



# SEASHORE PANEL FACTORY

Delivering Excellence in roofing solutions



## PRODUCT CATALOGUE

# About Us

## SEASHORE PANEL FACTORY QATAR'S LEADING MANUFACTURER OF HIGH- QUALITY SANDWICH PANELS

Seashore Panel Factory, a flagship division of Seashore Group, stands as Qatar's premier manufacturer of innovative and durable sandwich panels. Established with a commitment to excellence, our state-of-the-art facility leverages advanced production techniques and industry expertise to deliver world-class insulated panels for a wide range of applications. From industrial warehouses to commercial buildings and cold storage facilities, Seashore Panel Factory is renowned for its precision engineering, energy-efficient solutions, and adherence to the highest international standards. With a focus on quality, sustainability, and customer satisfaction, we are proud to support Qatar's dynamic construction industry with products that meet the most demanding requirements.

## Overview

Seashore is an ISO 9001 :2015 certified company and follows stringent quality procedures in manufacturing products to international standards. Seashore also manufactures custom made products to specific customer requirements. In addition to manufacturing its diverse range of products, Seashore offers a range of services that include commissioning of cold stores and prefabricated warehouses. The building materials manufactured are fire rated and has individual product specifications.



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# Message

## FROM THE VICECHAIRMAN



**Mr. Salem Saeed SA AL Mohannadi**



“Seashore Panel Factory is one of our latest ventures from the trusted industrial conglomerate, Seashore Group of companies. Our state-of-the-art manufacturing facility is a testament to our commitment to Qatar National Vision 2030, and we are proud to contribute to Qatar’s economic growth and self-sufficiency.

We are committed to staying at the forefront of industry advancements by investing in cutting-edge technology, research, and development. Our team of skilled professionals works tirelessly to ensure that our products meet and exceed industry standards while minimizing our environmental footprint. We believe in building a legacy of excellence and are proud to be a part of Qatar’s dynamic growth. Together, we are shaping a sustainable future through our innovative solutions and commitment to quality.”



# Message

## FROM THE CEO



**Mr. Ashique P.K**

Welcome to Seashore Panels, where quality is our cornerstone. As a leader in manufacturing industrial warehouse solutions, we’re dedicated to delivering innovative, sustainable, and high-performance products.

We’re proud to be the first company in Qatar to achieve FM approval for our sandwich panels, a testament to our dedication to quality and innovation. Our products undergo stringent testing and certification processes, including NFPA 259 and ASTM E1359 from US Laboratory, ensuring they meet the highest safety requirements. We follow Qatar Quality Standards and we have obtained certifications from Qatar Civil Defense for Fire Safety, ensuring our products meet the highest industry standards.

Our success is driven by the passion and dedication of our talented workforce, trained with high-end coaching to ensure they stay at the forefront of industry trends, and we are grateful for the trust and support of our partners and clients. We’re proud to contribute to Qatar’s progress and look forward to serving our customers with exceptional products and services.”

# Clientele

Seashore Group has taken part in achieving the development visions in Qatar and successfully completed the projects of the below mentioned clienteles in both public and private sectors.

At Seashore Panel Factory, our clientele encompasses a diverse spectrum of esteemed organizations within the construction and architectural sectors. We proudly collaborate with leading construction firms, renowned architects, and innovative developers who recognize the importance of quality and durability in their projects.

Our partners include both local industry leaders and international entities, allowing us to contribute to a wide array of ambitious projects across various sectors, from residential and commercial developments to large-scale infrastructure initiatives. Each client we work with values our commitment to sustainability and cutting-edge technology, which aligns with their goals of delivering exceptional, eco-friendly structures.

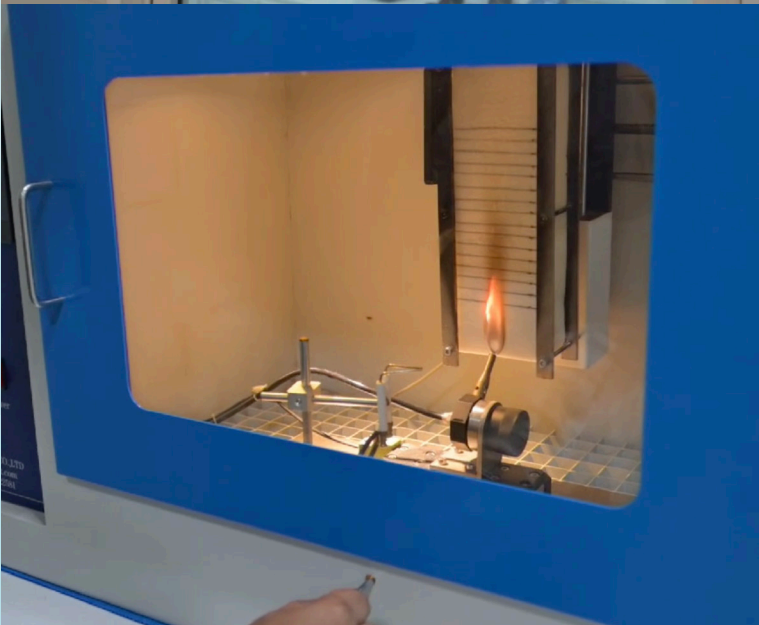


# Quality Assurance

Seashore Panels meets the requirements of ISO 9001:2008 standard and is regularly audited by foreign entities.

