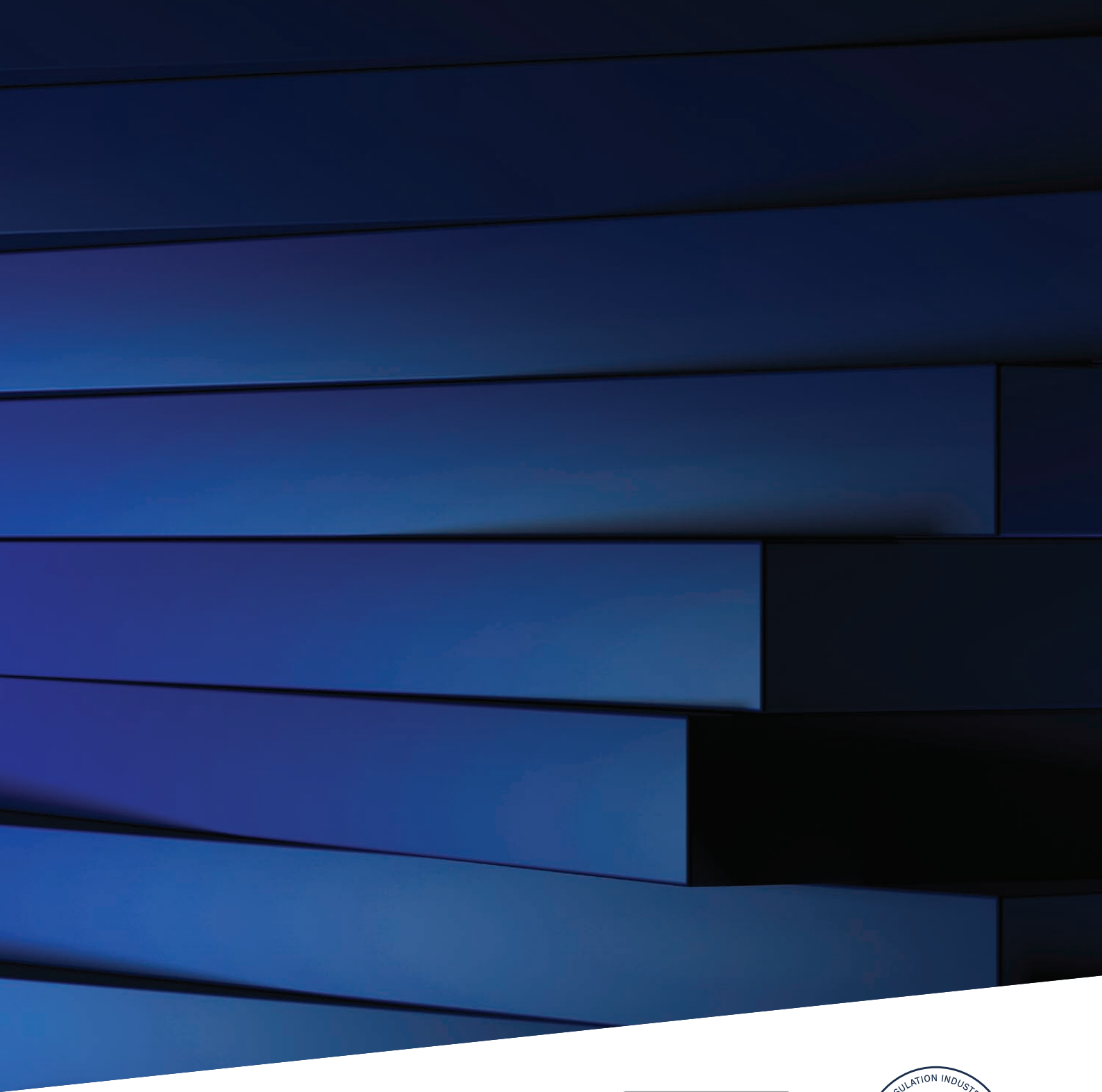




TENAXPANEL





TENAXPANEL

TENAX Ltd. founded in Dobele, Latvia, in 1991 is now the biggest sandwich panel and insulation material producer in the Baltics.

Tenax Panel is a production company of the Tenax Group and manufactures top quality wall and roof solutions for industrial buildings, freezers, warehouses and agriculture buildings.

Main sales areas

Latvia, Estonia, Lithuania, Sweden, Norway, Finland, Denmark, Iceland

> 3 000 000 m²

covered with Tenax sandwich panels

Key Advantages



Custom made solutions
Engineering and project design



High quality raw materials using environmentally compatible metal coatings: C5, Food safe etc.



