa		
Shear modulus (core):	6.0	6.0	6.0	6.0	6.0	6.0	6.0	MPa	
Compressive strength (core):	0.115	0.115	0.115	0.115	0.115	0.115	0.115	MPa	
Creep coefficient t=2000h:	NPD								
Creep coefficient t=10000h:	NPD								
Wrinkling strength (external face) at profiling L25:									
- in span	180	180	180	180	180	180	180	MPa	
- in span, elevated temperature	165	165	165	165	165	165	165	MPa	
- at central support	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	MPa	
Wrinkling strength (external face) at profiling L, M:									
- in span	165	165	165	165	165	165	151	MPa	
- in span, elevated temperature	150	150	150	150	150	150	136	MPa	
- at central support	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	MPa	
Wrinkling strength (external face) at profiling R275, R550, R28, R250, R500, F:									
- in span	150	150	150	150	150	150	150	MPa	
- in span, elevated temperature	135	135	135	135	135	135	135	MPa	
- at central support	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	MPa	
Wrinkling strength (internal face) at profiling L25:									
- in span	180	180	180	180	180	180	180	MPa	
- at internal support	96	96	96	96	96	96	96	MPa	
Wrinkling strength (internal face) at profiling L:									
- in span	165	165	165	165	165	165	165	MPa	
- at internal support	96	96	96	96	96	96	96	MPa	
Wrinkling strength (internal face) at profiling F:									
- in span	150	150	150	150	150	150	150	MPa	
- at internal support	96	96	96	96	96	96	96	MPa	
Other properties:									
Thermal transmittance, U _{g,s} :	0.29	0.27	0.26	0.24	0.22	0.21	0.19	W/m ² K	
Thermal conductivity of the core, λ _{Declared} :	0.045						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 180						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}):	32 (-2; -4)						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 64/MW/OBO

Panel type:	nSPB WSA ENERGY					
Reference to harmonized standard:	EN 14509:2013					
Intended use:	Internal or external walls					
Panel name:	nSPB 150 WSA ENERGY	nSPB 170 WSA ENERGY	nSPB 180 WSA ENERGY	nSPB 200 WSA 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 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 (module 1200 mm):	L, M					
Thickness of internal facing:	0.5 - 0.7					mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L					
Core material:	MW					
Density of core material:	125					kg/m ³
Nominal panel thickness:	152	170	183	203	mm	
Mass (module 1200 mm):	28.6	30.8	32.1	34.6	kg/m ²	
Mechanical resistance:						
Tensile strength:	0.13	0.13	0.13	0.13	MPa	
Shear strength:	0.086	0.081	0.079	0.076	MPa	
Reduced long term shear strength:	NPD					MPa
Shear modulus (core):	6.0	6.0	6.0	6.0	MPa	
Compressive strength (core):	0.115	0.115	0.115	0.115	MPa	
Creep coefficient t=2000h:	NPD					
Creep coefficient t=100000h:	NPD					
Wrinkling strength (external face) at profiling L, M:						
- in span	165	165	165	165	MPa	
- in span, elevated temperature	150	150	150	150	MPa	
- at central support	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	MPa	
Wrinkling strength (internal face) at profiling L25:						
- in span	180	180	180	180	MPa	
- at internal support	96	96	96	96	MPa	
Wrinkling strength (internal face) at profiling L:						
- in span	165	165	165	165	MPa	
- at internal support	96	96	96	96	MPa	
Other properties:						
Thermal transmittance, U _{d,s} :	0.29	0.26	0.24	0.22	W/m ² K	
Thermal conductivity of the core, λ _{Declared} :	0.045				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 180				Class (EN 13501-2)	
External fire performance:	Not applicable					
Water permeability:	A				Class (EN 12065)	
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}):	32 (-2; -4)				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 64/MW/OBO