SPF is committed to providing clients with quality products and service through having the following systems in place:

- Well equipped laboratory with high technology content
- An effective Quality Management System
- Preset quality objectives and a system of continuous review
- A team of qualified and experienced personnel
- Extensive interaction program with customers
- A motivation program for the employees to achieve optimum results



# Fire Safety



Seashore panels are engineered with comprehensive fire safety measures that prioritize the protection of both occupants and property. Key features include:

**Fire-Resistant Materials:** Our panels are constructed using high-quality materials that are inherently fire-resistant, significantly reducing the risk of flame spread.

**Compliance with Standards:** We adhere to rigorous fire safety regulations and industry standards, ensuring our products meet or exceed local and international safety requirements.

**Thermal Performance:** The panels are designed to provide excellent thermal insulation, helping to contain heat during a fire and prevent structural damage.

**Testing and Certification:** Our products undergo extensive testing and are certified by relevant authorities to guarantee their fire safety performance.

**Design Flexibility:** The fire safety features are integrated into our panels without compromising design aesthetics, making them suitable for a variety of architectural styles.

By prioritizing these fire safety elements, Seashore panels not only enhance the overall safety of buildings but also provide peace of mind to architects, developers, and end-users alike.

# FM Certification

FM Global (Factory Mutual) is the world's leading commercial insurance body that provides client risk management through product certification systems to safeguard clients' properties. FM Approvals is a material testing and certification body which carefully appraise the construction methods vital to fire protection system certification. FM systems are widely recognized by investors, property insurers, designers and constructors for their superior fire engineered performance thus reducing fire risks.



**Seashore panels have received FM Approval as Class 1 insulated panels with no height restriction in accordance with FM Approvals standards 4880, 4881 and 4471.**

Seashore panels contain a special polyisocyanurate (PIR) insulation core offering superior fire performance when compared to most alternative standard insulation materials. PIR is a thermosetting material, which means that it will permanently become hard and rigid when heated. It will therefore not melt or drip when exposed to fire. The foam core forms a strong carbonaceous char creating a protective layer from the fire. With these unique properties, spread of fire within the panel is prevented. Seashore PIR panels do not contribute to the fire and have been proven to help reduce the risk of critical building loss.

With the successful results from tests, it is proven that when exposed to a real life fire situation, Seashore Panels :

- Do not contribute to the fire or act as fuel to it
- Do not spread flame on their surface
- Give off minimal smoke
- Preserve their insulation properties:
- Preserve their structural integrity'
- Self-extinguish when the fire source is removed



# Seashore Engineering Department & Services

At Seashore Engineering, we are deeply committed to our clients, ensuring that every project benefits from the highest quality of service and precision. Our dedicated engineering department specializes in preparing detailed shop and erection drawings, along with precise cut lengths, which significantly reduce material wastage and enhance cost-effectiveness. From the initial stages, we provide thorough estimation and budgeting services, allowing our clients to make informed decisions and manage resources efficiently. By focusing on accuracy and efficiency throughout the process, we help our clients streamline their construction efforts and achieve their project goals without compromising on quality. Our attention to detail not only



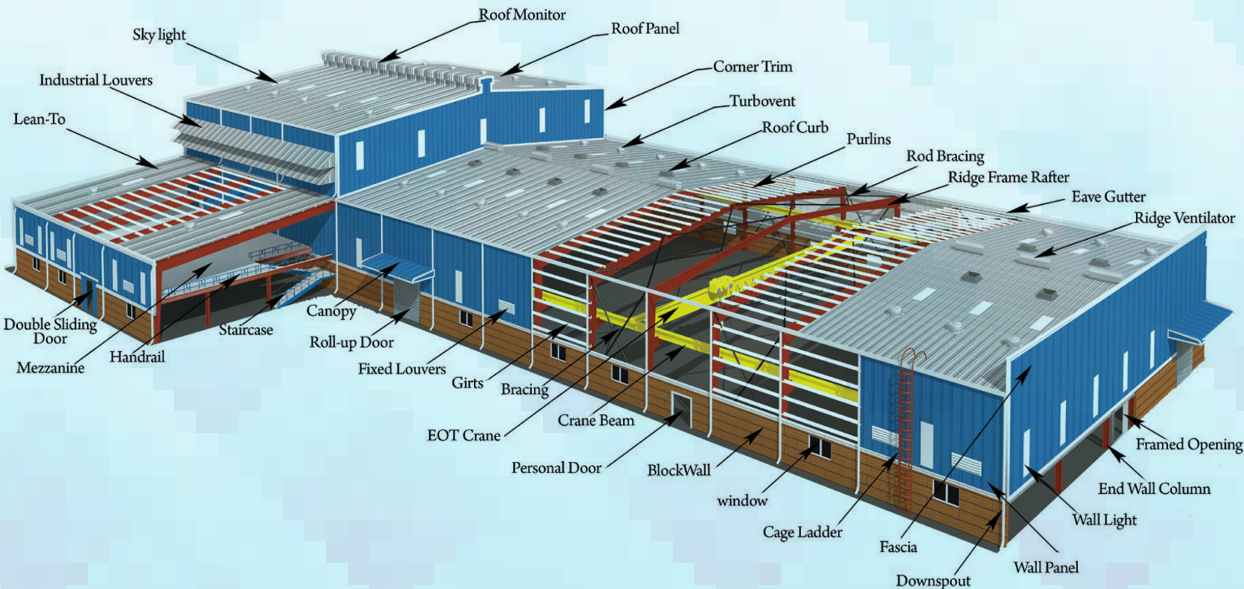
fosters trust but also delivers substantial savings, reinforcing our role as a reliable partner in every phase of the building process.

