

**WE BUILD A
SUSTAINABLE
FUTURE**

WALLS
EFFICIENCY

ACOUSTICS
ASSANBOARD
EPCM

QUALITY

HIGH PERFORMANCE
GLOBAL ENERGY EFFICIENCY

DESIGN

AESTHETICS

WATER RESISTANCE
SOUND INSULATION
CORROSION RESISTANCE

ENVIRONMENT

BUILD RIGHT

GLOBAL ENERGY EFFICIENCY
HIGH PERFORMANCE INSULATION

INNOVATION

REI180 GUARANTEE

ASSANPU HIGH STANDARD

WALL PANELS ENGINEERING

LOW CARBON

ROCKWOOL

ROOF PANELS

CLEAN ENERGY FOR THE FUTURE

SUSTAINABILITY

POLYCARBONATE

ASSANWOOL

INSTALLATION SUPPORT



About us

Assan Panel, the leading organization in the sandwich panel industry, initiated its manufacturing operations in 1990 with its first factory in Tuzla, Istanbul which had a production capacity of 4 million m² per year. Having continued to invest in to increase its production capacity over the years, Assan Panel invested in its Iskenderun plant in 2004 with a manufacturing capacity of 3 million m²/year, Balikesir plant in 2009 with a manufacturing capacity of 3 million m²/year, and Jordan plant in 2012 with a manufacturing capacity of 4.5 million m²/year, respectively. In 2015, accomplishing its investment in the second production line in Tuzla, Istanbul plant with a capacity of 3.5 million m²/year, it reached a total production capacity of 18 million m²/year. In 2021, realizing its first investment in Turkic Republics, it has initiated its operations in the Azerbaijan plant in cooperation with STP (Sumgait Technologies Park).

A key pioneer in the industry, Assan Panel contributes to the construction of sustainable and environmentally friendly buildings, producing sandwich panels for cold room, roof, and wall applications ensuring fire safety provided by the PIR and mineral wool filling, as well as other products including panels with polyurethane filling, ready-made panels for solar system installation, project-specific custom-made accessories, polycarbonate skylights, fasteners consisting of a wide range of screws, and construction chemicals consisting of sealing and filling materials. In addition, Assan Panel offers application services of superior quality in collaboration with its domestic and international business partners and thanks to its high-quality, safe, innovative, and fire-resistant product range.

Awarded FM certificate for no height restriction in buildings by FM Approvals in 2015, and holder of many other international certificates, Assan Panel is the groundbreaking pioneer in the industry and the leading manufacturer in Turkey. Playing an active role in the global market, Assan Panel is an overall solution partner for industrial buildings by exporting to 85 countries around the world under the brands it incorporated which are AssanPU, Assan Demir, AssanWool and AssanBoard.



The technicians using Assan Panel products must be trained, experienced and qualified, and competent experts adhering to the technical documentation of Assan Panel during the application of the product. The technicians must use adequate personal protective equipment during using this product and must take work safety precautions. This technical documentation is prepared according to the current product specifications at the date of publication. Assan Panel reserves its right to modify the specifications of the related products. Users must always consult the current publication of the Domestic Product Information Leaflet of the related product that could be obtained by applying Assan Panel.

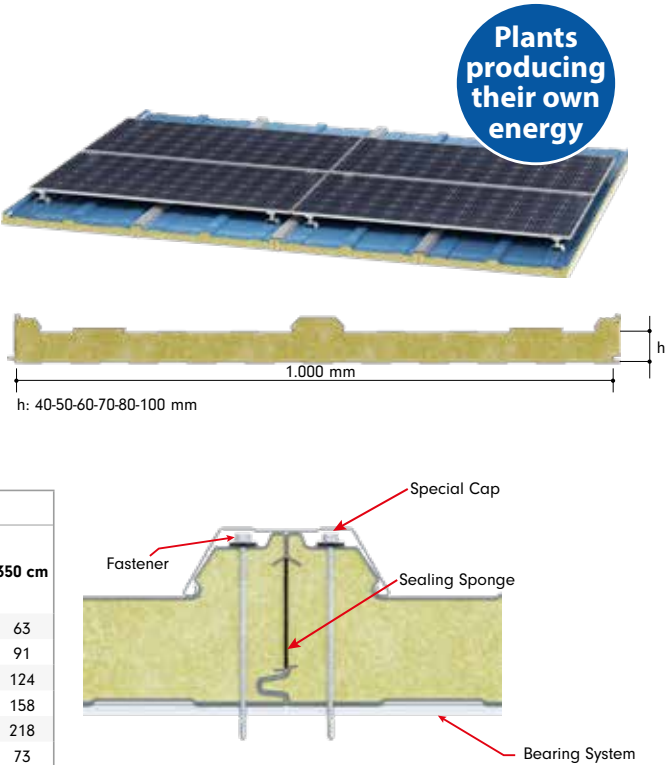
ROOF PANELS

Roofs are coating coverings used at buildings for active protection against natural phenomena such as snowing, raining, and storms. They differ in order to match the architectural aesthetics of the building, and according to the geographical conditions. Roofs vary according to their bearing systems, slopes, and coating materials. Roof cladding materials must ensure thermal, water, and sound insulation; be economical, aesthetic, and of good quality while performing its functions of safely protecting the building against external atmospheric conditions. The most preferred coating materials in roof panels are sandwich panels consisting of internal and external metal sheets and an insulating core. Lately in Turkey, sandwich panels have been used in many structures, including construction site buildings, social and industrial buildings, plants, and warehouses, as a cladding material for roofs, walls, internal partitions, or cold stores. In addition to such advantages as fast production, easy installation, high bearing capacity, and lightweight construction, sandwich panels have become prominent in architectural designs with highly efficient insulation properties.

Assan Panel produces sandwich panels for colorful, durable, aesthetic, economical, and environmentally friendly roof cladding solutions that satisfy the needs of all kinds of architectural projects. The most preferred brand in the sandwich panel market and aiming to add value in Turkey, Assan Panel can produce sandwich panels with metal surfaces in different forms and rich color options using filling materials (PUR, PIR, Mineral Wool, etc.) in different thicknesses and specifications.

Solar Capped Panel

It is the first, only, and real solar capped sandwich panel produced in Turkey. The greatest advantage of the solar capped panel is that the cap profile protects the fasteners on the panel joints against external factors, which enables it to prevent water leakage problems that can be experienced over time either on the panel joints or the fasteners. Its special pitch structure makes it compatible with both 60-cell and 72-cell Photovoltaic Modules. Thanks to its special clamp system, Solar Capped Panel ensures a high water resistance performance and a high corrosion resistance by enabling a fast and easy solar panel installation without drilling the sandwich panel surface. Also, it offers the feasibility of installation at low gradients and cost advantage for steel construction.



PPGS	PPGS	Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0.5	0.4	30	281	225	181	148	123	103	86	75	63
0.5	0.4	40	395	317	258	208	176	144	124	105	91
0.5	0.4	50	547	437	354	290	243	200	171	146	124
0.5	0.4	60	699	558	452	366	312	256	217	181	158
0.5	0.4	80	951	759	616	503	423	351	298	251	218
0.5	0.5	30	291	237	195	160	137	114	97	84	73
0.5	0.5	40	390	316	260	214	181	151	129	112	99
0.5	0.5	50	521	423	348	287	243	204	174	149	131
0.5	0.5	60	648	528	432	356	301	251	213	184	160
0.5	0.5	80	951	759	616	503	423	351	298	251	218
0.5	0.5	100	1043	835	678	553	465	386	328	276	240

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

- Useful Width:** 1.000 mm
- Place of Use:** Roof Claddings
- External Sheet Type:** Prepainted Galvanized Steel, Prepainted Aluminum
- Filling Material:** Polyurethane (PUR) / Polyisocyanurate (PIR)
- Internal Sheet Type:** Prepainted Galvanized Steel, Prepainted Aluminum
- Manufacturing Location:** Tuzla

ROOF PANELS

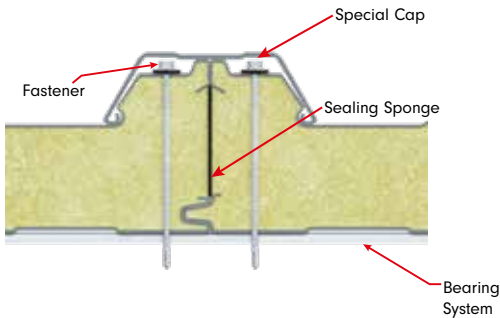
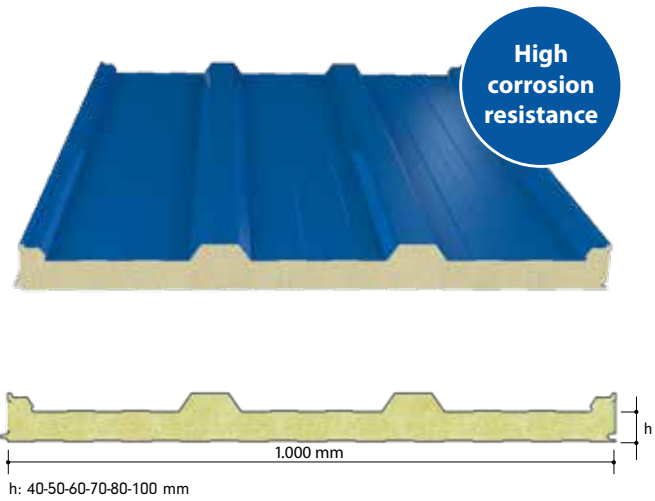
R4 Capped

R4 Capped is a four-pitch capped sandwich panel. The greatest advantage of the capped panel is that the cap profile protects the fasteners on the panel joints against external factors, which enables it to prevent water leakage problems that can be experienced over time either on the panel joints or the fasteners. Also, the ability to manufacture the cap profiles in different colors by preference provides an additional advantage for appearance. In addition, using capped panels it is possible to clad roofs with a 5% gradient, and the cap profile's ability to cover the connecting components enables capped panel to be used as a wall panel.

