

DOP Declaration of Performance mineral wool panels

Nr. 01 2022

1. Unique identification code of the product type

Límtré Vírnet Yleiningar SF and Límtré Vírnet Yleiningar ST

2. Type or batch allowing identification of the construction product.

- Thickness classes and panel types of Límtré Vírnet Yleiningar

Panel thickness classes	Panel Type	Nominal Thickness	Brand Name
63	SF	63	SF-63
82	SF	82	SF-82
105	SF	105	SF-105
129	SF	129	SF-129
167	SF	167	SF-167
196	SF	196	SF-196
107	ST	63	ST-107
126	ST	82	ST-126
149	ST	105	ST-149
173	ST	129	ST-173
211	ST	167	ST-211
240	ST	196	ST-240

- Core Material Mineral wool
- Density 100 kg/m³
- Steel thickness 0,6 mm
- Coating system GreenCoat Pro BT

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer.

- self-supporting metal faced insulating panels for use in buildings; external walls, internal walls, ceiling and roofs.

4. Name, registered trade name or registered trademark and contact address of the manufacturer.

- Límtré Vírnet ehf, Borgarbraut 74, 310 Borgarnes.

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5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

- AVCP 3

6. Harmonized standard.

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

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7. Declared performance:

Panel type	SF							
Harmonized standard	EN 14509:2013							
Year when CE marking was affixed	2022							
Intended uses	External walls or Internal walls, Ceilings or Roofs ¹							
Panel thickness classes	63	82	105	129	167	196	Reference *	
Thickness of external facing	0,6						mm	EN 10143
External facing – steel grade	S 280 GD Z275							EN 10346
Coating of external facing	GreenCoat Pro BT - Primer thickness, 10 µm - Coating thickness, 36 µm Corrosion resistance RC5							EN 10169
Thickness of internal facing	0,6						mm	EN 10143
Internal facing – steel grade	S 280 GD Z275							EN 10346
Coating of internal facing	GreenCoat Pro BT - Primer thickness, 10 µm - Coating thickness, 36 µm Corrosion resistance RC5							EN 10169
Density of core material	100						Kg/m ³	
Nominal thickness of panel	63	82	105	129	167	196	mm	
Weight	17	20	22	25	30	33	Kg/m	
Reaction to Fire	B-s1, d0							EN 13501-1
Resistance to Fire	SF-105 panels for EI60 walls							EN 13501-2
Thermal transmittance	0,58	0,45	0,36	0,30	0,23	0,20	W/m ² K	
Thermal conductivity of the core λ_{Design}	0,039						W/mK	
Water permeability	NPD							
Water vapour permeability	NPD							
Air permeability	NPD							
Airborne Sound Insulation	NPD							
Sound absorption	NPD							
Durability	Passed							
Mechanical resistance	63	82	105	129	167	196		
Cross panel tensile strength	0,120	0,118	0,110	0,108	0,101	0,090	Mpa	
Compressive strength	0,055	0,055	0,055	0,055	0,055	0,055	Mpa	
Shear strength	0,056	0,056	0,056	0,056	0,056	0,056	Mpa	
Reduced long term shear strength	0,022	0,022	0,022	0,022	0,022	0,022	Mpa	
Shear module	4,580	4,580	4,580	4,580	4,580	4,580	Mpa	
Creep coefficient t=2000 h	1,1							
Creep coefficient t=100000 h	1,2							
Wrinkling strength , external face, span	114	114	113	111	106	100	Mpa	
Wrinkling strength , external face, span, elevated temperature	114	114	113	111	106	100	Mpa	
Wrinkling strength , internal face, span	111	111	111	109	103	98	Mpa	
Wrinkling strength, external face mid support ambient and elevated temperature	F1, F3, F5	75	72	69	66	62	58	Mpa
	F2, F4, F6	82	78	73	68	61	55	Mpa
Wrinkling strength , internal face	102	99	96	91	84	79	Mpa	
Stress distribution factor k over support	1,0	0,9	0,9	0,7	0,6	0,5		
Resistance to point load	NPD							
Resistance to access load	NPD							