### Flashing:

Top ridge flashing	Cover strip
Bottom ridge flashing	Drip wall flashing
Drip roof flashing	Wall opening flashing
Eaves flashing	Ridge Ventilator
Side ridge flashing	Eve Gutter
Joint flashing	Valley Gutter
Vertical flashing	Insulated Gutter
External corner flashing	Expansion Joint Trim

### Accessories :

Screw with EPDM Washers	Louvers
Solar Panel Mounting Bracket	Saddle Washer
Down Spot & Down Take Pipe.	Ducktite
Butyl Sealant Tape	Silicon Tube
Purlin Tape	Filler Block
Rivet	Screw Cap
Skylight	Shear Stud
Roof Curb	Sag Rod



# Product

1

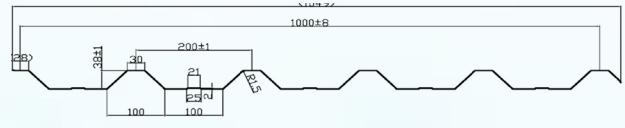
## CORRUGATED SHEETS 38/200

Seashore Panels SP38/200 Profile is a leading-edge roofing solution, offering exceptional strength, durability, and adaptability. With a 38 mm corrugation depth and 200 mm pitch, Prepainted galvanized steel or aluminum option. Production in various color options. Production flexibility at any ordered length between 2 m - 16 m sheet thickness options 0,40-0,50-0,60-0,70-0,80- 0,90 -1.20mm.



SP 38/200 Corrugated Sheet

### Applications:



## COATING TYPE AND SPECIFICATION

### Polyester Coatings

Thanks to their variety of color and gloss options and being an economic solution, the usage areas of polyester coatings are very wide. Moreover, polyester coatings are highly resistant towards flexibility, abrasion, corrosion, humidity, and impact. The application thicknesses vary between 20-25 µm and 60 µm according to the place of usage and the expected performance.

### PvDF Coatings

The strongest feature of PvDF coatings is that their resistance towards color, gloss, chalking, and many chemicals is high. Moreover, their resistance towards impact and abrasion, as well as their flexibility is very good. On the other hand, PvDF coatings are less scratch resistant, and their color and gloss options are limited when compared to polyester coatings. Application thicknesses vary between 25 µm and 28 µm.

### Plastisol Coatings

Plastisol coatings have higher application thicknesses when compared to other coating types. Dry film thicknesses varying between 100 and 120 µm are widely used. Their strongest feature is high corrosion and humidity resistance. Moreover, they are suitable for embosser application. On the other hand, plastisol coatings are less color and gloss resistant when compared to other coating types. That is why they are preferred in cold storage applications or cold and humid climate conditions in which sun rays are not too effective and UV

**SECTION PROPERTIES; Base Metal -Steel; Grade-SS340(50)**

<b>38-200 profile Single Skin Roof &amp; Wall Profile/340Mpa (Steel)</b>											
Profile Thickness mm	Weight kg/m2	Area cm2	IX cm4	Top in Compression				Bottom in Compression			
				IXeff cm4	ZX-Top cm3	ZX-Bottom cm3	Ma Kn.m	IXeff cm4	ZX-Top cm3	ZX-Bottom cm3	Ma Kn.m
0.40	3.70	4.94	9.81	8.73	3.67	6.15	0.823	7.65	5.39	3.21	0.721
0.50	4.62	6.17	12.67	11.65	4.90	8.21	1.099	10.39	7.32	4.36	0.979
0.60	5.55	7.41	15.86	15.22	6.40	10.72	1.435	13.64	9.60	5.73	1.286
0.70	6.47	8.64	18.87	18.50	7.77	13.03	1.744	16.80	11.83	7.06	1.584
0.80	7.39	9.88	21.79	21.57	9.06	15.19	2.034	20.05	14.12	8.42	1.890
0.90	8.31	11.11	24.51	24.27	10.20	17.09	2.288	23.29	16.40	9.78	2.196
1.00	9.23	12.34	27.50	27.50	11.55	19.37	2.593	26.68	18.79	11.21	2.515
1.20	11.08	14.81	32.99	32.99	13.86	23.23	3.110	32.99	23.23	13.86	3.110
f <sub>y</sub> =	34	Kn/cm2									
E=	200000000	Kn/cm2									

**STEEL SS340-Permissible Span (0.7mm)**

<b>Allowable uniform load(KN/M2) of 38-200 profile Single Skin Steel Roof &amp; Wall Profile/340Mpa</b>											
Nominal Thickness (T) in mm	No. of Spans	Load case	Span in meters								
			1.00	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.7	1	DL+LL	13.95	8.08	4.67	2.94	1.97	1.38	1.01	0.75	0.58
0.7	1	WS	12.67	7.33	4.24	2.67	1.79	1.25	0.91	0.68	0.53
0.7	2	DL+LL	13.95	8.92	6.20	4.55	3.48	2.75	2.23	1.82	1.40
0.7	2	WS	15.83	10.13	7.03	5.17	3.95	3.03	2.20	1.66	1.27
0.7	3	DL+LL	17.44	11.16	7.75	5.56	3.72	2.61	1.90	1.43	1.10
0.7	3	WS	19.79	12.67	8.01	5.04	3.38	2.37	1.73	1.30	1.00