Reduced cutting and waste on site. 4 different module widths

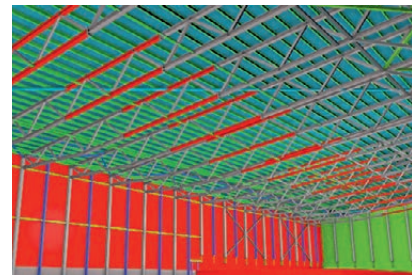


Profiles and flashings available and delivered with panels. Same mother coil for panels and details – no color mismatch.



Sustainable Management of CO₂

PROFESSIONAL ENGINEERING SOLUTIONS

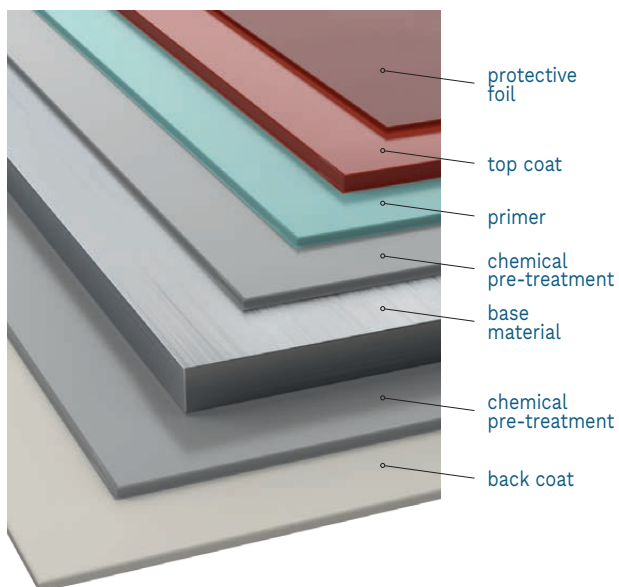


Certificates





Solutions for



STEEL THICKNESS

Standard: 0.5 mm/0.5 mm
Options: 0.4, 0.6, 0.7, 0.8 mm

STEEL COATING

Standard: PE/PE
Options: PVDF, PVC, PUR etc. on request

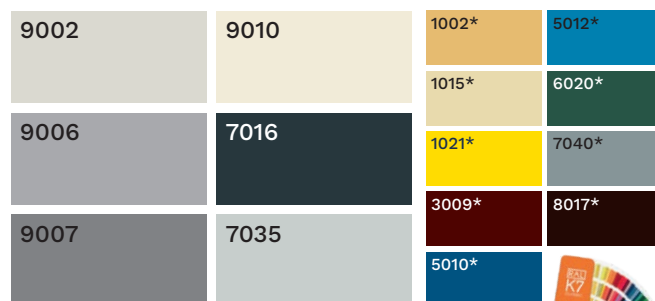
CORROSION CLASS

Standard: C3 PE; Options: C3 – C5

UV RESISTANCE

Standard: RUV3; Options: RUV3 – RUV5

RAL Standard color palette

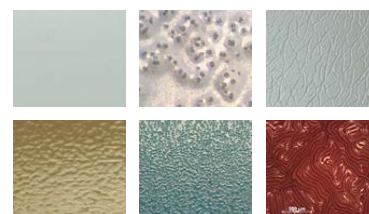


* on request; min amount 500 m²

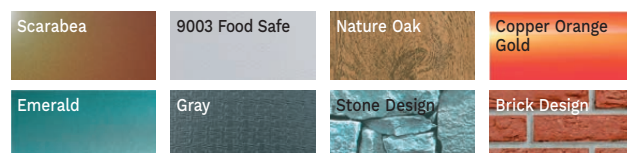
** colors can also be ordered according to RR and NCS systems with prior agreement

*** Standard color for internal surface 9010

The final appearance of prepainted metal depends also on the type of resin used, film thickness, gloss, and the surface texture (structured, granulated, embossed, metallic, ...)