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Panel type	ST								
Harmonized standard	EN 14509:2013								
Year when CE marking was affixed	2022								
Intended uses	External walls or Internal walls, Ceilings or Roofs ¹								
Panel thickness classes	107	126	149	173	211	240		Reference*	
Thickness of external facing	0,6						mm	EN 10143	
External facing – steel grade	S 280 GD Z275							EN 10346	
Coating of external facing	GreenCoat Pro BT - Primer thickness, 10 µm - Coating thickness, 36 µm Corrosion resistance RC5							EN 10169	
Thickness of internal facing	0,6						mm	EN 10143	
Internal facing – steel grade	S 280 GD Z275							EN 10346	
Coating of internal facing	GreenCoat Pro BT - Primer thickness, 10 µm - Coating thickness, 36 µm Corrosion resistance RC5							EN 10169	
Density of core material	100						Kg/m ³		
Nominal thickness of panel	63	82	105	129	167	196	mm		
Weight	19	21	24	27	31	35	Kg/m		
Reaction to Fire	B-s1, d0							EN 13501-1	
Resistance to Fire	SF-105 panels for EI60 walls							EN 13501-2	
Thermal transmittance	0,52	0,42	0,33	0,28	0,22	0,19	W/m ² K		
Thermal conductivity of the core λ_{Design}	0,039								
Water permeability	NPD								
Water vapour permeability	NPD								
Air permeability	NPD								
Airborne Sound Insulation	NPD								
Sound absorption	NPD								
Durability	Passed								
Mechanical resistance	107	126	149	173	211	240			
Cross panel tensile strength	0,110	0,109	0,095	0,095	0,083	0,064	Mpa		
Compressive strength	0,060	0,060	0,060	0,060	0,060	0,060	Mpa		
Shear strength	0,060	0,060	0,060	0,060	0,060	0,060	Mpa		
Reduced long term shear strength	0,024	0,024	0,024	0,024	0,024	0,024	Mpa		
Shear module	4,310	4,310	4,310	4,310	4,310	4,310	Mpa		
Creep coefficient t=2000 h	1,1								
Creep coefficient t=100000 h	1,2								
Wrinkling strength , external face, span ambient and elevated temperature	267	224	180	145	108	94	Mpa		
Wrinkling strength , internal face, span	152	152	146	136	108	77	Mpa		
Wrinkling strength , external face mid support, ambient and elevated temperature	F7, F9, F11	191	175	157	142	121	107	Mpa	
	F8, F10, F12	184	194	163	187	182	110	Mpa	
Wrinkling strength , internal face, mid support	79	85	89	91	86	74	Mpa		
Stress distribution factor k over support	1,0	0,9	0,8	0,7	0,6	0,5			
Resistance to point load	NPD								
Resistance to access load	NPD								
¹ with separate water membrane installed									

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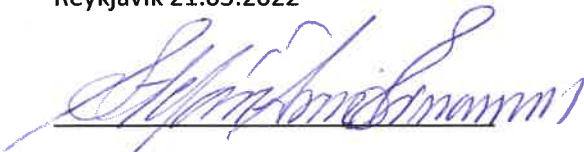
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The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7.

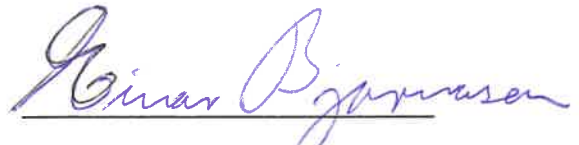
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Reykjavík 21.03.2022