**SECTION PROPERTIES; Base Metal -Aluminium; (AA3105-H16)**

<b>38-200 profile Single Skin Roof &amp; Wall Profile/170Mpa (AA3105-H16)</b>											
Panel Thickness mm	Weight kg/m2	Area cm2	IX cm4	Top in Compression				Bottom in Compression			
				IXeff cm4	ZX-Top cm3	ZX-Bottom cm3	Ma Kn.m	IXeff cm4	ZX-Top cm3	ZX-Bottom cm3	Ma Kn.m
0.50	1.59	6.17	13.77	11.70	4.92	8.24	0.317	10.47	7.37	4.40	0.283
0.60	1.91	7.41	16.52	14.87	6.25	10.47	0.402	13.22	9.31	5.55	0.358
0.70	2.23	8.64	19.26	17.91	7.53	12.61	0.485	15.99	11.26	6.72	0.433
0.80	2.55	9.88	22.01	21.13	8.88	14.88	0.572	18.93	13.33	7.95	0.512
0.90	2.87	11.11	24.76	24.26	10.20	17.09	0.657	21.79	15.34	9.15	0.590
1.00	3.19	12.34	27.50	27.09	11.38	19.08	0.733	24.75	17.43	10.40	0.670
1.20	3.83	14.81	32.99	32.66	13.72	23.00	0.884	31.11	21.91	13.07	0.842
f <sub>y</sub> =	17	Kn/cm2									
E=	6.90E+03	Kn/cm2									

**Aluminium AA3105 -Permissible Span (0.7mm)**

<b>Allowable uniform load(KN/M2) of 38-200 profile Single Skin AA 3105-H16 Roof &amp; Wall Profile/170Mpa</b>											
Nominal Thickness (T)	No. of Spans	Load case	Span in meters								
			1.00	1.25	1.5	1.75	2	2.25	2.5	2.75	3
0.7	1	DL+LL	3.85	2.48	1.56	0.98	0.65	0.45	0.33	0.25	0.19
0.7	1	WS	4.25	2.76	1.65	1.05	0.70	0.49	0.36	0.27	0.20
0.7	2	DL+LL	3.85	2.48	1.72	1.26	0.96	0.76	0.62	0.51	0.43
0.7	2	WS	5.40	3.45	2.40	1.75	1.35	1.06	0.86	0.65	0.50
0.7	3	DL+LL	4.83	3.10	2.15	1.57	1.21	0.85	0.62	0.51	0.43
0.7	3	WS	6.74	4.32	3.00	1.98	1.35	1.06	0.86	0.65	0.50

## 2

## WHY SEASHORE SANDWICH PANELS ?

Seashore Panel Factory's Sandwich Panels provide excellent thermal insulation, durability, and fire resistance. Featuring an insulating core between steel or aluminum layers, they are light-weight, energy-efficient, and easy to install. Ideal for walls, roofs, and cold storage, these panels offer customizable solutions for a range of building applications.

The modular metallic components manufactured by Seashore Panels include high quality corrugated metal sheets and polyurethane pre-insulated composite panels. These products are manufactured to meet the prescribed specifications of design engineers and building contractors. The components manufactured by Seashore Panels are aesthetically pleasant, weatherproof, provide thermal insulation as well as resistance to fire, fungi and mildew.

The panels are manufactured to the exact measurement to fit perfectly and are mounted without mastic (dry joints) assuring short, cost- saving construction time.



Welcome to Seashore Panel Testing and Quality Check, where we ensure excellence in our sandwich panels through rigorous testing and quality assurance. Our panels are evaluated abroad to meet international standards, and our production line undergoes regular audits to ensure consistent quality. With advanced testing facilities and a skilled team, we meticulously assess each panel for structural integrity and durability. At Seashore, quality is our priority, ensuring our clients receive the very best.

## SEASHORE PANEL FACTORY- INTERNATIONAL THIRD-PARTY TESTS APPROVALS

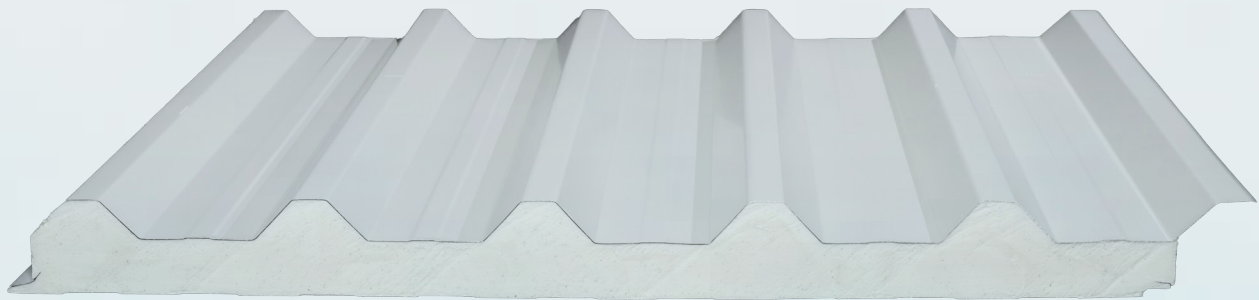
- **ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018**
- **FM Approvals (Completed from FM Approvals USA)**
  - 4880: SP Cold Room Storage Panel
  - 4880 & 4881: SP Concealed Panel
  - 4880 & 4881 & 4471: SP 38/200 Sandwich Panel
- **ASTM E1354 (Completed from VTEC Laboratories Inc. New York, USA)**
  - Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter - Cone Calorimeter Testing
- **NFPA 259 (Completed from VTEC Laboratories Inc. New York, USA)**
  - Standard Test Method for Potential Heat of Building Materials - Oxygen Bomb Calorimeter - Gross Calorific Value Testing
- **EN1365-2 (Completed from Efectis Era Avrasya, Turkey)**
  - Fire resistance tests for loadbearing elements- Roofs
- **ASTM E 283-04 :- Air Infiltration Test - Wall (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Determining Rate of Air Leakage Under Specified Pressure Differences
- **ASTM E84-22 :-Roof Panels (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E 331-00 :- Static Water Penetration Test – Wall (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Water Penetration by Uniform Static Air Pressure Differences
- **BS 476-22 (Completed from TURKISH STANDARDS INSTITUTION, TSE, Turkey)**
  - Determination of the Fire Resistance of Non-Loadbearing Elements of Construction
- **EN 1364-1:2015 (Completed from Efectis Era Avrasya, Turkey)**
  - Fire resistance tests for non-loadbearing elements – Walls
- **ASTM E84-21a :-Wall Panels (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E 283-04 :- Air Infiltration Test – Roof (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Determining Rate of Air Leakage Under Specified Pressure Differences
- **ASTM E84-21a :-Cold store Panels (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E 331-00 :- Static Water Penetration Test – Roof (Completed from Thomas Bell Wright UAE)**
  - Standard Test Method for Water Penetration by Uniform Static Air Pressure Differences