Non standard coating alternatives

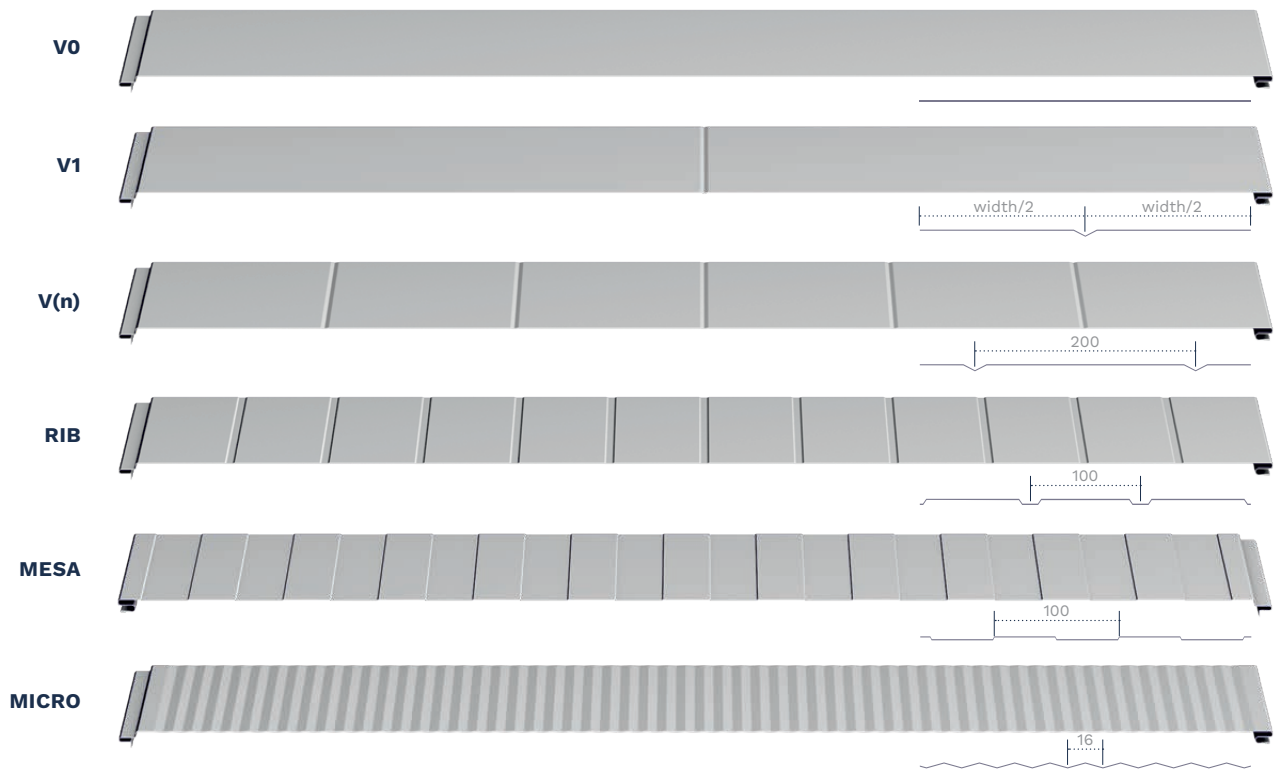


SANDWICH PANELS FOR WALLS

TENAX PANEL sandwich elements are manufactured in a wide range of thicknesses, with different thermal insulation cores, panel joints and steel profiles. All these components have a significant influence on the performance characteristics and the structural appearance. Lightly profiled panels TENAX W are manufactured with STANDARD TYPE, THERMO-LOCK, HIDDEN TYPE joints.

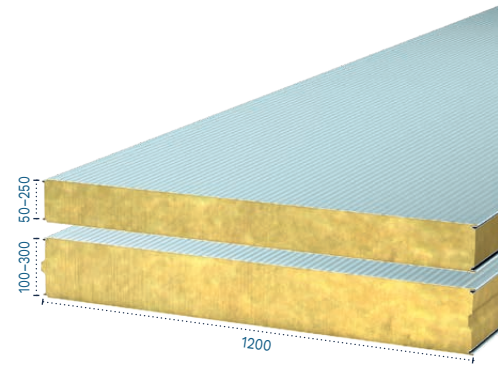
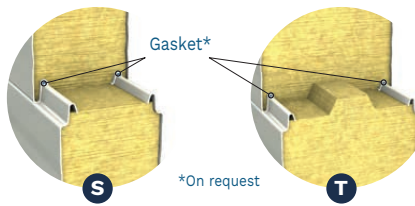


STEEL FACING PROFILE OPTIONS



Panel facing	Profiling					
	V0	V1	V(n)	MESA	RIB	MICRO
Facing on the building's outer surface			✓	✓	✓	✓
Facing on the building's inner surface	✓	✓	✓	✓		