Panel type:	nSPB W, nSPB WB												
Reference to harmonized standard:	EN 14509:2013												
Intended use:	Internal or external walls												
Panel name:	nSPB 80 W nSPB 80 WB	nSPB 100 W nSPB 100 WB	nSPB 110 W nSPB 110 WB	nSPB 120 W nSPB 120 WB	nSPB 140 W nSPB 140 WB	nSPB 150 W nSPB 150 WB	nSPB 160 W nSPB 160 WB	nSPB 170 W nSPB 170 WB	nSPB 180 W nSPB 180 WB	nSPB 200 W nSPB 200 WB	nSPB 210 W nSPB 210 WB	nSPB 230 W nSPB 230 WB	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 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 (module 1100 mm):	L25*, L, M, R275, R550, F												
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F												
Thickness of internal facing:	0,5 - 0,7												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:	L25*, L, F												
Core material:	MW												
Density of core material:	115												kg/m ³
Nominal panel thickness:	80	100	110	120	140	152	160	170	183	203	208	230	mm
Mass (module 1100 mm):	18.8	21.1	22.2	23.4	25.7	27.0	28.0	29.1	30.3	32.6	33.5	35.8	kg/m ²
Mass (module 1000 mm):	18.8	21.1	22.3	23.4	25.7	27.1	28.0	29.2	30.3	32.6	33.5	35.8	kg/m ²
Mechanical resistance:													
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.06	0.058	0.053	MPa
Reduced long term shear strength:	NPD												MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD												
Creep coefficient t=100000h:	NPD												
Wrinkling strength (external face):													
- in span	128	128	128	128	128	128	128	128	128	128	120	120	MPa
- in span, elevated temperature	124	124	124	124	124	124	124	124	124	124	115	115	MPa
- at central support	84	84	84	84	84	84	84	84	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	75	75	75	75	75	75	75	75	MPa
Wrinkling strength (internal face):													
- in span	128	128	128	128	128	128	128	128	128	128	120	120	MPa
- at internal support	84	84	84	84	84	84	84	84	84	84	84	84	MPa
Other properties:													
Thermal transmittance, U _{GL} ⁽¹⁾:	0.51	0.41	0.39	0.34	0.30	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m²K
Thermal conductivity of the core, λ _{Declared} ⁽²⁾:	0.043												W/mK
Reaction to fire:	A2-s1, d0												Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 45	EI 90					EI 180					Class (EN 13501-2)	
Fire resistance (wall, vertical):	NPD	EI 90					EI 180					Class (EN 13501-2)	
External fire performance:	Not applicable												Class (EN 12865)
Water permeability:	A												(EN 12114)
Air permeability, pressure (per 1 effective m²):	n = 0.694, C = 0.018												(EN 12114)
Air permeability, suction (per 1 effective m²):	n = 0.048, C = 0.29												(EN 12114)
Water vapour permeability:	Impermeable												
Airborne sound insulation, R _w (C; C ₂):	33 (-1; -4)	32 (-2; -4)											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 64/MW/OBO

Panel type:	nSPB WA						
Reference to harmonized standard:	EN 14509:2013						
Intended use:	Internal or external walls						
Panel name:	nSPB 100 WA	nSPB 120 WA	nSPB 150 WA	nSPB 170 WA	nSPB 180 WA	nSPB 200 WA	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 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 (module 1200 mm):	L, M						
Thickness of internal facing:	0,5 - 0,7						mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L						
Core material:	MW						
Density of core material:	115						kg/m ³
Nominal panel thickness:	100	120	152	170	183	203	mm
Mass (module 1200 mm):	21	23.3	27.0	29.1	30.2	32.5	kg/m ²
Mechanical resistance:							
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.062	0.062	0.06	MPa
Reduced long term shear strength:	NPD						MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD						
Creep coefficient t=100000h:	NPD						
Wrinkling strength (external face):							
- in span	128	128	128	128	128	128	MPa
- in span, elevated temperature	124	124	124	124	124	124	MPa
- at central support	84	84	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	75	75	MPa
Wrinkling strength (internal face):							
- in span	128	128	128	128	128	128	MPa
- at internal support	84	84	84	84	84	84	MPa
Other properties:							
Thermal transmittance, U _{d,s} :	0.41	0.34	0.28	0.25	0.23	0.21	W/m ² K
Thermal conductivity of the core, λ _{Declared} :	0.043						W/mK
Reaction to fire:	A2-s1, d0						Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 90		EI 180				Class (EN 13501-2)
Fire resistance (wall, vertical):	EI 90		EI 180				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 _w):	32 (-2; -4)						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 64/MW/OBO