## A

## PUR SANDWICH PANELS

Seashore Panel Factory's PUR Sandwich Panels are composed of a rigid polyurethane (PUR) foam core, offering superior thermal insulation, energy efficiency, and structural integrity. Encased in steel or aluminum sheets, these panels are ideal for applications in industrial, commercial, and residential construction, including roofing, wall cladding, and cold storage facilities. Thickness - 30-50-75-100-150 mm. Length 2-16 metres. Width 1Metre. Painting Coating : Polyester paint 25 µm. Density : 38 kg/m3.



### ADVANTAGES :

- **High Thermal Insulation:** Excellent energy efficiency due to the low thermal conductivity of PUR.
- **Lightweight:** Easy to handle and install, reducing construction time and costs.
- **Durability:** Resistant to moisture, corrosion, and harsh weather conditions.
- **Fire Resistance:** Compliant with fire safety standards, offering enhanced protection.
- **Versatile Applications:** Suitable for roofing, walls, and insulation in various building types.
- **Low Maintenance:** Long-lasting performance with minimal upkeep required.



### Specifications (Options)

- Aluminium alloy A3105, H-16,
- Galvanized iron (GI) sheets conforming to ASTM A653,
- Galvanized iron (GI) sheets conforming to ASTM A653,
- Alu-zinc alloy coated steel sheets conforming to ASTM A792.

### Surface Coating (Options)

- Metallic top skin and the liner material (other than the aluminium foil can be supplied with surface coating as follows:-
- Top coat 20 micron regular modified polyester (RMP) over 5 micron primer on the outer surface (weathering side) and 5 to 7 micron primer on the reverse. PVDF, Platisol, HDP shall be applicable on request.

#### SECTION PROPERTIES (PER METER WIDTH) BASE METAL: STEEL /ALUZINC

Thickness (T) (mm)	Cover Width (mm)	Nominal Weight (kg/ m <sup>2</sup> )	Area (cm <sup>2</sup> )	Full Sect. Ix (cm <sup>4</sup> )	Elastic Modulus (E) (kN/ cm <sup>2</sup> )	Top In Compression				Bottom In Compression			
						Ix <sub>et</sub> (cm <sup>4</sup> )	Sx-Top (cm <sup>3</sup> )	Sx-Bot (cm <sup>3</sup> )	Ma <sub>bx</sub> (kNm)	Ix <sub>eb</sub> (cm <sup>4</sup> )	Sx-Top (cm <sup>3</sup> )	Sx-Bot (cm <sup>3</sup> )	Ma <sub>bx</sub> (kNm)
0.40	1000	3.83	4.84	14.66	20300	11.20	3.40	9.03	0.46	10.82	4.45	5.12	0.60
0.50	1000	4.79	6.05	18.32	20300	15.66	4.95	11.28	0.67	14.18	5.65	6.95	0.77
0.60	1000	5.75	7.26	21.99	20300	20.54	6.74	13.58	0.92	17.63	6.86	8.86	0.93
0.70	1000	6.70	8.47	25.65	20300	24.85	8.52	15.92	1.12	21.21	8.08	10.91	1.10
0.80	1000	7.66	9.68	29.31	20300	28.69	9.55	18.19	1.30	24.90	9.30	13.08	1.27
0.90	1000	8.62	10.88	32.97	20300	32.56	10.86	20.45	1.48	28.70	10.54	15.37	1.44
1.00	1000	9.58	12.09	36.63	20300	36.39	12.14	22.68	1.65	32.57	11.77	17.76	1.60
1.20	1000	11.49	14.51	43.96	20300	43.85	14.61	27.10	1.99	40.56	14.26	22.83	1.94