TENAX W MW S/T MINERAL WOOL



Tenax W MW S/T – mineral wool sandwich panels with standard (S) or thermo-lock (T) joint

Panel width/cover width, mm	1216/1200								
Length, mm	2000–13500 (step 10 mm)								
TENAX W MW S2 , Thickness, mm	50	80							
TENAX W MW T2 , Thickness, mm			100	120	150	175	200	240	300
Weight of calculation area, kg/m ²	14.60	17.9	20.10	22.30	25.60	28.40	31.5	35.50	42.1
Reaction to fire (class, EN 13501-1)	A2-s1, d0								
Fire resistance (class, EN 13501-2) horizontal installation	NPD	NPD	EI60	EI60	EI120	EI120	EI180	EI180	EI180
Fire resistance (class, EN 13501-2) vertical installation	NPD	NPD	EI60	EI60	EI120	EI120	EI120	EI120	EI120
Thermal transmittance (U-value), W/m ² ·K	0.80	0.50	0.40	0.34	0.27	0.23	0.20	0.17	0.14

Tenax W MW Strong S/T – mineral wool sandwich panels with standard (S) or thermo-lock (T) joint

TENAX W MW Strong S2 , Thickness, mm	50	80							
TENAX W MW Strong T2 , Thickness, mm			100	120	150	175	200	240	300
Weight of calculation area, kg/m ²	15.10	18.70	21.10	23.50	27.10	30.10	33.5	37.90	45.1
Reaction to fire (class, EN 13501-1)	A2-s1, d0								
Fire resistance (class, EN 13501-2) horizontal installation	NPD	NPD	EI60	EI60	EI120	EI120	EI180	EI180	EI180
Fire resistance (class, EN 13501-2) vertical installation	NPD	NPD	EI60	EI60	EI120	EI120	EI120	EI120	EI120
Thermal transmittance (U-value), W/m ² ·K	0.85	0.53	0.43	0.36	0.29	0.25	0.22	0.18	0.15

Tenax W MW Thermo Plus S/T – mineral wool sandwich panels with standard (S) or thermo-lock (T) joint

TENAX W MW Thermo Plus S2 , Thickness, mm									
TENAX W MW Thermo Plus T2 , Thickness, mm			100	120	150	175	200	240	300
Weight of calculation area, kg/m ²			17.50	19.20	21.80	23.40	26.00	29.40	34.5
Reaction to fire (class, EN 13501-1)	A2-s1, d0								
Fire resistance (class, EN 13501-2) horizontal installation			NPD	NPD	NPD	NPD	EI120	EI120	EI120
Thermal transmittance (U-value), W/m ² ·K			0.38	0.32	0.26	0.22	0.19	0.16	0.13

TENAX W MW S SECURITY – mineral wool sandwich panels with standard joint

Panel width/cover width, mm	1211/1200			
Length, mm	2000–12000 (step 10 mm)			
Thickness, mm			200	240
Weight of calculation area, kg/m ²			31.70	36.10
Reaction to fire (class, EN 13501-1)	A2-s1, d0			
Fire resistance (class, EN 13501-2)			EI120	EI120
Thermal transmittance (U-value), W/m ² ·K			0.21	0.17



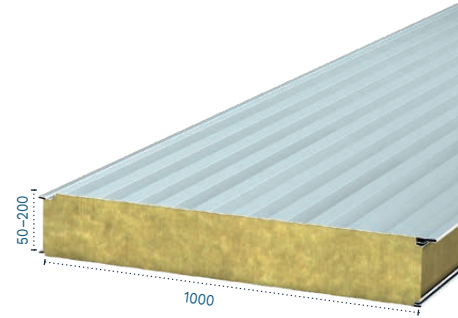
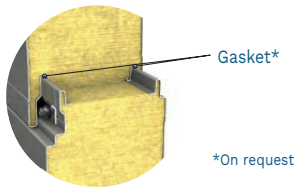
PROFILE OF THE STEEL FACINGS: **V1 / V5 / RIB / MESA / MICRO**



95,000 m² of warehouse for DSV – Global Transport and Logistics. The warehouse, which has just been put into operation, is located in Hedehusene close to Copenhagen. As one of the first major warehouses, the building has already received a DGNB Silver pre-certification. We have delivered 12,300 m² MW 150 and MW 100 panels for the construction of the first building in 2020, 10,000 m² in 2021 and the 3rd stage is also planned in amount 8,000 m² sandwich panels to cover.