PPGS		Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,4	40	395	317	258	208	176	144	124	105	91
0,5	0,4	50	547	437	354	290	243	200	171	146	124
0,5	0,4	60	699	558	452	366	312	256	217	181	158
0,5	0,4	70	865	690	560	457	384	319	271	228	198
0,5	0,4	80	951	759	616	503	423	351	298	251	218
0,5	0,4	100	1177	939	762	627	520	437	372	316	274

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material : Polyurethane (PUR) / Polyisocyanurate (PIR)
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla



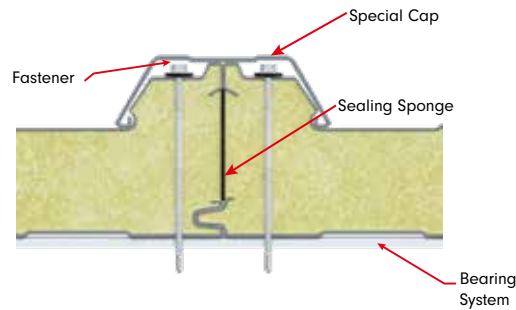
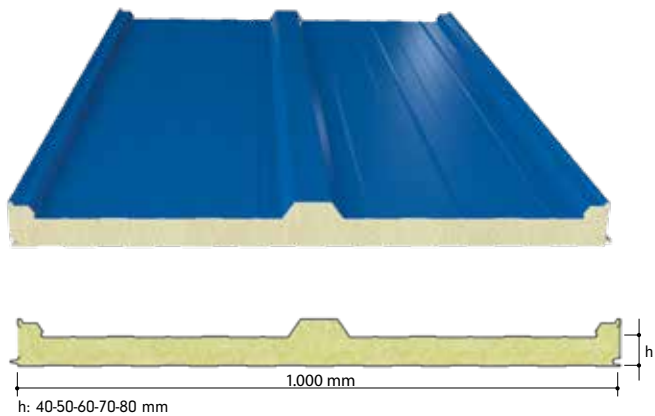
R3 Capped

R3 Capped is a four-pitch capped sandwich panel. The greatest advantage of the capped panel is that the cap profile protects the fasteners on the panel joints against external factors, which enables it to prevent water leakage problems that can be experienced over time either on the panel joints or the fasteners. Also, the ability to manufacture the cap profiles in different colors by preference provides an additional advantage for appearance. In addition, using capped panels it is possible to clad roofs with a 5% gradient, and the cap profile's ability to cover the connecting components enables capped panel to be used as a wall panel.

PPGS		Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,4	40	353	283	230	186	157	129	111	94	81
0,5	0,4	50	488	390	316	259	217	179	153	130	111
0,5	0,4	60	624	498	404	327	279	229	194	162	141
0,5	0,4	70	772	616	500	408	343	285	242	204	177
0,5	0,4	80	849	678	550	449	377	314	266	224	195

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material : Polyurethane (PUR) / Polyisocyanurate (PIR)
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Iskenderun



ROOF PANELS

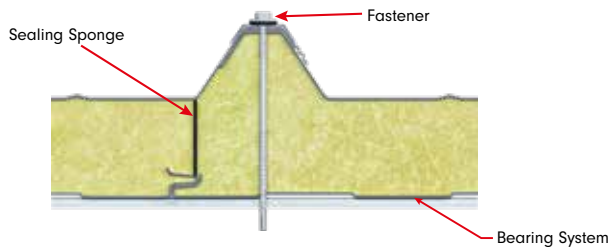
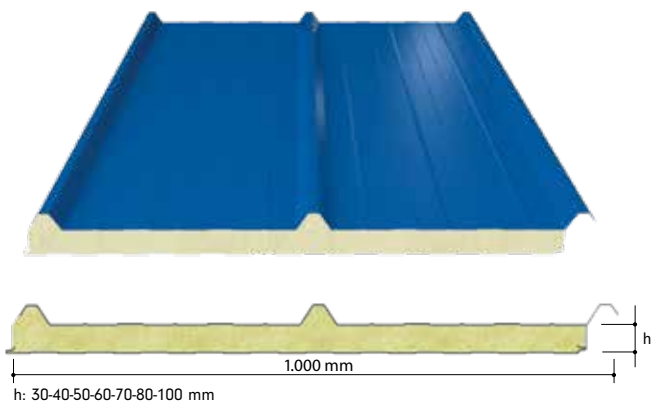
N3

N3 is a three-pitch laterally connected sandwich panel and can be used in roofs with a 7% gradient. Its greatest advantage is the fast installation enabled by the lateral panel connection.

PPGS		Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,4	30	201	161	130	106	88	74	62	54	45
0,5	0,4	40	282	226	184	149	126	103	89	75	65
0,5	0,4	50	390	312	253	207	174	143	122	104	89
0,5	0,4	60	499	398	323	262	223	183	155	130	113
0,5	0,4	70	529	422	343	277	237	194	165	137	120
0,5	0,4	80	679	542	440	359	302	251	213	180	156
0,5	0,4	100	747	596	484	395	332	276	234	197	171

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material : Polyurethane (PUR) / Polyisocyanurate (PIR)
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla, Iskenderun, Balikesir



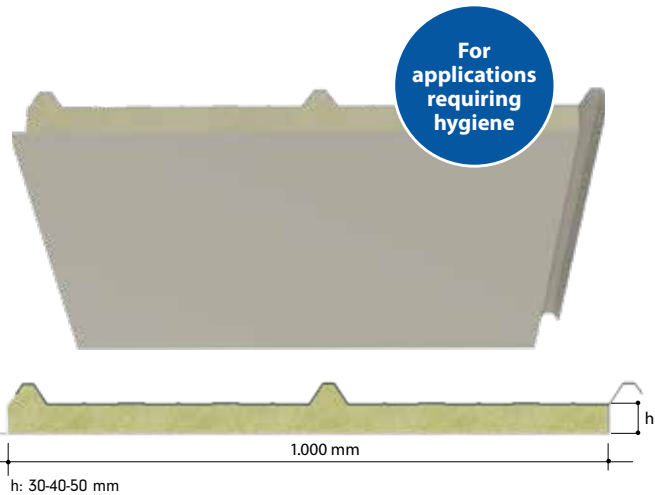
N3 GRP

N3 GRP is a three-pitch laterally connected sandwich panel manufactured as prepainted galvanized steel on the top and GRP on the bottom surface. It can be used in roofs with a 10% gradient. GRP panels are preferred for the facilities, especially poultry farms, where hygienic requirements are prioritized. Also, it is designed for plants with a risk of corrosion and the projects where optimum solution is the top priority and mechanical performance is not a concern. To facilitate the installation of the product, tape application can be carried out to the long left GRP part.

PPGS		CTP	Multi Span							
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	100 cm	125 cm	150 cm	175 cm	200 cm	225 cm	250 cm	
0,5	0,7	30	476	328	234	194	157	117	88	
0,5	0,7	40	560	386	275	228	185	138	104	
0,5	0,7	50	596	421	320	257	205	154	119	

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material : Polyurethane (PUR)
Internal Sheet Type : CTP
Manufacturing Location : Iskenderun



ROOF PANELS

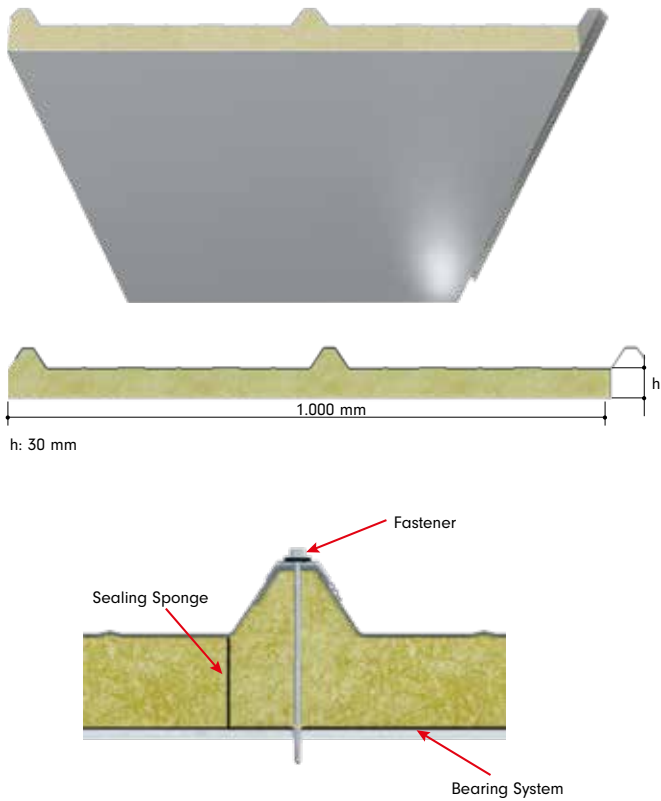
N3 Aluminum Folio

N3 Aluminum Folio is a three-rib laterally connected sandwich panel. Aluminum folio on the non-pitch part ensures high corrosion resistance. It can be used in roofs with a 10% gradient. Its greatest advantage is the fast installation enabled by the lateral panel connection.