Stefán Árni Einarsson CEO

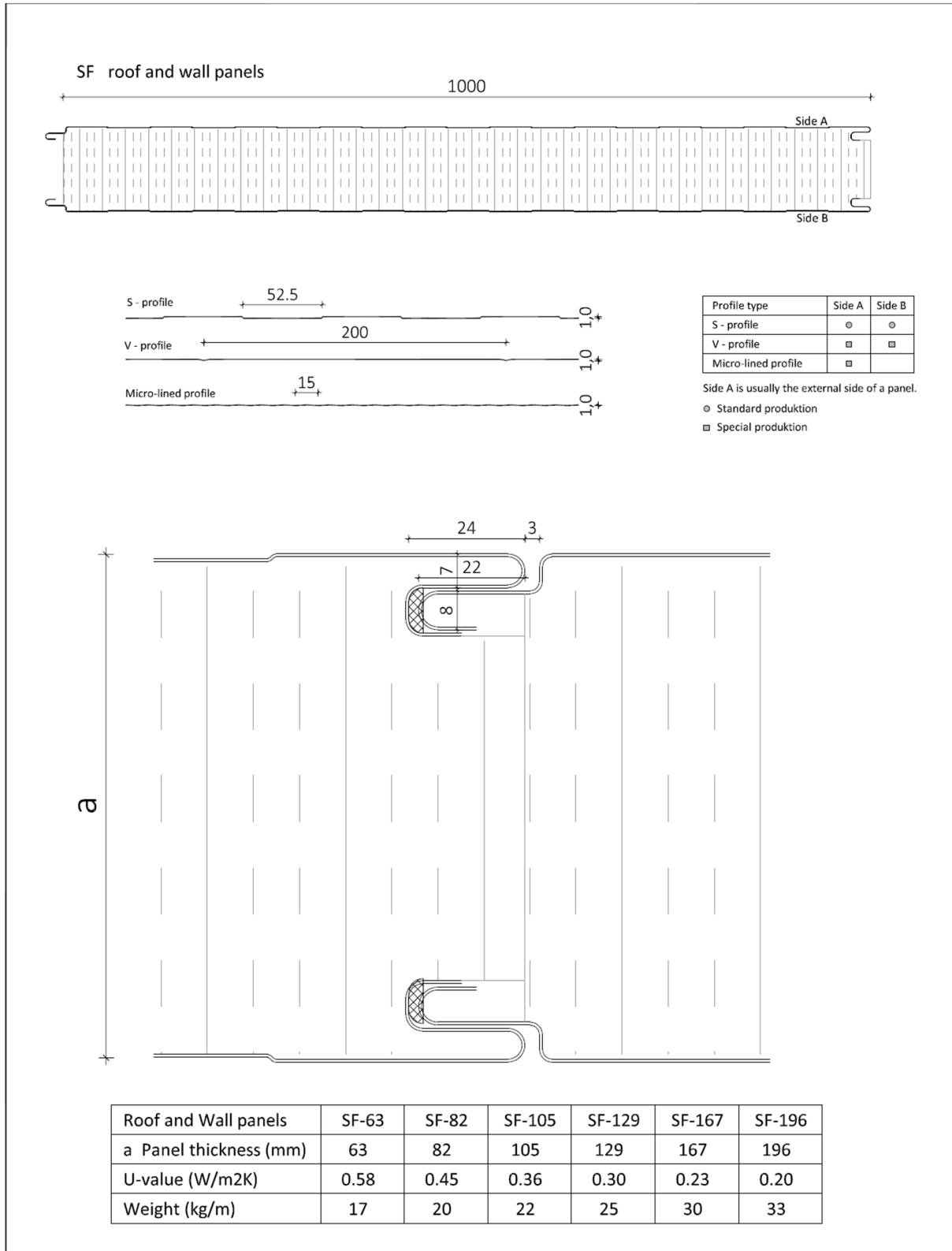


Einar Bjarnason Quality manager

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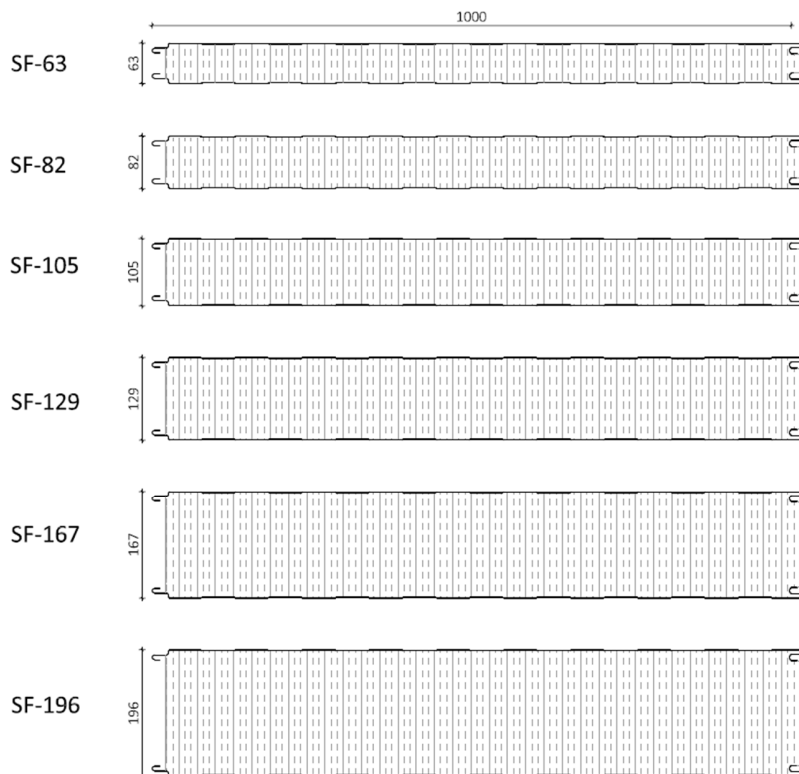
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Annex A Appearance and size characteristics of Límtré Vírnet yleiningar