Panel type:	nSPB WF, nSPB WFB											
Reference to harmonized standard:	EN 14509:2013											
Intended use:	Internal or external walls											
Panel name:	nSPB 100 WF nSPB 100 WFB	nSPB 110 WF nSPB 110 WFB	nSPB 120 WF nSPB 120 WFB	nSPB 140 WF nSPB 140 WFB	nSPB 150 WF nSPB 150 WFB	nSPB 160 WF nSPB 160 WFB	nSPB 170 WF nSPB 170 WFB	nSPB 180 WF nSPB 180 WFB	nSPB 200 WF nSPB 200 WFB	nSPB 210 WF nSPB 210 WFB	nSPB 230 WF nSPB 230 WFB	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 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 (module 1100 mm):	L25*, L, M, R275, R550, F											
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F											
Thickness of internal facing:	0.5 - 0.7											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:	L25*, L, F											
Core material:	MW											
Density of core material:	125			115								kg/m ³
Nominal panel thickness:	100	110	120	140	152	160	170	183	203	208	230	mm
Mass (module 1100 mm):	22.1	23.3	24.6	25.7	27.0	28.0	29.1	30.3	32.6	33.5	35.8	kg/m ²
Mass (module 1000 mm):	22.1	23.4	24.6	25.7	27.1	28.0	29.2	30.3	32.6	33.5	35.8	kg/m ²
Mechanical resistance:												
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.06	0.053	MPa
Reduced long term shear strength:	NPD											MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD											
Creep coefficient t=100000h:	NPD											
Wrinkling strength (external face):												
- in span	128	128	128	128	128	128	128	128	128	120	120	MPa
- in span, elevated temperature	124	124	124	124	124	124	124	124	124	115	115	MPa
- at central support	84	84	84	84	84	84	84	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	75	75	75	75	75	75	75	MPa
Wrinkling strength (internal face):												
- in span	128	128	128	128	128	128	128	128	128	120	120	MPa
- at internal support	84	84	84	84	84	84	84	84	84	84	84	MPa
Other properties:												
Thermal transmittance, U _{fa} :	0.43	0.41	0.36	0.30	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m ² K
Thermal conductivity of the core, λ _{Declared} :	0.045			0.043								W/mK
Reaction to fire:	A2-s1, d0											Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 120				EI 240							Class (EN 13501-2)
Fire resistance (wall, vertical):	EI 120				EI 240							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 _a (C; C _b):	32 (-1; -4)											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 10 to Declaration of Performance 64/MW/OBO

Panel type:	nSPB WFA						
Reference to harmonized standard:	EN 14509:2013						
Intended use:	Internal or external walls						
Panel name:	nSPB 100 WFA	nSPB 120 WFA	nSPB 150 WFA	nSPB 170 WFA	nSPB 180 WFA	nSPB 200 WFA	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 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 (module 1200 mm):	L, M						
Thickness of internal facing:	0,5 - 0,7						mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L						
Core material:	MW						
Density of core material:	125		115				kg/m ³
Nominal panel thickness:	100	120	152	170	183	203	mm
Mass (module 1200 mm):	22.0	24.5	27.0	29.1	30.2	32.5	kg/m ²
Mechanical resistance:							
Tensile strength:	0.10	0.10	0.10	0.10	0.10	0.10	MPa
Shear strength:	0.062	0.062	0.062	0.062	0.062	0.062	MPa
Reduced long term shear strength:	NPD						MPa
Shear modulus (core):	3.0	3.0	3.0	3.0	3.0	3.0	MPa
Compressive strength (core):	0.09	0.09	0.09	0.09	0.09	0.09	MPa
Creep coefficient t=2000h:	NPD						
Creep coefficient t=10000h:	NPD						
Wrinkling strength (external face):							
- in span	128	128	128	128	128	128	MPa
- in span, elevated temperature	124	124	124	124	124	124	MPa
- at central support	84	84	84	84	84	84	MPa
- at central support, elevated temperature	75	75	75	75	75	75	MPa
Wrinkling strength (internal face):							
- in span	128	128	128	128	128	128	MPa
- at internal support	84	84	84	84	84	84	MPa
Other properties:							
Thermal transmittance, U _{A,S} :	0.43	0.36	0.28	0.25	0.23	0.21	W/m ² K
Thermal conductivity of the core, λ _{Declared} :	0.045		0.043				W/mK
Reaction to fire:	A2-s1, d0						Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 120		EI 240				Class (EN 13501-2)
Fire resistance (wall, vertical):	EI 120		EI 240				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}):	32 (-1; -4)						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 11 to Declaration of Performance 64/MW/OBO