PPGS	Aluminum Folio	Span					
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR (mm)	100 cm	125 cm	150 cm	175 cm	200 cm
0,5	0,1	30	235	153	106	78	59

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width	: 1.000 mm
Place of Use	: Roof Claddings
External Sheet Type	: Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material	: Polyurethane (PUR)
Internal Sheet Type	: Aluminum Folio
Manufacturing Location	: Iskenderun



ROOF PANELS

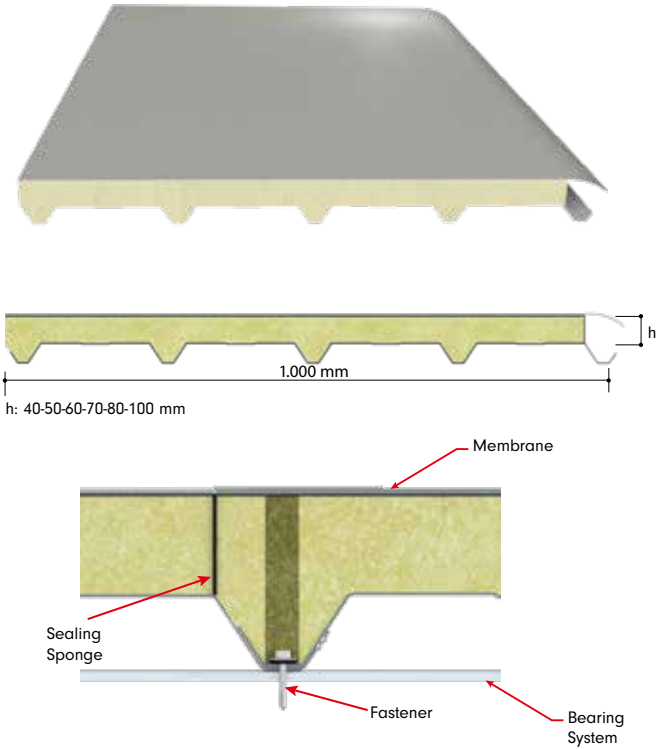
N5M

N5M is used to clad terraced roofs. The bottom surface of the panel is manufactured as metal (prepainted galvanized steel), whereas the top surface either with PVC membrane or TPO membrane. This eliminates the necessity for water insulation application upon N5M installation, thus saves time and labor. The panels are to be connected to the bearing system with self-tapping screws. After that, the lug over the other panel is to be agglutinated by applying the lamination method.

PVC External Membrane Thickness (mm)	PPGS Internal Sheet Thickness (mm)	Span				
		150 cm	200 cm	250 cm	300 cm	325 cm
1,2	0,5	232	126	80	56	-
1,2	0,6	272	158	100	63	-
1,2	0,7	328	188	121	84	59
1,2	0,8	385	220	140	98	72

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width	: 1.000 mm
Place of Use	: Roof Claddings
External Sheet Type	: Prepainted Galvanized Steel, Prepainted Aluminum
Membrane Type	: Polyurethane (PUR) / Polyisocyanurate (PIR)
Filling Material	: TPO/PVC
Manufacturing Location	: Tuzla, Balikesir



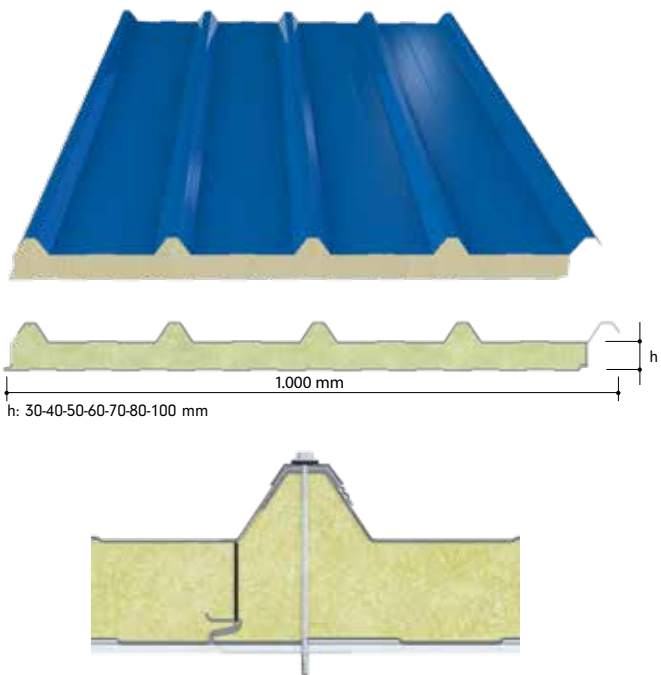
N5

It is a five-pitch laterally connected sandwich panel that can be used in roofs with a 7% gradient. While its utmost advantage is the fast installation thanks to the lateral connection, the five-pitch form enables wide clearances to be spanned safely.

PPGS	PPGS	Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,4	30	269	215	173	141	118	98	82	72	60
0,5	0,4	40	378	303	246	199	168	138	119	101	87
0,5	0,4	50	522	417	338	277	232	192	164	139	119
0,5	0,4	60	668	533	432	350	299	245	208	173	151
0,5	0,4	70	826	659	535	437	367	305	259	218	189
0,5	0,4	80	950	758	615	502	422	351	298	251	218
0,5	0,4	100	1045	834	677	552	464	386	328	276	240

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width	: 1.000 mm
Place of Use	: Roof Claddings
External Sheet Type	: Prepainted Galvanized Steel, Prepainted Aluminum
Filling Material	: Polyurethane (PUR) / Polyisocyanurate (PIR)
Internal Sheet Type	: Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location	: Tuzla, Iskenderun, Balikesir



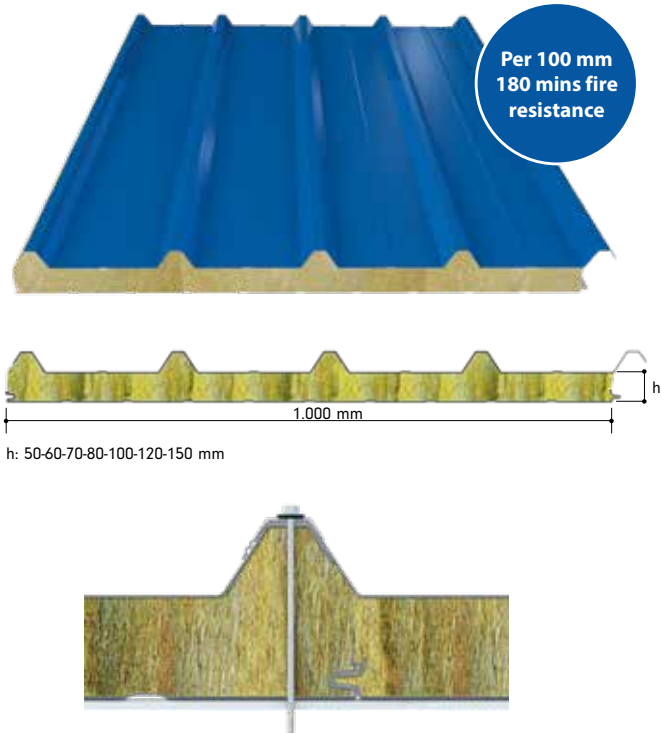
N5T

N5T enables wide clearances to be spanned safely with its five-pitch form and is used safely in structures with high fire risk and buildings requiring maximum fire resistance. It can be used in roofs with a 10% gradient. Thanks to its lateral connected panel connection, it offers a fast installation advantage. The mineral wool filling material offers high fire insulation as well as advanced acoustic performance.

PPGS	PPGS	Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Rockwool (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,5	50	193	167	145	128	113	102	93	85	77
0,5	0,5	60	233	203	176	155	138	124	113	103	95
0,5	0,5	70	245	213	184	163	145	130	118	108	99
0,5	0,5	80	314	273	237	209	186	168	153	140	129
0,5	0,5	100	394	343	298	263	235	212	193	176	163
0,5	0,5	120	434	377	328	289	258	234	212	194	179
0,5	0,5	130	451	392	341	301	269	243	220	202	186
0,5	0,5	150	469	408	354	313	279	253	229	210	194

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width	: 1.000 mm
Place of Use	: Roof Claddings
External Sheet Type	: Prepainted Galvanized Steel
Internal Sheet Type	: Mineral Wool
Filling Material	: Prepainted Galvanized Steel
Manufacturing Location	: Balikesir



ROOF PANELS

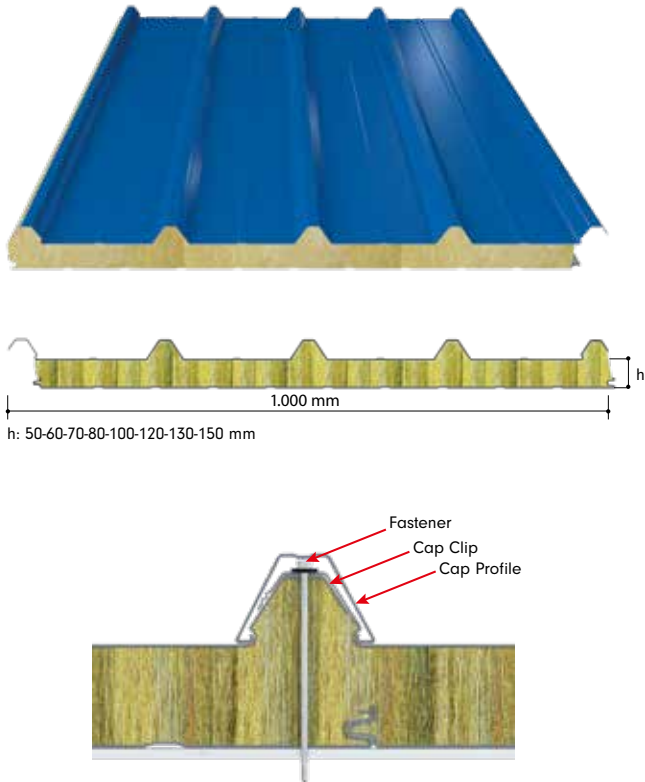
R5T Capped

R5T Capped enables wide clearances to be spanned safely with its five pitch form and is used safely in structures with high fire risk and buildings requiring maximum fire resistance. The greatest advantage of the R5 capped panel is that the cap profile protects the fasteners on the panel joints against external factors, which enables it to prevent water leakage problems that can be experienced over time either on the panel joints or the fastener. The panels can be assembled with side overlaps without using the cap profiles or the caps can be attached later according to preference. Also, the ability to customize cap profiles in different colors on request preference provides an advantage for appearance. In addition, using R5T capped panels it is possible to clad roofs with a 7% gradient, and the cap profile's ability to cover the connecting components enables capped panel to be used as a wall panel. The mineral wool filling material offers high fire insulation as well as advanced acoustic performance.