#### SECTION PROPERTIES (PER METER WIDTH) BASE METAL: ALUMINUM

Thickness (T) (mm)	Cover Width (mm)	Nominal Weight (kg/ m <sup>2</sup> )	Area (cm <sup>2</sup> )	Full Sect. Ix (cm <sup>4</sup> )	Elastic Modulus (E) (kN/ cm <sup>2</sup> )	Top In Compression				Bottom In Compression			
						Ix <sub>et</sub> (cm <sup>4</sup> )	Sx-Top (cm <sup>3</sup> )	Sx-Bot (cm <sup>3</sup> )	Ma <sub>bx</sub> (kNm)	Ix <sub>eb</sub> (cm <sup>4</sup> )	Sx-Top (cm <sup>3</sup> )	Sx-Bot (cm <sup>3</sup> )	Ma <sub>bx</sub> (kNm)
0.40	1000	1.33	4.84	14.66	6900	9.52	2.73	9.00	0.24	9.44	4.26	4.06	0.35
0.50	1000	1.67	6.05	18.32	6900	13.37	3.98	11.23	0.35	12.67	5.41	5.73	0.47
0.60	1000	2.00	7.26	21.99	6900	17.62	5.42	11.46	0.47	15.84	6.58	7.35	0.57
0.70	1000	2.33	8.47	25.65	6900	22.21	7.04	15.70	0.61	19.12	7.76	9.07	0.68
0.80	1000	2.66	9.68	29.31	6900	27.09	8.82	17.96	0.76	22.45	8.95	10.83	0.78
0.90	1000	3.00	10.88	32.97	6900	31.59	10.42	20.27	0.91	25.88	10.14	12.70	0.88
1.00	1000	3.33	12.09	36.63	6900	35.62	11.79	22.55	1.02	29.42	11.34	14.65	0.99
1.20	1000	4.00	14.51	43.96	6900	43.33	14.37	26.99	1.25	36.75	13.76	18.84	1.20

## B

## PIR SANDWICH PANELS

Seashore Panel Factory's PIR Sandwich Panels feature a rigid polyisocyanurate (PIR) foam core, known for its exceptional thermal insulation and energy efficiency. Sandwiched between durable steel or aluminum sheets, these panels provide excellent performance in roofing, wall cladding, and cold storage applications. Technical : Density 44kg/m<sup>3</sup>.



### ADVANTAGES :

- **Superior Thermal Insulation:** High thermal resistance, reducing energy costs and improving efficiency.
- **Water Tightness:** Engineered to prevent water infiltration, ensuring protection against leaks and moisture damage.
- **Air Infiltration Resistance:** Effective at sealing out air, maintaining indoor climate control and reducing energy loss.
- **Lightweight:** Easy to handle and install, which speeds up construction and lowers costs.
- **Durability:** Resilient against harsh weather conditions and corrosion.
- **Fire Resistance:** Meets stringent fire safety standards for added protection.

Seashore PIR Sandwich Panels offer **exceptional Water Tightness and air infiltration resistance**. Engineered to prevent water leaks and seal out air, these panels ensure effective climate control and protect against moisture damage, contributing to energy efficiency and long-lasting performance.

# FIRE SAFETY OF SEASHORE PANELS



Do not contribute to the fire or act as fuel to it

Do not spread flame on their surface

Give off minimal smoke

Preserve their insulation properties:

Preserve their structural integrity'

Self-extinguish when the fire source is removed

- 4880
- 4881
- 4471



<b>EN 13501-1</b>	Fire Classification of Non-Load Bearing Walls
<b>EN 13501-2</b>	Fire Resistance of Non-Load Bearing Elements
<b>NFPA 255 ( ASTM E84)</b>	Surface Burning Characteristics of Building Materials
<b>NFPA 285</b>	Fire Propagation Characteristics of Exterior Non-Load Bearing Walls