Panel type:	nSPB WS, nSPB WSB												
Reference to harmonized standard:	EN 14509:2013												
Intended use:	Internal or external walls, ceilings												
Panel name:	nSPB 100 WS nSPB 100 WSB	nSPB 110 WS nSPB 110 WSB	nSPB 120 WS nSPB 120 WSB	nSPB 140 WS nSPB 140 WSB	nSPB 150 WS nSPB 150 WSB	nSPB 160 WS nSPB 160 WSB	nSPB 170 WS nSPB 170 WSB	nSPB 180 WS nSPB 180 WSB	nSPB 200 WS nSPB 200 WSB	nSPB 210 WS nSPB 210 WSB	nSPB 230 WS nSPB 230 WSB	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 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 (module 1100 mm):	L25*, L, M, R275, R550, F												
External facing profile (module 1000 mm):	L25*, L, M, R28, R250, R500, F												
Thickness of internal facing:	0.5 - 0.7											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:	L25*, L, F												
Core material:	MW												
Density of core material:	125											kg/m ³	
Nominal panel thickness:	100	110	120	140	152	160	170	183	203	208	230	mm	
Mass (module 1100 mm):	22.1	23.3	24.6	27.1	28.6	29.6	30.8	32.1	34.6	35.6	38.1	kg/m ²	
Mass (module 1000 mm):	22.5	23.4	24.6	27.1	28.6	29.6	30.9	32.1	34.6	35.6	38.1	kg/m ²	
Mechanical resistance:													
Tensile strength:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	MPa	
Shear strength:	0.10	0.10	0.10	0.09	0.086	0.083	0.081	0.079	0.076	0.071	0.064	MPa	
Reduced long term shear strength:	0.04	0.04	0.04	0.036	0.034	0.033	0.032	0.032	0.03	0.028	0.026	MPa	
Shear modulus (core):	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	MPa	
Compressive strength (core):	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	MPa	
Creep coefficient t=2000h:	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40		
Creep coefficient t=100000h:	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45		
Wrinkling strength (external face) at profiling L25:													
- in span	185	185	185	185	180	180	180	180	180	180	180	MPa	
- in span, elevated temperature	165	165	165	165	165	165	165	165	165	165	165	MPa	
- at central support	96	96	96	96	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	86	86	86	86	MPa	
Wrinkling strength (external face) at profiling L, M:													
- in span	150	150	150	150	165	165	165	165	165	165	151	MPa	
- in span, elevated temperature	135	135	135	135	150	150	150	150	150	150	136	MPa	
- at central support	96	96	96	96	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	86	86	86	86	MPa	
Wrinkling strength (external face) at profiling R275, R550, R28, R250, R500, F:													
- in span	150	150	150	150	150	150	150	150	150	150	150	MPa	
- in span, elevated temperature	135	135	135	135	135	135	135	135	135	135	135	MPa	
- at central support	96	96	96	96	96	96	96	96	96	96	96	MPa	
- at central support, elevated temperature	86	86	86	86	86	86	86	86	86	86	86	MPa	
Wrinkling strength (internal face) at profiling L25:													
- in span	185	185	185	185	180	180	180	180	180	180	180	MPa	
- at internal support	96	96	96	96	96	96	96	96	96	96	96	MPa	
Wrinkling strength (internal face) at profiling L:													
- in span	150	150	150	150	165	165	165	165	165	165	165	MPa	
- at internal support	96	96	96	96	96	96	96	96	96	96	96	MPa	
Wrinkling strength (internal face) at profiling F:													
- in span	150	150	150	150	150	150	150	150	150	150	150	MPa	
- at internal support	96	96	96	96	96	96	96	96	96	96	96	MPa	
Resistance to repeated access load:	Not suitable for occasional foot traffic for access or maintenance												
Other properties:													
Thermal transmittance, U _{GL} :	0.43	0.41	0.36	0.31	0.29	0.27	0.26	0.24	0.22	0.21	0.19	W/m ² K	
Thermal conductivity of the core, λ _{0,05/0,05} :	0.045											W/mK	
Reaction to fire:	A2-s1, d0											Class	(EN 13501-1)
Fire resistance (wall, horizontal):	EI 90				EI 180						Class	(EN 13501-2)	
Fire resistance (wall, vertical):	EI 90				EI 180						Class	(EN 13501-2)	
Fire resistance (ceiling):	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 _p):	32 (-2; -4)											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 12 to Declaration of Performance 64/MW/OBO