PPGS	PPGS		Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Mineral Wool (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm	
0,5	0,5	50	193	167	145	128	113	102	93	85	77	
0,5	0,5	60	233	203	176	155	138	124	113	103	95	
0,5	0,5	70	245	213	184	163	145	130	118	108	99	
0,5	0,5	80	314	273	237	209	186	168	153	140	129	
0,5	0,5	100	394	343	298	263	235	212	193	176	163	
0,5	0,5	120	434	377	328	289	258	234	212	194	179	
0,5	0,5	130	451	392	341	301	269	243	220	202	186	
0,5	0,5	150	469	408	354	313	279	253	229	210	194	

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Rockwool
Filling Material : Prepainted Galvanized Sheet
Manufacturing Location : Balıkesir

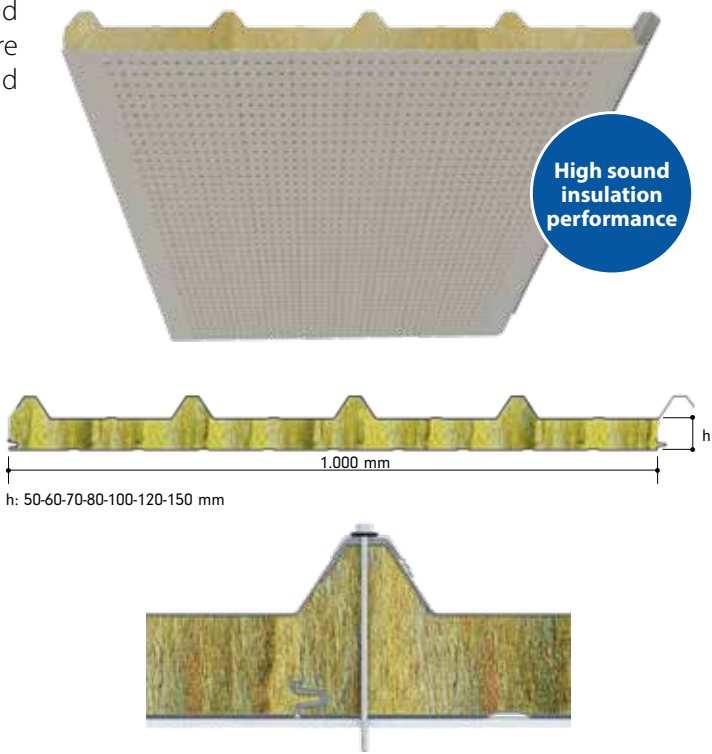


ROOF PANELS

N5T Acoustic

N5T Acoustic is of A-class sound absorption and high sound insulation performances. Moreover, its mineral wool inner core enables it to be used safely in buildings with a high risk of fire and buildings requiring maximum fire resistance.

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Mineral Wool
Filling Material : Prepainted Galvanized Steel
Manufacturing Location : Balıkesir



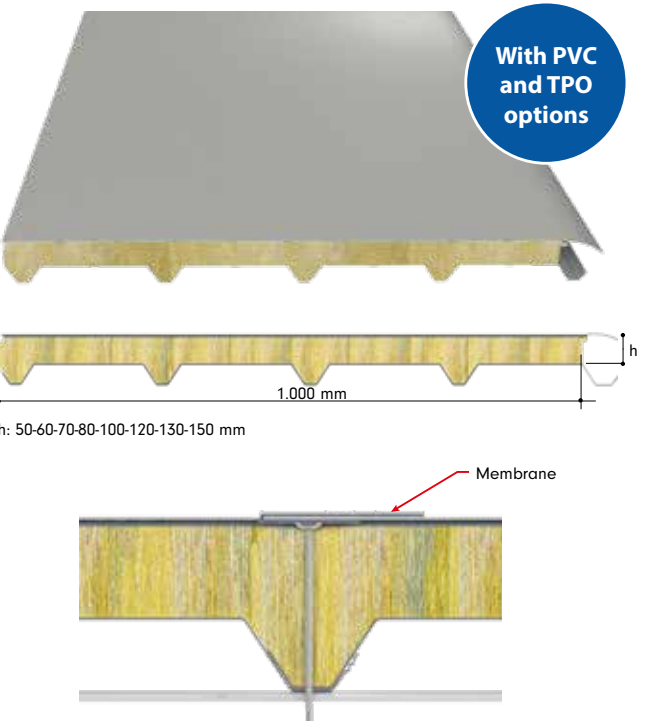
N5TM

N5TM is a roof cladding material with a high fire resistance, ensuring the required water and heat insulation in the roofs with a maximum 1.5% gradient. Compared to the on-site applications, it offers a much faster, easier, and more economical installation. In N5T membrane roof panel, the membrane is directly agglutinated to the metal instead of the filling material. In addition, it has a high compression strength. The membrane also increases the bearing capacity, other than creating a visual advantage by preventing marks, foldings, and any other changes of shape that may occur on the surface. PVC and TPO are the membrane options available.

PPGS	PPGS		Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Mineral Wool (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm	
0,5	0,35	50	187	162	141	124	110	99	90	82	75	
0,5	0,35	60	226	197	171	150	134	120	110	100	92	
0,5	0,35	70	238	207	178	158	141	126	114	105	96	
0,5	0,35	80	305	265	230	203	180	163	148	136	125	
0,5	0,35	100	382	333	289	255	228	206	187	171	158	
0,5	0,35	120	421	366	318	280	250	227	206	188	174	
0,5	0,35	130	437	380	331	292	261	236	213	196	180	
0,5	0,35	150	455	394	343	304	271	245	222	204	188	

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof Claddings
External Sheet Type : Prepainted Galvanized Steel
Filling Material : Mineral Wool
Internal Sheet : Prepainted Galvanized Steel
Membrane Type : TPO/PVC
Manufacturing Location : Balıkesir



WALL PANELS

Assan Panel sandwich wall panels provide thermal, water, and sound insulation in line with the insulation structure as well as ensure fire safety in the buildings making life easier and more comfortable while meeting the requirements of the industrial sector. Apart from being aesthetic and of good quality, it makes the building safe by protecting it against weather conditions. Lately in Turkey, sandwich wall panels have been used in many structures, including social and industrial buildings, plants, warehouses, and malls, either as a facade cladding material or as a cladding material for walls, internal partitions, or cold stores.

Assan Panel sandwich wall panels are designed in secret and external screw forms to satisfy any kind of insulation need.

Galvanized sheets and aluminum sheets are the available form options for sandwich wall panels. Dyed metallic sheet coils produced following the ECCA (European Coil Coating) standards are given the final form on the sandwich panel line. Depending on the intended use of insulation material and the need for insulation, insulation materials of panels are Polyurethane (PUR), Polyisocyanate (PIR), and Mineral wool. These are the most preferred filling materials for sandwich wall panels.



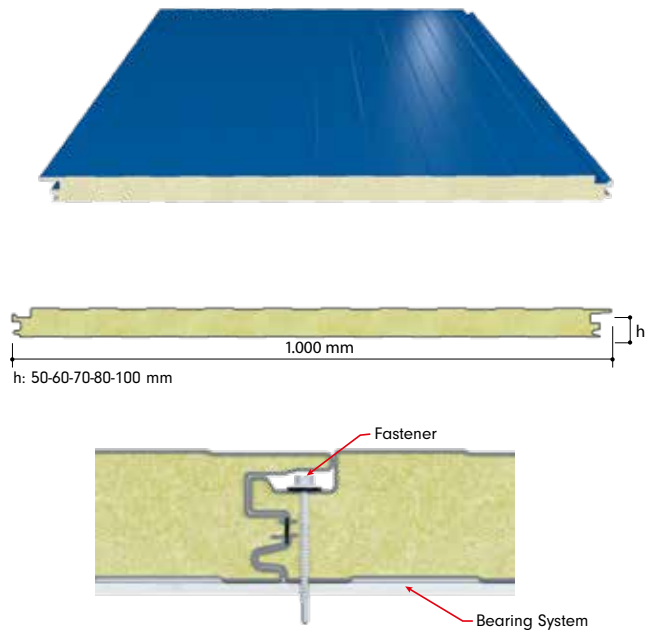
W

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers

PPGS	PPGS	Multi Span				
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	100 cm	150 cm	200 cm	250 cm
0,5	0,4	50	302	215	149	121
0,5	0,4	60	337	263	179	134
0,5	0,4	70	349	272	185	139
0,5	0,4	80	400	320	245	145
0,5	0,4	100	475	371	252	189

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Polyurethane (PUR) / Polyisocyanurate (PIR)
Filling Material : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla, Iskenderun



WALL PANELS

W Sinus

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. The sinus form provides an aesthetic appearance for walls.