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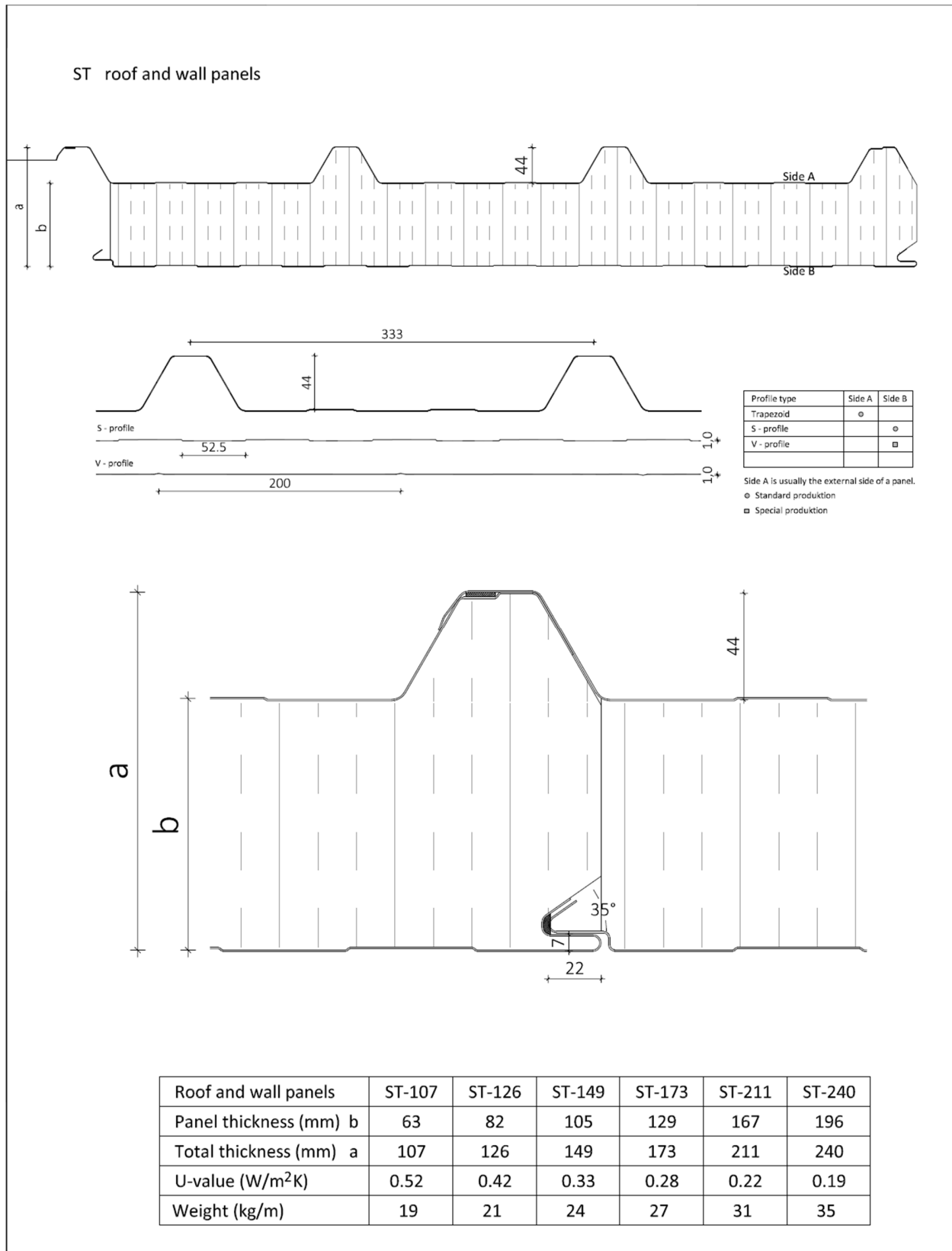
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Roof and Wall panels	SF-63	SF-82	SF-105	SF-129	SF-167	SF-196
Panel thickness (mm)	63	82	105	129	167	196
U-value (W/m ² K)	0.58	0.45	0.36	0.30	0.23	0.20
Weight (kg/m)	17	20	22	25	30	33