The modern "Orkla" production plant consists of five buildings – a two-story production building and several buildings for technical needs. The total area is 7,820 m² and we have delivered more than 4,900 m² of Tenax sandwich panels in 2019. The cooperation continued and we were material suppliers for new biscuit and waffle factory building as well, which is now located at the adjacent address and consists of 4 buildings – production plant, warehouse, purification and pass buildings. Tenax external wall panels MW 200 in amount of 7,000 m² and MW 100mm internal walls in amount of 15,000 m² have been delivered. PUR coating for the external wall facades was used which is particularly resistant to corrosion, ultraviolet radiation and chemical effects, while the FOODSAFE coating (PVC) used for internal walls which is intended for use in areas where is contact with food products.

TENAX W MW H MINERAL WOOL



TENAX W MW H – mineral wool sandwich panels with hidden joint

Panel width/cover width, mm	1050/1000						
Length, mm	2000–13500 (step 10 mm)						
TENAX W MW H2 , Thickness, mm	80	100	120	150	175	200	240
Weight of calculation area, kg/m ²	18.30	20.50	22.70	26.00	28.7	31.50	35.90
Reaction to fire (class, EN 13501-1)	A2-s1, d0						
Fire resistance (class, EN 13501-2) vertical installation		NPD	EI30/EI30	EI30/EI30	EI120/EI60	EI120/EI60	EI120/EI60
Thermal transmittance (U-value), W/m ² ·K	0.53	0.42	0.35	0.28	0.24	0.20	0.17
TENAX W MW Thermo Plus H2 , Thickness, mm	80	100	120	150	175	200	240
Weight of calculation area, kg/m ²	17.1	19.0	20.9	23.7	26.1	28.8	32.3
Reaction to fire (class, EN 13501-1)	A2-s1, d0						
Thermal transmittance (U-value), W/m ² ·K	0.50	0.40	0.33	0.26	0.23	0.20	0.16
TENAX W MW Strong H2 , Thickness, mm	80	100	120	150	175	200	240
Weight of calculation area, kg/m ²	19.1	21.5	23.9	27.5	30.5	33.9	38.3
Reaction to fire (class, EN 13501-1)	A2-s1, d0						
Fire resistance (class, EN 13501-2) vertical installation	NPD	EI30/EI30	EI30/EI30	EI120/EI60	EI120/EI60	EI120/EI60	EI120/EI60
Thermal transmittance (U-value), W/m ² ·K	0.56	0.44	0.37	0.30	0.25	0.22	0.18

PROFILE OF THE STEEL FACINGS: **V1 / V4 / RIB / MESA / MICRO**

NON-STANDARD SOLUTIONS

Tenax Panel's expertise enables specific, non-standard, customer solutions.

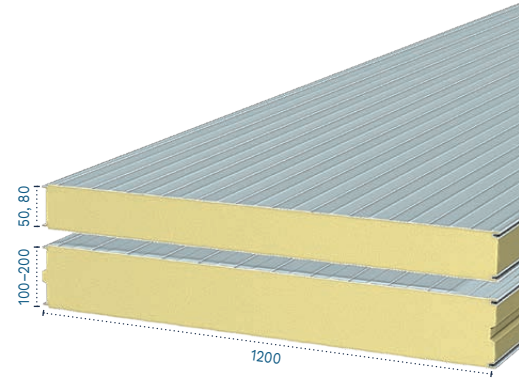
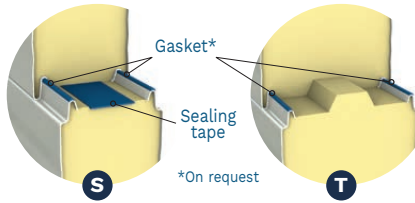
Example: Tenax TR MW 100mm Roof panels used as wall solution.

Location: Hafnarfjörður, Iceland. Amount: 1300m²



TENAX W PIR S/T POLYISOCYANURATE FOAM

TENAX W PUR S/T POLYURETHANE FOAM



Tenax W PIR S/T – polyisocyanurate foam sandwich panels with standard (S) or thermo-lock (T) joint

Panel width/cover width, mm	1216/1200						
Length, mm	2000–13500						
TENAX W PIR S1 , Thickness, mm	50	80					
TENAX W PIR T1 , Thickness, mm			100	120	150	175	200
Weight of calculation area, kg/m ²	10.80	12.10	12.80	13.70	14.90	15.90	16.90
Reaction to fire (class, EN 13501-1)	B-s1, d0						
Fire resistance (class, EN 13501-2)	NPD	NPD	EL15	EL30	EL30	EL30	EL30
Thermal transmittance (U-value), W/m ² ·K	0.43	0.26	0.21	0.17	0.14	0.12	0.10