Direct Design Tables															
Steel sheet   Thicknesses 0,4/0,4															
Simple support conditions															
Thickness mm	Load	Uniformly distributed loads [kN/m <sup>2</sup> ]													
		Span L [m]													
		1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75
30	▲	2,70	2,12	1,72	1,43	1,21	1,04	0,90	0,75	0,62	0,51	0,43	0,37	0,32	
	▼	2,28	1,77	1,41	1,15	0,95	0,77	0,52	0,34						
40	▲	3,21	2,58	2,12	1,78	1,52	1,31	1,15	1,01	0,85	0,71	0,60	0,51	0,44	0,39
	▼	2,72	2,15	1,75	1,44	1,21	1,02	0,81	0,57	0,39					
50	▲	3,76	3,07	2,56	2,17	1,86	1,62	1,42	1,25	1,11	0,95	0,81	0,69	0,60	0,52
	▼	3,18	2,56	2,11	1,76	1,49	1,27	1,10	0,85	0,62	0,45	0,31			
60	▲	4,33	3,58	3,02	2,58	2,23	1,94	1,71	1,51	1,35	1,21	1,05	0,90	0,78	0,68
	▼	3,66	2,99	2,49	2,10	1,79	1,54	1,33	1,16	0,89	0,67	0,50	0,36		
80	▲	5,51	4,65	3,97	3,44	3,00	2,63	2,31	1,97	1,69	1,48	1,30	1,16	1,03	0,93
	▼	4,66	3,89	3,29	2,82	2,43	2,11	1,84	1,62	1,43	1,20	0,95	0,74	0,58	0,44
100	▲	6,47	5,53	4,83	4,28	3,80	3,27	2,74	2,33	2,01	1,75	1,54	1,37	1,23	1,11
	▼	5,69	4,82	4,13	3,56	3,10	2,71	2,38	2,11	1,87	1,67	1,49	1,21	0,98	0,79
▲ Ascending load ▼ Descending load															
Multiple support conditions															
Thickness mm	Load	Uniformly distributed loads [kN/m <sup>2</sup> ]													
		Span L [m]													
		1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75
30	▲	2,70	2,09	1,63	1,31	1,09	0,92	0,80	0,70	0,62	0,55	0,50	0,46	0,42	0,39
	▼	2,28	1,77	1,41	1,15	0,95	0,79	0,67	0,57	0,49	0,42	0,37	0,32		
40	▲	3,06	2,30	1,81	1,47	1,23	1,05	0,91	0,80	0,71	0,64	0,58	0,53	0,49	0,45
	▼	2,72	2,15	1,75	1,44	1,21	1,02	0,87	0,75	0,65	0,57	0,50	0,44	0,39	0,34
50	▲	3,37	2,55	2,01	1,64	1,38	1,18	1,02	0,90	0,81	0,73	0,66	0,61	0,56	0,52
	▼	3,18	2,56	2,11	1,76	1,49	1,27	1,10	0,95	0,83	0,73	0,64	0,57	0,50	0,45
60	▲	3,55	2,71	2,14	1,75	1,47	1,26	1,09	0,96	0,86	0,78	0,71	0,65	0,60	0,56
	▼	3,66	2,99	2,49	2,04	1,68	1,41	1,20	1,04	0,91	0,80	0,71	0,63	0,56	0,51
80	▲	4,22	3,15	2,48	2,03	1,72	1,49	1,31	1,17	1,06	0,97	0,90	0,84	0,78	0,74
	▼	4,66	3,82	2,96	2,38	1,96	1,67	1,45	1,27	1,12	1,00	0,90	0,82	0,75	0,68
100	▲	4,45	3,36	2,64	2,16	1,82	1,57	1,38	1,23	1,12	1,02	0,94	0,88	0,82	0,77
	▼	5,34	3,99	3,09	2,48	2,04	1,73	1,48	1,30	1,15	1,02	0,92	0,83	0,76	0,69
▲ Ascending load ▼ Descending load															
Steel sheet   Thicknesses 0,5/0,4															
Simple support conditions															
Thickness mm	Load	Uniformly distributed loads [kN/m <sup>2</sup> ]													
		Span L [m]													
		1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75
30	▲	3,06	2,40	1,95	1,62	1,36	1,17	1,01	0,82	0,67	0,56	0,47	0,40	0,35	0,30
	▼	2,60	2,02	1,61	1,31	1,09	0,89	0,62	0,42						
40	▲	3,60	2,88	2,37	2,00	1,70	1,47	1,28	1,12	0,92	0,77	0,65	0,55	0,48	0,42
	▼	3,06	2,43	1,97	1,63	1,37	1,16	0,91	0,66	0,47	0,32				
50	▲	4,17	3,40	2,84	2,41	2,07	1,80	1,58	1,40	1,22	1,02	0,87	0,74	0,64	0,56
	▼	3,55	2,86	2,36	1,98	1,68	1,44	1,24	0,95	0,71	0,52	0,37			
60	▲	4,77	3,94	3,32	2,85	2,47	2,15	1,90	1,66	1,42	1,24	1,09	0,96	0,83	0,72
	▼	4,05	3,32	2,77	2,34	2,00	1,73	1,50	1,28	0,98	0,75	0,56	0,42		
80	▲	6,00	5,06	4,34	3,77	3,30	2,82	2,36	2,00	1,72	1,50	1,32	1,17	1,05	0,94
	▼	5,10	4,26	3,62	3,11	2,70	2,35	2,06	1,82	1,61	1,30	1,04	0,82	0,64	0,49
100	▲	6,47	5,53	4,83	4,28	3,84	3,32	2,78	2,36	2,03	1,77	1,56	1,38	1,24	1,12
	▼	6,17	5,24	4,51	3,91	3,42	3,00	2,65	2,35	2,10	1,88	1,60	1,31	1,07	0,86
▲ Ascending load ▼ Descending load															
Multiple support conditions															
Thickness mm	Load	Uniformly distributed loads [kN/m <sup>2</sup> ]													
		Span L [m]													
		1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75
30	▲	3,06	2,40	1,91	1,54	1,27	1,08	0,93	0,81	0,72	0,64	0,58	0,52	0,48	0,44
	▼	2,60	2,02	1,61	1,31	1,09	0,91	0,77	0,66	0,57	0,49	0,43	0,38	0,33	
40	▲	3,60	2,71	2,13	1,72	1,43	1,22	1,05	0,92	0,82	0,74	0,67	0,61	0,56	0,51
	▼	3,06	2,43	1,97	1,63	1,37	1,16	0,99	0,86	0,75	0,65	0,57	0,51	0,45	0,40
50	▲	3,97	3,00	2,36	1,92	1,61	1,37	1,19	1,05	0,93	0,84	0,76	0,70	0,64	0,60
	▼	3,55	2,86	2,36	1,98	1,68	1,44	1,24	1,08	0,94	0,83	0,73	0,65	0,58	0,52
60	▲	4,16	3,18	2,51	2,05	1,71	1,46	1,27	1,12	1,00	0,90	0,81	0,75	0,69	0,64
	▼	4,05	3,32	2,77	2,34	1,99	1,68	1,43	1,24	1,08	0,95	0,84	0,75	0,68	0,61
80	▲	4,99	3,71	2,90	2,37	2,00	1,72	1,51	1,35	1,22	1,12	1,03	0,95	0,89	0,84
	▼	5,10	4,26	3,51	2,82	2,32	1,98	1,71	1,50	1,33	1,19	1,07	0,97	0,89	0,81
100	▲	5,23	3,95	3,10	2,53	2,12	1,82	1,60	1,42	1,28	1,17	1,08	1,00	0,93	0,88
	▼	6,17	4,74	3,68	2,94	2,43	2,05	1,75	1,53	1,36	1,21	1,09	0,99	0,90	0,83

Seashore Panel Factory's PIR Sandwich Panels feature a rigid polyisocyanurate (PIR) foam core, known for its exceptional thermal insulation and energy efficiency. Sandwiched between durable steel or aluminum sheets, these panels provide excellent performance in roofing, wall cladding, and cold storage applications.