PPGS	PPGS	Multi Span			
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	100 cm	150 cm	200 cm
0,5	0,4	40	257	182	124
0,5	0,4	50	302	215	149
0,5	0,4	60	337	263	179
0,5	0,4	70	349	272	185
0,5	0,4	80	400	320	245
0,5	0,4	100	475	371	252

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Polyurethane (PUR) / Polyisocyanurate (PIR)
Filling Material : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla

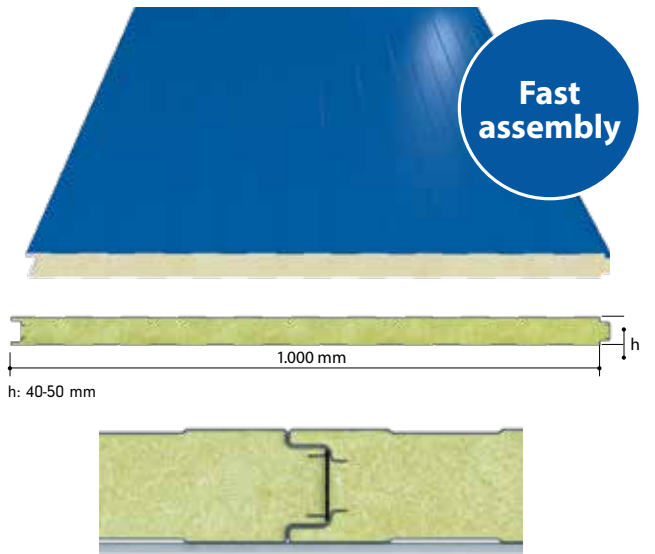
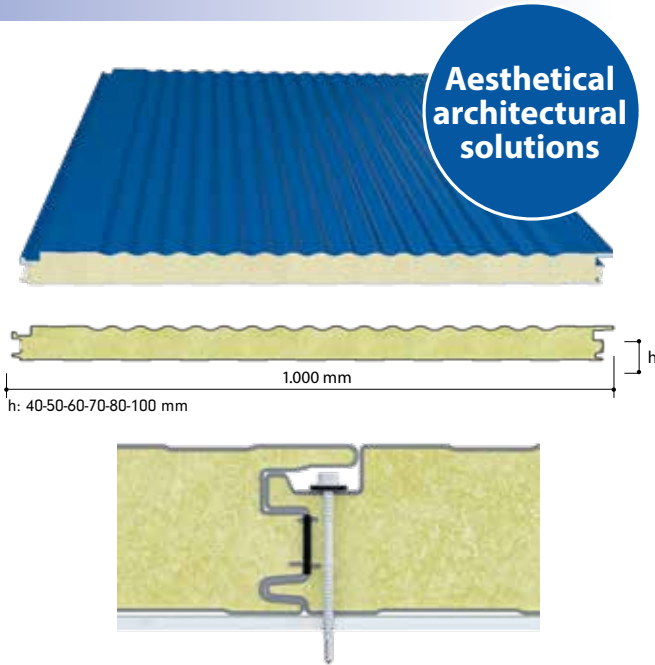
W Prefabricated

In addition to the durable joint ensured by the double-sided tongue-and-groove edges, the fast installation ability makes W Prefabricated panels preferable for prefabricated buildings. They are generally produced in micro pitched form to achieve an aesthetic appearance for walls. The ability to apply either laterally or vertically provides flexibility during installation.

PPGS	PPGS	Multi Span			
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	100 cm	150 cm	200 cm
0,5	0,4	40	257	182	124
0,5	0,4	50	302	215	149

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Polyurethane (PUR) / Polyisocyanurate (PIR)
Filling Material : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla, Iskenderun



WALL PANELS

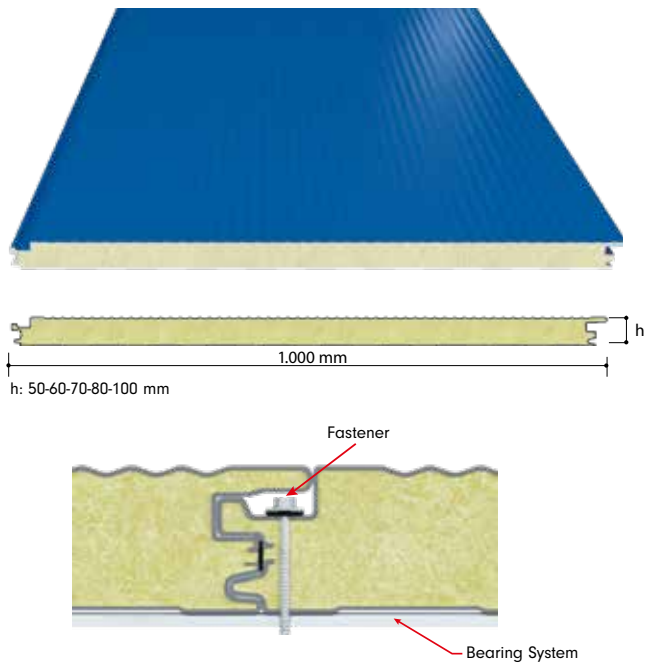
W Micro

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. Generally produced in micro pressed form to achieve an aesthetic appearance for walls.

PPGS	PPGS	Multi Span				
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR-PIR (mm)	100 cm	150 cm	200 cm	250 cm
0,5	0,4	50	302	215	149	121
0,5	0,4	60	337	263	179	134
0,5	0,4	70	349	272	185	139
0,5	0,4	80	400	320	245	145
0,5	0,4	100	475	371	252	189

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Polyurethane (PUR) / Polyisocyanurate (PIR)
Filling Material : Prepainted Galvanized Steel, Prepainted Aluminum
Manufacturing Location : Tuzla, Iskenderun



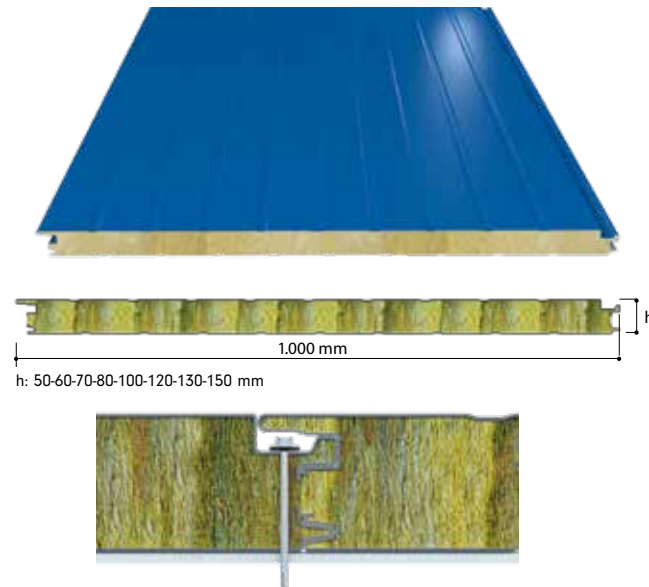
1000 WT

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. Generally produced in micro pressed form to achieve an aesthetic appearance for walls. The rockwool filler provides the best fire resistance performance.

PPGS	PPGS	Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Mineral Wool (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,5	50	152	133	116	101	90	81	73	66	61
0,5	0,5	60	187	162	140	123	110	99	89	82	75
0,5	0,5	70	196	170	147	129	115	104	94	86	79
0,5	0,5	80	251	218	190	167	149	133	122	111	102
0,5	0,5	100	317	275	239	211	188	169	154	141	129
0,5	0,5	120	348	303	263	232	207	186	169	155	142
0,5	0,5	130	366	318	276	243	217	195	178	163	149
0,5	0,5	150	384	334	290	256	228	205	187	171	157

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Mineral Wool
Filling Material : Prepainted Galvanized Steel
Manufacturing Location : Balıkesir



WALL PANELS

WT Micro

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. Generally produced in micro pressed form to achieve an aesthetic appearance for walls. The rockwool filler provides the best fire resistance performance.

PPGS	PPGS	Multi Span									
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Mineral Wool (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm
0,5	0,5	50	152	133	116	101	90	81	73	66	61
0,5	0,5	60	187	162	140	123	110	99	89	82	75
0,5	0,5	70	196	170	147	129	115	104	94	86	79
0,5	0,5	80	251	218	190	167	149	133	122	111	102
0,5	0,5	100	317	275	239	211	188	169	154	141	129
0,5	0,5	120	348	303	263	232	207	186	169	155	142
0,5	0,5	130	366	318	276	243	217	195	178	163	149
0,5	0,5	150	384	334	290	256	228	205	187	171	157

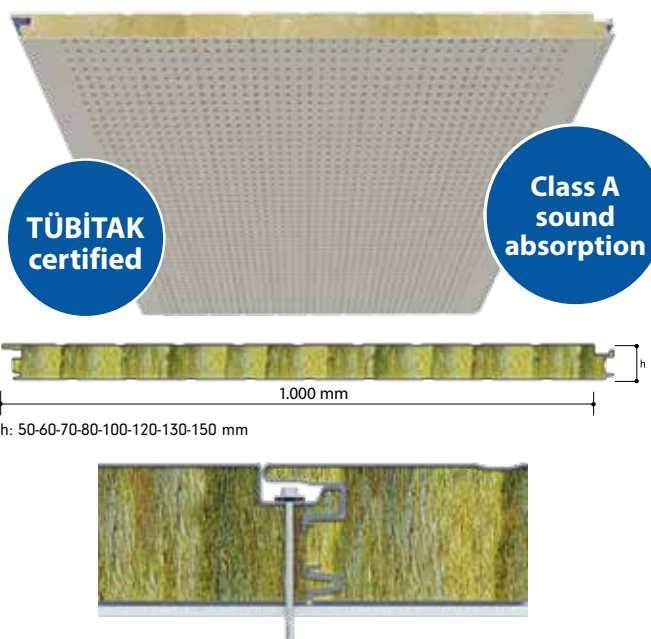
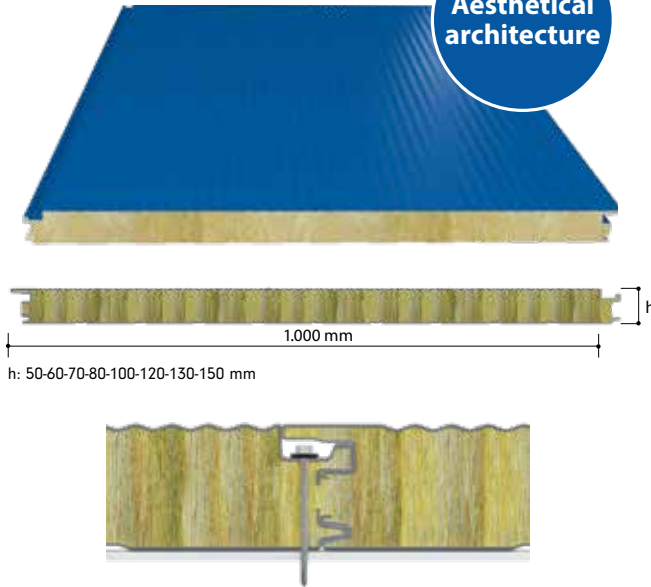
• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Mineral Wool
Filling Material : Prepainted Galvanized Steel
Manufacturing Location : Balıkesir

WT Acoustic

The perforated interior design provides high acoustic performance and class A sound absorption. The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. Generally produced in micro pressed form to achieve an aesthetic appearance for walls.