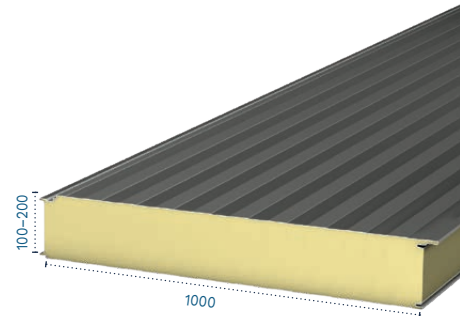
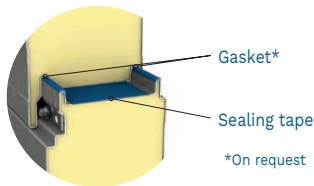
Tenax W PUR S/T – polyurethane foam sandwich panels with standard (S) or thermo-lock (T) joint

Panel width/cover width, mm	1216/1200						
Length, mm	2000–13500						
TENAX W PUR S1 , Thickness, mm	50	80					
TENAX W PUR T1 , Thickness, mm			100	120	150	175	200
Weight of calculation area, kg/m ²	10.70	11.90	12.60	13.40	14.60	15.60	16.50
Thermal transmittance (U-value), W/m ² ·K	0.47	0.28	0.23	0.19	0.15	0.13	0.11

PROFILE OF THE STEEL FACINGS: **V1 / V5 / RIB / MESA / MICRO**

TENAX W PIR H POLYISOCYANURATE FOAM

TENAX W PUR H POLYURETHANE FOAM



Tenax W PIR H – polyisocyanurate foam sandwich panels with hidden joint

Panel width/cover width, mm	1050/1000			
Length, mm	2000–13500 (step 10 mm)			
Thickness, mm	100	120	150	200
Weight of calculation area, kg/m ²	13.10	14.10	15.30	17.40
Reaction to fire (class, EN 13501-1)	B-s1, d0			
Fire resistance (class, EN 13501-2)	NPD	EL30	EL30	EL30
Thermal transmittance (U-value), W/m ² ·K	0.22	0.18	0.14	0.11

Tenax W PUR H – polyurethane foam sandwich panels with hidden joint

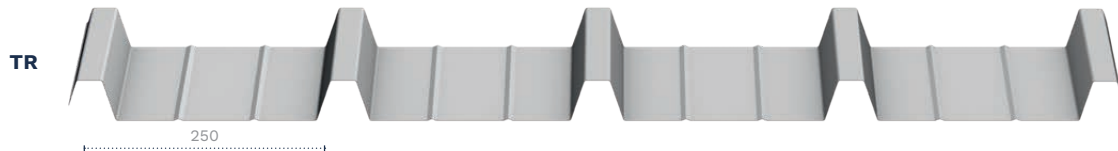
Panel width/cover width, mm	1050/1000			
Length, mm	2000–13500			
Thickness, mm	100	120	150	200
Weight of calculation area, kg/m ²	13.10	13.90	15.00	17.00
Thermal transmittance (U-value), W/m ² ·K	0.24	0.19	0.16	0.12

PROFILE OF THE STEEL FACINGS: **V1 / V4 / RIB / MESA / MICRO**

SANDWICH PANELS

AS A LOAD BEARING ROOF SOLUTION

TENAX PANEL sandwich roof elements are designed for multi-span roof structures with a minimum slope of 5°. Two thermal insulation cores are available and a variety of profile options for steel facings. For more convenient installation of long spans Tenax Panel offers roof panels with OVERLAP. A prefabricated cut in PIR or MW insulation, which saves time and resources for installation.

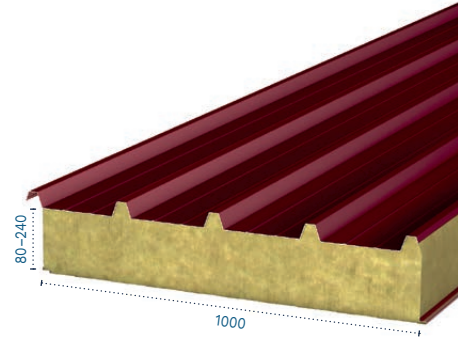
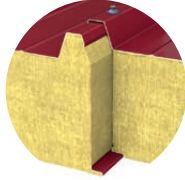