Panel type:	nSPB WSA						
Reference to harmonized standard:	EN 14509:2013						
Intended use:	Internal or external walls, ceilings						
Panel name:	nSPB 100 WSA	nSPB 120 WSA	nSPB 150 WSA	nSPB 170 WSA	nSPB 180 WSA	nSPB 200 WSA	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 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 (module 1200 mm):	L, M						
Thickness of internal facing:	0,5 - 0,7						mm (EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+Z100, S280GD+ZM140, S280GD+ZM120, S280GD+ZM100, S280GD+ZA255, S280GD+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:	L25*, L						
Core material:	MW						
Density of core material:	125						kg/m ³
Nominal panel thickness:	100	120	152	170	183	203	mm
Mass (module 1200 mm):	22.0	24.5	28.5	30.8	32.0	34.5	kg/m ²
Mechanical resistance:							
Tensile strength:	0.13	0.13	0.13	0.13	0.13	0.13	MPa
Shear strength:	0.10	0.10	0.086	0.081	0.079	0.076	MPa
Reduced long term shear strength:	0.04	0.04	0.034	0.032	0.032	0.03	MPa
Shear modulus (core):	6.0	6.0	6.0	6.0	6.0	6.0	MPa
Compressive strength (core):	0.115	0.115	0.115	0.115	0.115	0.115	MPa
Creep coefficient t=2000h:	0.40	0.40	0.40	0.40	0.40	0.40	
Creep coefficient t=100000h:	0.45	0.45	0.45	0.45	0.45	0.45	
Wrinkling strength (external face) at profiling L, M:							
- in span	150	150	165	165	165	165	MPa
- in span, elevated temperature	135	135	150	150	150	150	MPa
- at central support	96	96	96	96	96	96	MPa
- at central support, elevated temperature	86	86	86	86	86	86	MPa
Wrinkling strength (internal face) at profiling L25:							
- in span	185	185	180	180	180	180	MPa
- at internal support	96	96	96	96	96	96	MPa
Wrinkling strength (internal face) at profiling L:							
- in span	150	150	165	165	165	165	MPa
- at internal support	96	96	96	96	96	96	MPa
Resistance to repeated access load:	Not suitable for occasional foot traffic for access or maintenance						
Other properties:							
Thermal transmittance, U _{g,s} :	0.43	0.36	0.29	0.26	0.24	0.22	W/m ² K
Thermal conductivity of the core, λ _{declared} :	0.045						W/mK
Reaction to fire:	A2-s1, d0						Class (EN 13501-1)
Fire resistance (wall, horizontal):	EI 90		EI 180				Class (EN 13501-2)
Fire resistance (wall, vertical):	EI 90		EI 180				Class (EN 13501-2)
Fire resistance (ceiling):	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 _b):	32 (-2; -4)						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 13 to Declaration of Performance 64/MW/OBO

Panel type:	nSPC W				
Reference to harmonized standard:	EN 14509:2013				
Intended use:	Roof panel				
Panel name:	nSPC 140/100 W	nSPC 160/120 W	nSPC 190/150 W	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+ZM140, S280GD+ZM120, S280GD+ZA255 S250GD+Z275, S250GD+ZM140, S250GD+ZM120, S250GD+ZA255				(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:	T				
Thickness of internal facing:	0,5 - 0,7			mm	(EN 10143)
Internal facing - steel grade:	S280GD+Z275, S280GD+ZA255, S280GD+ZM140, S280GD+ZM120, S280GD+Z100, S280GD+ZM100, S280GD+ZA095 S250GD+Z275, S250GD+ZA255, S250GD+ZM140, S250GD+ZM120, S250GD+Z100, S250GD+ZM100, 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				
Core material:	MW				
Density of core material:	115			kg/m ³	
Nominal panel thickness:	100	120	150	mm	
Mass:	21.9	24.2	27.7	kg/m ²	
Mechanical resistance:					
Tensile strength:	0.08	0.08	0.08	MPa	
Shear strength:	0.042	0.042	0.042	MPa	
Reduced long term shear strength:	0.0168	0.0168	0.0168	MPa	
Shear modulus (core):	1.9	1.9	2.6	MPa	
Compressive strength (core):	0.09	0.09	0.085	MPa	
Creep coefficient t=2000h:	0.26	0.26	0.26		
Creep coefficient t=100000h:	0.30	0.30	0.30		
Wrinkling strength (external face):					
- in span	170	170	170	MPa	
- in span, elevated temperature	170	170	170	MPa	
- at central support	170	170	170	MPa	
- at central support, elevated temperature	170	170	170	MPa	
Wrinkling strength (internal face):					
- in span	110	110	100	MPa	
- at internal support	104	100	100	MPa	
Resistance to repeated access load:	Not suitable for occasional foot traffic for access or maintenance				
Other properties:					
Thermal transmittance, U _{g,s} :	0.40	0.35	0.27	W/m ² K	
Thermal conductivity of the core, λ _{Declared} :	0.043			W/mK	
Reaction to fire:	A2-s1, d0			Class	(EN 13501-1)
Fire resistance:	REI 90 / RE 240			Class	(EN 13501-2)
External fire performance:	B _{ROOF} (t1, t2, t3)			Class	(CWFT)
Water permeability:	A			Class	(EN 12865)
Air permeability:	NPD				
Water vapour permeability:	Impermeable				
Airborne sound insulation, R _w (C; C _w):	34 (-1; -4)			dB	(EN ISO 717-1)
Sound absorption, α _w :	0.10				(EN ISO 11654)
Durability:	Pass - all colours				

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