Useful Width : 1.000 mm
Place of Use : Wall Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Mineral Wool
Filling Material : Prepainted Galvanized Steel
Manufacturing Location : Balıkesir



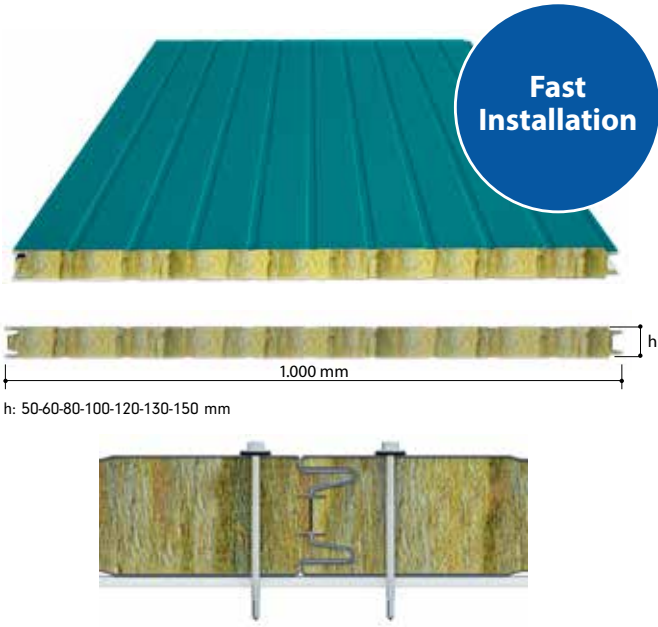
WALL PANELS

1000 WDT

1000 WDT enables wide clearances to be spanned safely with its 5-rib form and is used safely in structures with high fire risk and buildings requiring maximum fire resistance. Also, it offers a high acoustic performance provided by the rockwool filling. They are generally produced in micro pitched form to achieve an aesthetic appearance for walls. It durably joints thanks to the double-sided tongue-and-groove edges. The fast installation ability makes 1000 WDT panels preferable for prefabricated buildings.

PPGS		Multi Span										
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	Rockwool Thickness (mm)	150 cm	175 cm	200 cm	225 cm	250 cm	275 cm	300 cm	325 cm	350 cm	
0,5	0,5	50	152	133	116	101	90	81	73	66	61	
0,5	0,5	60	187	162	140	123	110	99	89	82	75	
0,5	0,5	70	196	170	147	129	115	104	94	86	79	
0,5	0,5	80	251	218	190	167	149	133	122	111	102	
0,5	0,5	100	317	275	239	211	188	169	154	141	129	
0,5	0,5	120	348	303	263	232	207	186	169	155	142	
0,5	0,5	130	366	318	276	243	217	195	178	163	149	
0,5	0,5	150	384	334	290	256	228	205	187	171	157	

- Useful Width : 1.000 mm
- Place of Use : Wall Claddings
- External Sheet Type : Prepainted Galvanized Steel
- Internal Sheet Type : Mineral Wool
- Filling Material : Prepainted Galvanized Steel
- Manufacturing Location : Balıkesir



COLD STORE PANELS

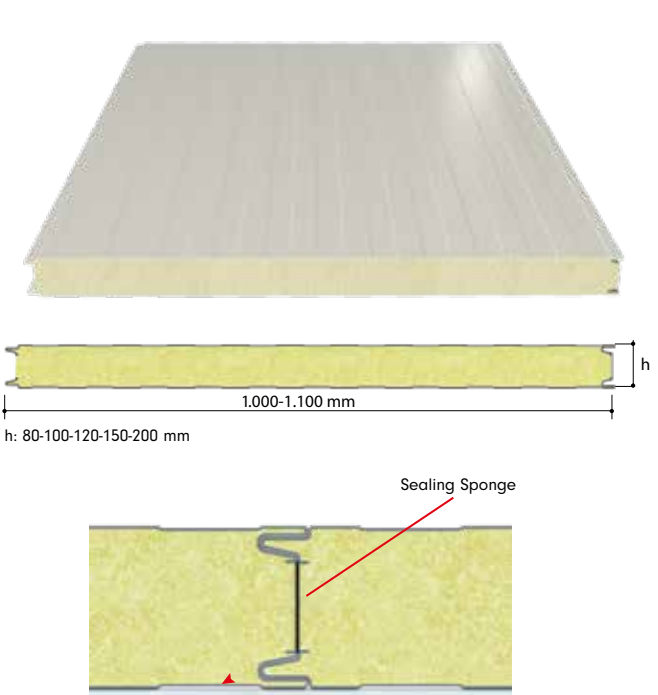
CS

The special paint on the surface of Assan Panel CS enables it to be used in cold stores by providing full protection against bacteria. Also, the durable joint ensured by the double-sided tongue-and-groove edges provides an advantage for thermal insulation. In addition to cold storage cladding and wall cladding, they are also applicable as ceiling cladding.

PUR-PIR (mm)	U CS panel (W/m²K)	Temperature Difference Between Inner and Outer Surfaces (°C)																
		10	15	20	25	30	35	40	45	50	55	60	65	70	80	90		
80	0,2470	2,5	3,7	4,9	6,2	7,4	8,6	9,9									< 10 W/m²	
100	0,1993	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0								< 10 W/m²	
120	0,1670	1,7	2,5	3,3	4,2	5,0	5,8	6,7	7,5	8,3	9,2						< 10 W/m²	
150	0,1343	1,3	2,0	2,7	3,4	4,0	4,7	5,4	6,0	6,7	7,4	8,1	8,7	9,4			< 10 W/m²	
200	0,1013	1,0	1,5	2,0	2,5	3,0	3,5	4,1	4,6	5,1	5,6	6,1	6,6	7,1			8,1	< 10 W/m²

Optimal PUR thickness is determined according to the values of heat flow under 10 W/m².

- Useful Width : 1,000 - 1,100 mm
- Place of Use : Cold Store
- External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
- Internal Sheet Type : Polyurethane (PUR) / Polyisocyanurate (PIR)
- Filling Material : Prepainted Galvanized Steel, Prepainted Aluminum
- Manufacturing Location : Tuzla, Iskenderun



CORRUGATED SHEETS

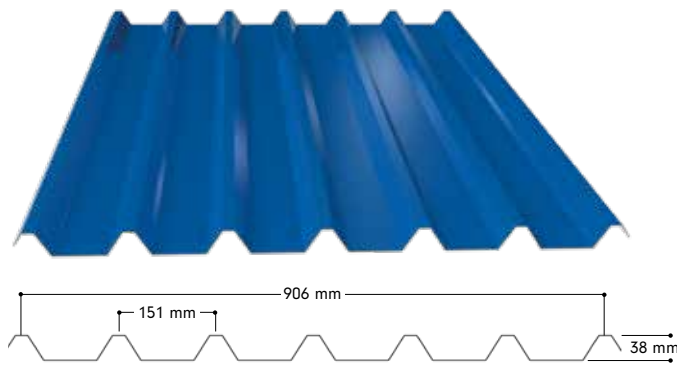
38/151 - 7

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 38/151 form, is 7-pitch, and has 906 mm useful width.

PPGS	Multi Span			
Sheet Thickness (mm)	200 cm	250 cm	300 cm	325 cm
0,5	140	89	62	—
0,6	175	111	70	—
0,7	209	134	93	66
0,8	244	156	109	80

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 906 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



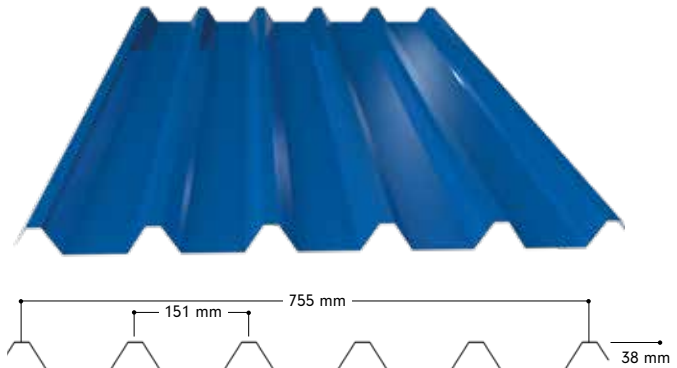
38/151 - 6

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 38/151 form, is 6-pitch, and has 906 mm useful width.