STEEL FACING PROFILES FOR INTERNAL SURFACE



TRAPEZE PROFILED ROOF SANDWICH PANELS

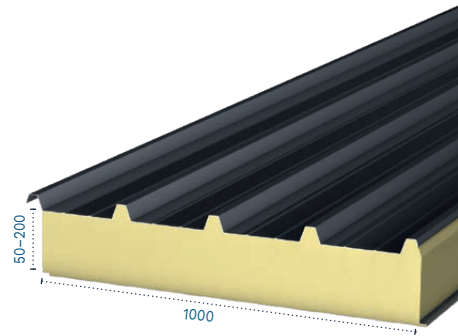
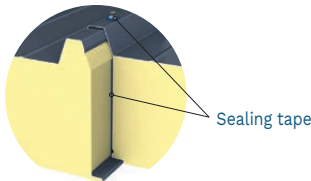
TENAX TR MW S MINERAL WOOL



TENAX TR MW S – mineral wool sandwich panels with standard joint							
Panel width/cover width, mm	1065/1000						
Length, mm	2000–13500 (step 10 mm)						
Height of profile, mm	40						
Pitch of profile, mm	250						
Thickness, mm	80	100	120	150	175	200	240
Weight of calculation area, kg/m ²	19.5	21.7	23.9	27.2	29.9	33.0	37.1
External fire performance	$B_{ROOF(t1,t2,t3)}$						
Fire resistance (class, EN 13501-2)	NPD	NPD	NPD	REI90	REI90	REI90	REI90
Thermal transmittance (U-value), W/m ² ·K	0.49	0.40	0.33	0.27	0.23	0.20	0.17

TENAX TR PIR S POLYISOCYANURATE FOAM

TENAX TR PUR S POLYURETHANE FOAM

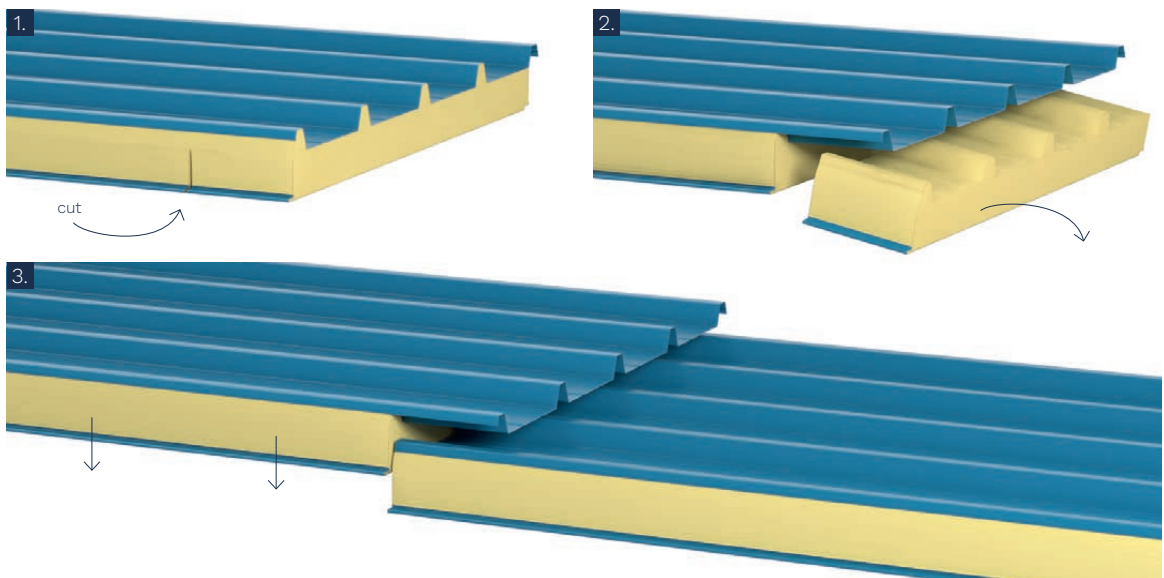


Tenax TR PIR S – polyisocyanurate foam sandwich panels with standard joint							
Panel width/cover width, mm	1065/1000						
Length, mm	2000–15000 (step 10 mm)						
Height of profile, mm	40						
Pitch of profile, mm	250						
Thickness, mm	50	80	100	120	150	200	
Weight of calculation area, kg/m ²	11.90	13.20	14.00	14.90	16.10	18.20	
External fire performance	$B_{ROOF(t)}$						
Fire resistance (class, EN 13501-2)	NPD	NPD	NPD	NPD	REI30	REI30	
Thermal transmittance (U-value), W/m ² ·K	0.40	0.25	0.20	0.17	0.14	0.10	