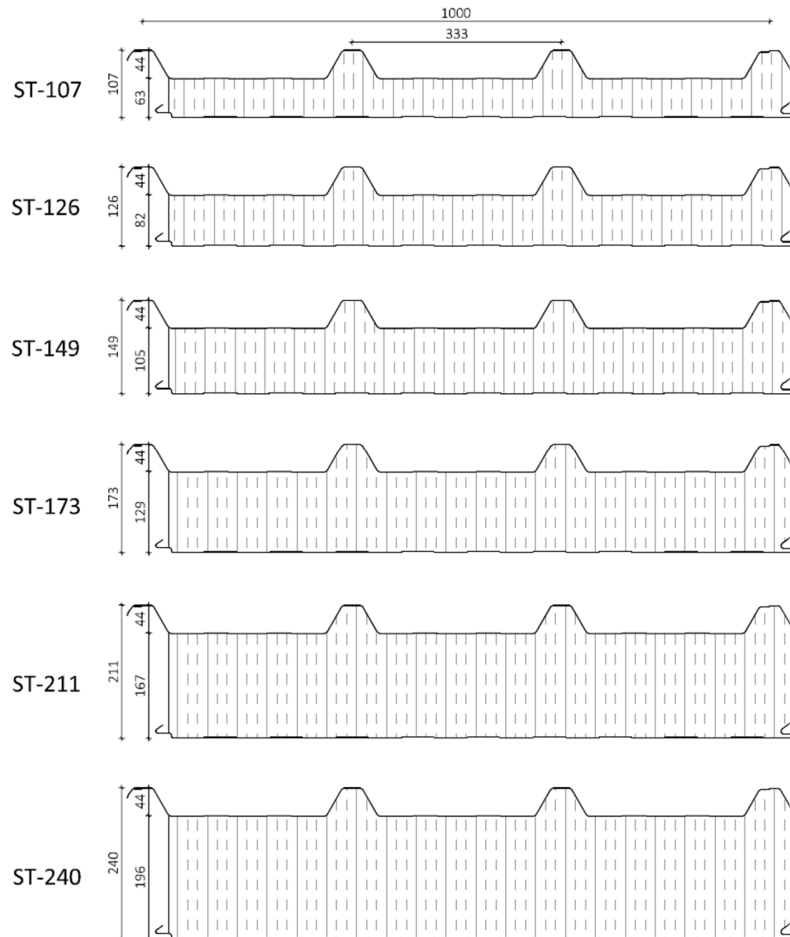
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Roof and wall panels	ST-107	ST-126	ST-149	ST-173	ST-211	ST-240
Panel thickness (mm)	63	82	105	129	167	196
Total thickness (mm)	107	126	149	173	211	240
U-value (W/m ² K)	0.52	0.42	0.33	0.28	0.22	0.19
Weight (kg/m)	19	21	24	27	31	35