PPGS	Multi Span			
Sheet Thickness (mm)	200 cm	250 cm	300 cm	325 cm
0,5	140	89	62	—
0,6	175	111	70	—
0,7	209	134	93	66
0,8	244	156	109	80

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

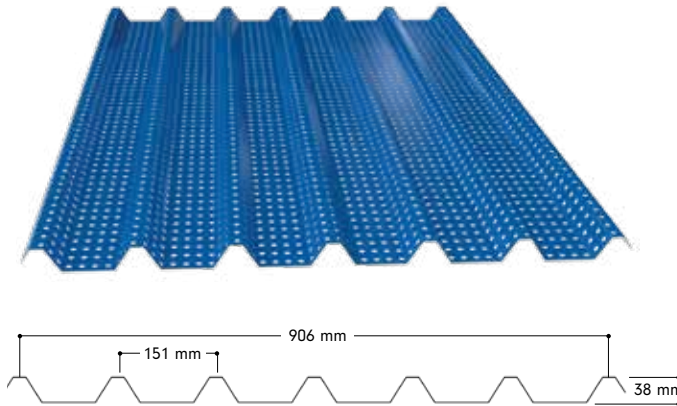
Useful Width : 755 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



38/151 - 7 Acoustic

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 38/151 form. It is also available as a 6-pitch with a 755 mm useful width.

Useful Width : 906 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



CORRUGATED SHEETS

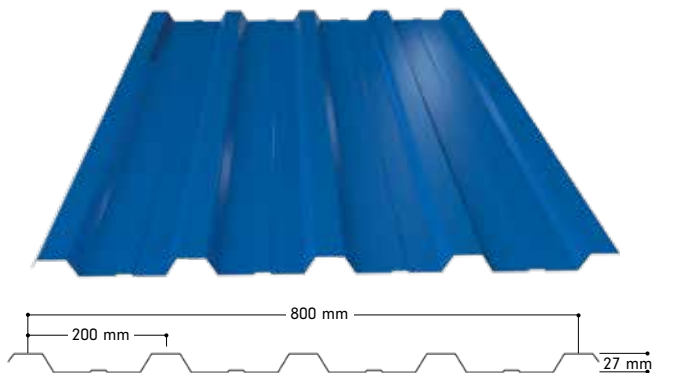
27/200 - 5

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 27/200 form, is 5-pitch, and has 800 mm useful width.

PPGS	Multi Span					
Sheet Thickness (mm)	150 cm	180 cm	280 cm	200 cm	240 cm	280 cm
0,5	237	165	134	110	93	68
0,6	290	201	163	135	113	83
0,7	343	238	193	160	134	98
0,8	396	275	223	184	155	114

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 800 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



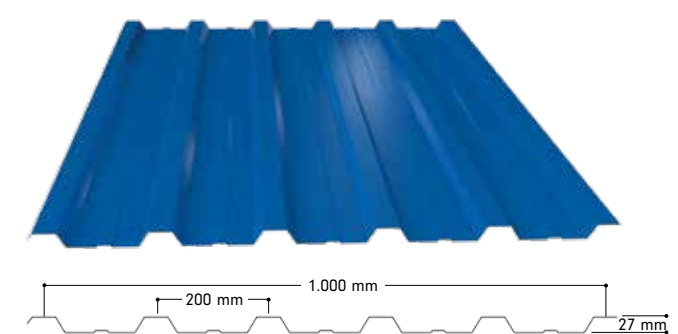
27/200 - 6

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 27/200 form, is 6-pitch, and has 800 mm useful width.

PPGS	Multi Span					
Sheet Thickness (mm)	150 cm	180 cm	280 cm	220 cm	240 cm	280 cm
0,5	237	165	134	110	93	68
0,6	290	201	163	135	113	83
0,7	343	238	193	160	134	98
0,8	396	275	223	184	155	114

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

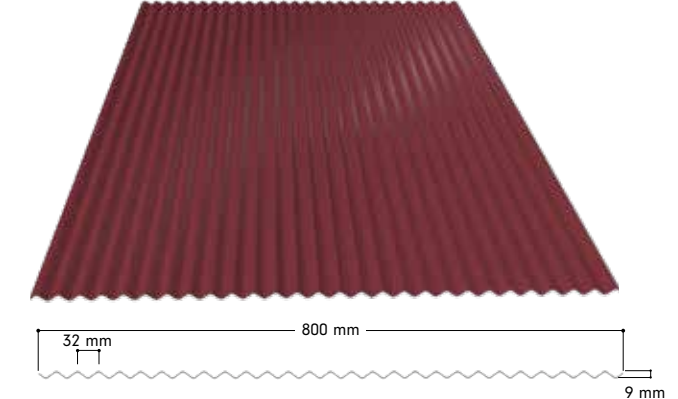
Useful Width : 1.000 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



9/32 Stor Corrugated Sheet

The product is the corrugated steel form of galvanized or painted products and manufactured in 9/32 form.

Useful Width : 800 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



CORRUGATED SHEETS

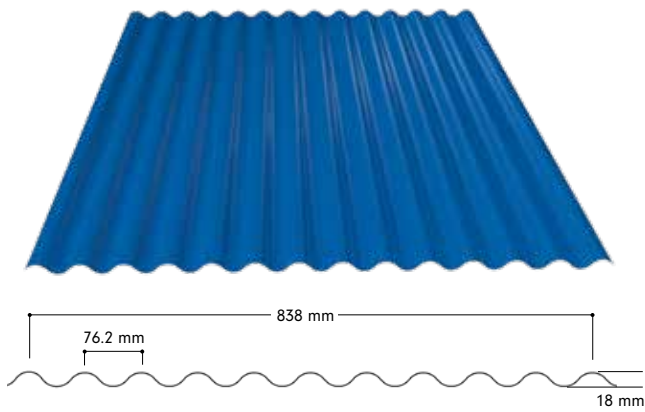
18/76 Sinus Corrugated Sheet

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum in 18/76 form. It is also suitable as a roof cladding material in low purlin spacings of high slope roofs. It has sinus grooves and 838 mm useful width.

PPGS	Multi Span					
Sheet Thickness (mm)	150 cm	180 cm	200 cm	220 cm	240 cm	280 cm
0,5	154	107	87	72	60	44
0,6	200	139	113	93	78	57
0,7	231	161	130	108	90	66
0,8	262	182	148	122	102	75

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 838 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



CORRUGATED SHEETS

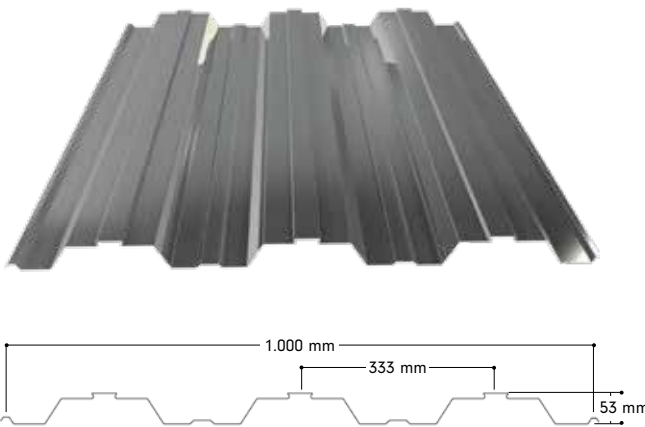
53/333 Deck

53/333 Deck provides excellent integrity between concrete and steel with its 53 mm pitch height and advanced form features. Offering the maximum bearing capacity, this exceptional corrugated sheet enables wide clearances to be spanned easily. Its lateral embossments raised on the pitches in opposite directions ensure adherence performance between steel and hardened concrete. The useful width of the 53/333 Deck Corrugated Sheet is 1.000 mm. Also, the wide and effective cladding area provides economy in terms of material and labor. 53/333 Deck Corrugated Sheet is produced as roll-form. The maximum production length of Deck Corrugated Sheet is 16 m, and its thickness varies between 0.70 mm to 1.50 mm.

Span	Panel	0,80 mm		0,90 mm		1,00 mm		1,20 mm	
	(Concrete) Thickness	Purlin Spacing (m)		Purlin Spacing (m)		Purlin Spacing (m)		Purlin Spacing (m)	
Multi Span	100	1469	760 629	1712	895 702	1955	1029 777	1309	1000 779
	130	1397	688 557	1640	823 630	1883	957 705	1237	928 707
	140	1373	664 533	1616	799 606	1859	933 681	1213	904 683
	150	1349	640 509	1592	775 582	1835	909 657	1189	880 659
	175	1289	580 449	1532	715 522	1775	849 597	1129	820 599
	200	1229	520 389	1472	655 462	1715	789 537	1069	760 539

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

Useful Width : 1.000 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel
Internal Sheet Type : Prepainted Galvanized Steel



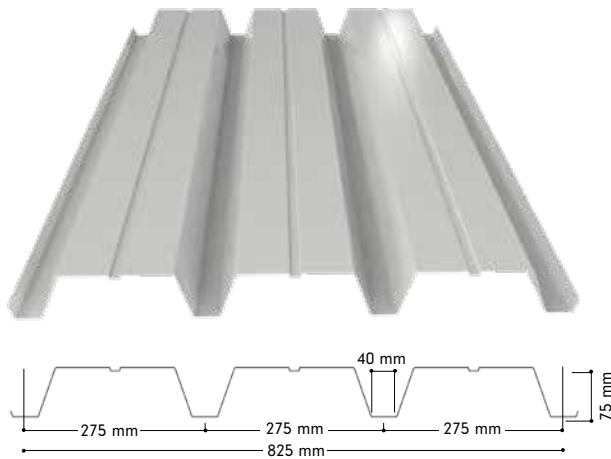
75/275

The product is a single-layer corrugated sheet manufactured from prepainted galvanized steel in 75/275 form, is 4-pitch, and has 645 mm useful width.