Tenax TR PUR S – polyurethane foam sandwich panels with standard joint							
Panel width/cover width, mm	1065/1000						
Length, mm	2000–13500 (step 10 mm)						
Height of profile, mm	40						
Pitch of profile, mm	250						
Thickness, mm	50	80	100	120	150	200	
Weight of calculation area, kg/m ²	11.80	12.90	13.70	14.50	15.70	17.60	
Thermal transmittance (U-value), W/m ² ·K	0.43	0.28	0.22	0.19	0.15	0.11	

ADDITIONAL OPTIONS

For more convenient installation of long spans, we offer roof panels with OVERLAP – a prefabricated cut in PIR or MW insulation which allows to save time and resources on installation. Roof panels with overlap are available for both mineral wool and PIR elements.

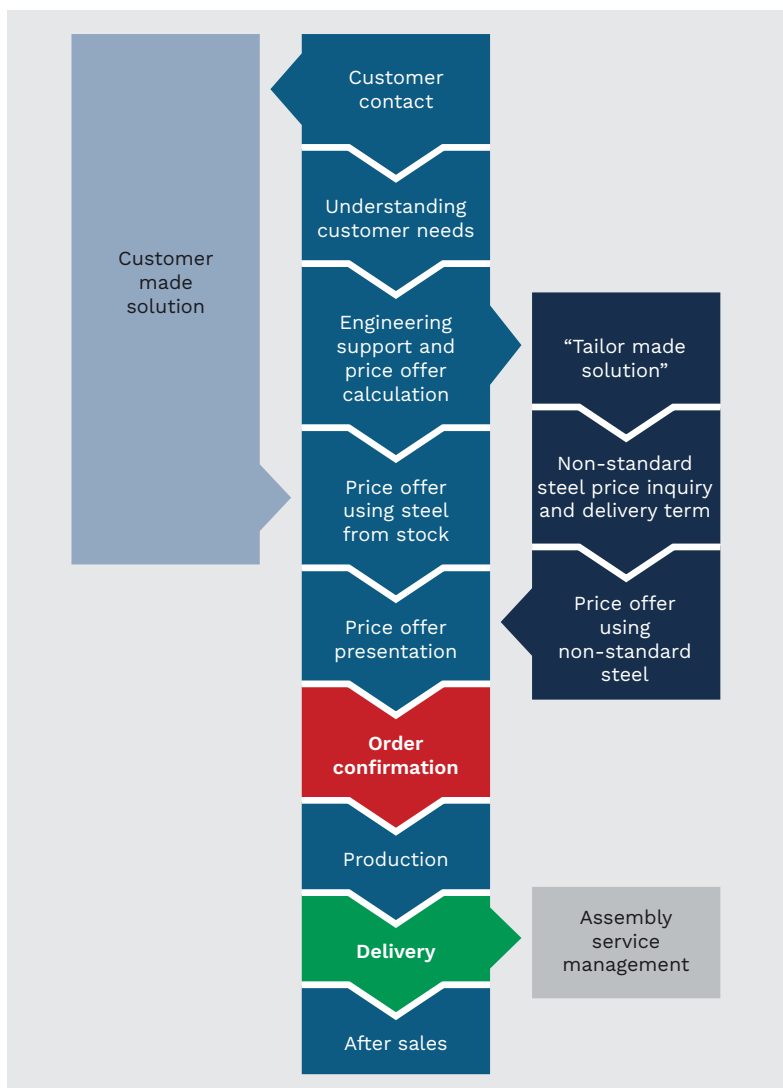


AUXILIARY MATERIALS



CUSTOMER JOURNEY

Customer's needs tend to be different – from a specific quantity of sandwich panels (cutting list) with standard coatings and colors to complex offers with nonstandard materials which require engineering solutions. Here is how your journey with Tenax Group starts:



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Core value for companies of TENAX GROUP from an early start – to be reliable and stable partner to employees, customers, and suppliers continuously ensuring compliance to highest quality standards and regional requirements in all activity fields of the group.



INCREASE
ENERGY
EFFICIENCY



CONTINUOUS
DEVELOPMENT



ENVIRONMENTAL
QUALITY
ENHANCEMENT



HIGH QUALITY
STANDARDS



TENAXPANEL

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