CE

DECLARATION OF PERFORMANCE
No. 64

1. Unique identification code of product type:

Sandwich panel with W mineral wool core

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

Sandwich panel with WF mineral wool core

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

Sandwich panel with WS mineral wool core

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

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:

Elżbieta Płaza
Certification Manager
Ruukki Construction

Helsinki, 06.07.2026

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

ENERGY PANELS:

OTHER PANELS:

Attachment 1 to Declaration of Performance 64

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, R28, 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 temparature	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, $U_{d.s}$:	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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_{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 2 to Declaration of Performance 64

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):	L25*, 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 temparature	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, $\lambda_{Declared}$:	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_{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 3 to Declaration of Performance 64

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, R28, 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 temparature	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, $U_{d,s}$:	0.28	0.26	0.25	0.23	0.21	0.20	0.18	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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_{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 4 to Declaration of Performance 64

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):	L25*, 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 temparature	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, $\lambda_{Declared}$:	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_{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 5 to Declaration of Performance 64

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, R28, 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=100000h:	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 temparature	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 temparature	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 temparature	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, $U_{d,s}$:	0.29	0.27	0.26	0.24	0.22	0.21	0.19	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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

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:	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 temparature	86	86	86	86	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, $\lambda_{Declared}$:	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 7 to Declaration of Performance 64

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, R28, 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 temparature	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, $U_{d,s}$:	0.51	0.41	0.38	0.34	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, $\lambda_{Declared}$:	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													
Water permeability:	A												Class	(EN 12865)
Air permeability, pressure (per 1m^2), panels with gasket:	NPD					n = 0.675, C = 0.001								(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD					n = 0.273, C = 0.003								(EN 12114)
Air permeability, panels without gasket:	NPD													
Water vapour permeability:	Impermeable													
Airborne sound insulation, R_w(C; C_{tr}):	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

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):	L25*, 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 temparature	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, $\lambda_{Declared}$:	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 1m^2), panels with gasket:	NPD		n = 0.675, C = 0.001					(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD		n = 0.273, C = 0.003					(EN 12114)
Air permeability, panels without gasket:	NPD							
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 9 to Declaration of Performance 64

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, R28, 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	0.06	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	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 temparature	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, $U_{d.s}$:	0.44	0.40	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, $\lambda_{Declared}$:	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 1m^2), panels with gasket:	NPD			n = 0.675, C = 0.001									(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD			n = 0.273, C = 0.003									(EN 12114)
Air permeability, panels without gasket:	NPD												
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 10 to Declaration of Performance 64

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):	L25*, 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	0.06	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 temparature	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, $U_{d,s}$:	0.44	0.36	0.28	0.25	0.23	0.21	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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 1m^2), panels with gasket:	NPD		n = 0.675, C = 0.001					(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD		n = 0.273, C = 0.003					(EN 12114)
Air permeability, panels without gasket:	NPD							
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 11 to Declaration of Performance 64

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, R28, 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 temparature	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 temparature	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 temparature	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												
Resistance to point load:	1.2 kN 6.0 m												
Other properties:													
Thermal transmittance, $U_{d.s}$:	0.44	0.40	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, $\lambda_{Declared}$:	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 1m^2), panels with gasket:	NPD				n = 0.675, C = 0.001								(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD				n = 0.273, C = 0.003								(EN 12114)
Air permeability, panels without gasket:	NPD												
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 12 to Declaration of Performance 64

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:	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 temparature	86	86	86	86	86	86	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							
Resistance to point load:	1.2 kN 6.0 m							
Other properties:								
Thermal transmittance, $U_{d,s}$:	0.44	0.36	0.29	0.26	0.24	0.22	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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 1m^2), panels with gasket:	NPD		n = 0.675, C = 0.001					(EN 12114)
Air permeability, suction (per 1m^2), panels with gasket:	NPD		n = 0.273, C = 0.003					(EN 12114)
Air permeability, panels without gasket:	NPD							
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							

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

Attachment 13 to Declaration of Performance 64

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:	L25*, L				
Core material:	MW				
Density of core material:	115			kg/m^3	
Nominal panel thickness:	100	120	152	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 temparature	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, $U_{d,s}$:	0.40	0.35	0.27	W/m^{2}K	
Thermal conductivity of the core, $\lambda_{Declared}$:	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_{tr}):	34 (-1; -4)			dB	(EN ISO 717-1)
Sound absorption, α_w:	0.10				(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.