PPGS	Multi Span					
Sheet Thickness (mm)	200 cm	250 cm	280 cm	300 cm	325 cm	350 cm
0,5	471	290	245	182	145	101
0,6	569	354	293	223	181	133
0,7	667	416	349	264	209	167
0,8	761	481	405	311	260	199
0,9	851	541	458	356	289	234
1,0	937	605	517	406	347	271

• Load Values kg/m² • Limit Value L/200 • PPGS: Prepainted Galvanized Sheet

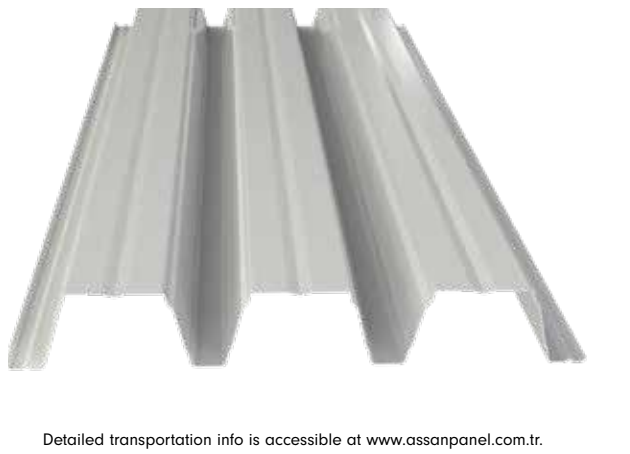
Useful Width : 825 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



110/233 High Pitch

High Pitch Corrugated Sheet is a single-layer corrugated sheet manufactured from prepainted galvanized steel or prepainted aluminum. This form is within the scope of special production, and is used in roofs, walls, and as a mold under reinforced concrete. With a special pitch height, this corrugated sheet eliminates the need for purlins in roof constructions thanks to its ability to span over two clearances from truss to truss on steel constructions and provides important advantages in terms of joint details and labor. Thanks to the corrugated form, it is suitable either for use over long clearances or as a bottom cladding in the on-site application of double-insulated systems. It is possible to absorb the sound in the building in case a Perforated High Pitch Corrugated Sheet is used on purpose. Its perforated form captures the sound inside and prevents echoing. It is recommended especially for noisy and crowded environments such as airports, etc.

Useful Width : 650 mm
Place of Use : Roof and Wall Claddings
External Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum
Internal Sheet Type : Prepainted Galvanized Steel, Prepainted Aluminum



Detailed transportation info is accessible at www.assanpanel.com.tr.

POLYCARBONATE PANELS

Polycarbonate panel materials have become an important architectural design parameter, especially when the lightning needs of macro-scale industrial structures are considered. The purpose of polycarbonate panel products is to reduce energy costs to the minimum by maximizing the use of daylight. Polycarbonate panel products are designed for all kinds of wall and roof claddings with the fast and seamless installation advantage to benefit more from daylight.

Our high-performance polycarbonate skylight solutions demonstrate an advanced resistance against abrasion caused by UV rays, ensuring an excellent daylight photoconductivity and structural performance.

They are fully compatible with Assan Panel sandwich panels that have the same section. Thanks to that, they provide thermal and heat insulation. Their closed-cell structure provides thermal insulation.

The high impact strength endows the panels with resistance against failures, in addition to the UV resistance that protects the interior building against the harmful effects of the sun.

While the availability of transparent or opaque production meets various lightning needs, their relative lightness compared to the glass applications used for light transmittance is a reason for preference.

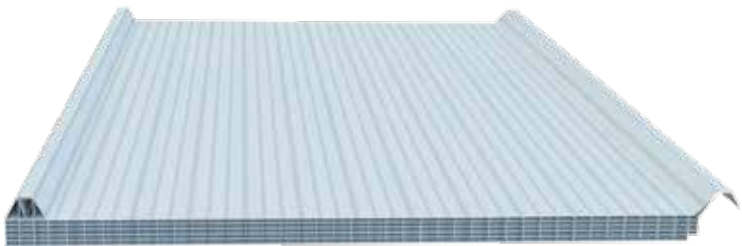


POLYCARBONATE PANELS

Minimum Energy Consumption
Maximum Lighting

MultiLight

- 40mm Thickness
- 1000 mm Useful Width
- Natural Lighting
- Optimum Utilization of Daylight
- Comfort Condition
- High Energy Saving
- High UV Resistance
- Easy and Fast Assembly Opportunity
- Light and Economy Compared to Glass-Joinery Systems



Thickness 40 mm

Length	Thermal Conductivity Coefficient	Thermal Expansion Coefficient	Light Transmittance Rates	Temperature Resistance
Min. 100 cm, max. depends on the transportation conditions.	1,15 W/m²K	0,065 mm/m°C	Transparent %59 Opaque %30	-40 °C / +120 °C



Minimum Energy Consumption

Maximum Lighting

Our high-performance polycarbonate roof and wall light solutions offer superior resistance to UV wear, providing excellent long-term light transmission performance and thermal and structural performance. Our portfolio of skylight solutions is designed to support any commercial building and provide maximum design flexibility.

P1000 / P980 / P965



Original polycarbonate sheet fully compatible with Assan Panel products

Thickness	30 mm
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P1000

P980

P965

P895

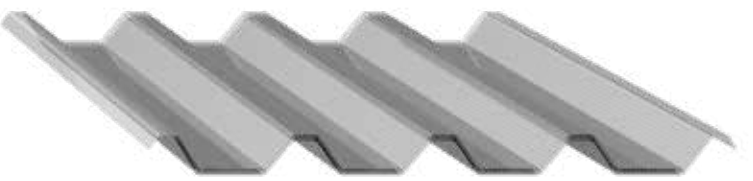




P895

Length	Thermal Conductivity Coefficient	Thermal Expansion Coefficient	Light Transmittance Rates	Temperature Resistance
Min. 100 cm, max. depends on the transportation conditions.	1,35 W/m²K	0,065 mm/m°C	Transparent %59 Opaque %30	-40 °C / +120 °C

G1040 / G1020 / G1010 / G1000



Original polycarbonate sheet fully compatible with Assan Panel products

Thickness	12 mm
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G1040

G1020

G1010

G1000

Length	Thermal Conductivity Coefficient	Thermal Expansion Coefficient	Light Transmittance Rates	Temperature Resistance	Bending Radius
Min. 100 cm, max. Depends on transportation conditions.	2,30 W/m²K	0,065 mm/m°C	Transparent 72% Opaque 55%	-40 °C / +120 °C	Min. 6000 mm

It is used for thermal, sound, and fire insulation of external walls under jacketing.

The product is in the A1 fire-proof material class according to TS EN 13501-1. It offers acoustic solutions with Class A sound absorption performance. It remains unaffected by the possible temperature changes thanks to its dimensional stability. AssanWool has a water repellent feature. It is ecological and environmentally friendly and contributes to sustainability as produced from natural raw materials.

Usage Areas

- As thermal insulation board for facades of buildings (jacketing),
- For thermal insulation of cold and hot roofs,
- In partition walls for acoustic solutions and sound insulation purposes,
- In industrial furnaces (up to 700 °C),
- In refineries,
- On steel doors (for sound and fire insulation purposes),
- In ships,
- In entertainment centers (for sound and fire safety),
- In studios,
- In areas such as conference rooms, cinemas etc.

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AssanBoard

Suitable roof, wall, and floor insulation AssanBoard insulation boards are preferred in industrial buildings, houses, public buildings, malls, cold room stores, and all types of cold and hot roof applications. Also, it has the anti-mold feature by the structure of boards ensuring thermal, sound, and water insulation. They meet all types of insulation needs of buildings with various surface coating alternatives preferred according to the required insulation.

Advantages

- High fire resistance
- High compression strength
- Easy to install and budget friendly
- High energy saving
- Environmentally friendly and sustainable buildings



AssanDemir

Assan Panel Fasteners provide expert solutions for your roof and wall applications in industrial facilities.

Made of hardened and zinc-coated steel, self-drilling screws are the economical solution for joints in uncorroded surfaces.

Assan Demir self-drilling screws unite pieces in one phase: drills, taps, and pins. This process reduces the installation duration and saves the cost of drilling.

Assan Demir does not corrode in harsh weather conditions, and it is available with zinc coating in favorable weather conditions.

In addition, we suggest pinning with Assan Demir storm washers for higher assembly reliability, strong structure stability, and the most favorable load transfer.

Assan Demir storm washers are used to achieve a balanced load distribution in pinning corrugated profile sheets or sandwich panel constructions. Explicit reinforcement flanges are the warrant of high dimensional stability and consistent load distribution.



AssanPU



Trust-based, durability driven and performance-oriented ASSAN products offer high efficiency and quality at the same time and include; general-purpose silicone, polyurethane foam, B1 fire resistant PU foam, polyurethane sealant, and siliconized acrylic sealant.

Sound Insulation

The usage areas of AssanPu includes sound insulation materials to fill the voids between, doors and windows to prevent the passage of sound, heat, and air through the gaps, extensions of buildings (such as ventilation pipes, chimneys, and climatic units) for insulation, as well as many other similar areas.

Thermal Insulation

Rigid (hard) foams with 2 components are preferred for thermal insulation. AssanPU Foam ensures perfect thermal insulation even in the harshest conditions.

Water Insulation

Water in no way can damage a properly applied and fully cured foam. One-component polyurethane foams are preferred to prevent water leakage in outdoor applications. AssanPU Foam provides a long-lasting and effective solution in sound, heat, and water insulation applications.

References



Our Certificates



TS EN 14509: 2014



TS EN 508.1:2014



TS 7677.2014