## 3

## CONCEALED SANDWICH PANELS



Efectis



TÜRK  
STANDARTLARI  
ENSTİTÜSÜ  
TURKISH  
STANDARDS  
INSTITUTION



ICV  
IN-COUNTRY VALUE  
CERTIFIED

Seashore Concealed Sandwich Panels feature either PIR or PUR foam cores, offering exceptional thermal insulation and durability. Designed with a hidden fixing system, these panels provide a sleek, uninterrupted surface ideal for both exterior and interior applications. The PIR core enhances water tightness and air infiltration resistance, while the PUR core delivers high energy efficiency.



## APPLICATIONS

Seashore sandwich panels are both a cladding and thermal insulation product for industrial buildings. The sandwich panels can be used to build perimeter and partition walls, or as a light-weight façade cladding. The sandwich panels are a good solution for constructing and finishing a variety of projects:

- **INDUSTRIAL**
- **COMMERCIAL**
- **OFFICE AND ADMINISTRATION**
- **SPORTS AND ATHLETICS**



### **SINGLE SPAN CONDITION – UNFACTORED LOAD / SPAN TABLE**

Outer sheet: 0.50mm pre-painted GI, Inner sheet: 0.40mm pre-painted GI

Panel Thick (T) (mm)	Load Type	Uniformly distributed loads KN/m <sup>2</sup>							
		Span in L in meters (m)							
		1.50	2.00	2.20	2.40	2.60	2.80	3.00	3.20
50	Pressure	5.54	4.05	3.35	2.89	2.42	2.11	1.79	1.57
50	Suction	4.96	3.63	2.95	2.52	2.08	1.79	1.49	1.29
100	Pressure	7.37	5.39	4.85	4.44	4.10	3.81	3.56	3.33
100	Suction	7.33	5.36	4.78	4.01	3.42	2.95	2.57	2.26

### **DOUBLE SPAN CONDITION – UNFACTORED LOAD / SPAN TABLE**

Outer sheet: 0.50mm pre-painted GI, Inner sheet: 0.40mm pre-painted GI

Panel Thick (T) (mm)	Load Type	Uniformly distributed loads KN/m <sup>2</sup>							
		Span in L in meters (m)							
		1.50	2.00	2.20	2.40	2.60	2.80	3.00	3.20
50	Pressure	6.41	4.69	4.11	3.67	3.22	2.83	2.29	1.98
50	Suction	5.37	3.93	3.15	2.71	2.26	1.98	1.69	1.51
100	Pressure	7.37	5.39	4.85	4.44	4.10	3.81	3.56	3.23
100	Suction	7.33	5.36	4.78	4.01	3.42	2.95	2.57	2.26

**Notes:**

- The Panel can be installed both vertically and horizontally.
- Deflection limits  $L/100$  for wind pressure and suction loads.
- The actual wind suction load resisted by the panels will depend on the number of fasteners and the materials of the supporting rails / purlins.
- The supporting rails/ purlins: minimum thickness 1.50mm, and minimum bearing distance 60mm.
- Standard sheet thickness: 0.50mm pre-painted GI for outer sheet and 0.40mm for inner sheet.
- The insulation is considered as rigid, non-compressible PU or PIR.
- For the panels with higher facing sheet thickness may refer to the same loading table for conservative consideration.
- For sheet thickness over 0.50mm, and insulation over 100mm, to follow the table for 100mm as a conservative approach.

**SINGLE SPAN CONDITION – UNFACTORED LOAD / SPAN TABLE**

Outer sheet: 0.70mm Aluminum, Inner sheet: 0.50mm Aluminum

Panel Thick (T) (mm)	Load Type	Uniformly distributed loads KN/m <sup>2</sup>							
		Span in L in meters (m)							
		1.50	2.00	2.20	2.40	2.60	2.80	3.00	3.20
50	Pressure	3.88	2.84	2.35	2.02	1.69	1.48	1.25	1.10
50	Suction	3.47	2.54	2.07	1.76	1.46	1.25	1.04	0.90
100	Pressure	5.16	3.77	3.40	3.11	2.87	2.67	2.49	2.33
100	Suction	5.13	3.75	3.35	2.81	2.39	2.07	1.80	1.58

**DOUBLE SPAN CONDITION – UNFACTORED LOAD / SPAN TABLE**

Outer sheet: 0.70mm Aluminum, Inner sheet: 0.50mm Aluminum

Panel Thick (T) (mm)	Load Type	Uniformly distributed loads KN/m <sup>2</sup>							
		Span in L in meters (m)							
		1.50	2.00	2.20	2.40	2.60	2.80	3.00	3.20
50	Pressure	4.49	3.28	2.88	2.57	2.25	1.98	1.60	1.39
50	Suction	3.76	2.75	2.21	1.90	1.58	1.39	1.18	1.06
100	Pressure	5.16	3.77	3.40	3.11	2.87	2.67	2.49	2.26
100	Suction	5.13	3.75	3.35	2.81	2.39	2.07	1.80	1.58

**Notes:**

- The Panel can be installed both vertically and horizontally.
- Deflection limits  $L/100$  for wind pressure and suction loads.
- The actual wind suction load resisted by the panels will depend on the number of fasteners and the materials of the supporting rails / purlins.
- The supporting rails/purlins: minimum thickness 1.50mm, and minimum bearing distance 60mm.
- Standard sheet thickness: 0.50mm pre-painted GI for outer sheet and 0.40mm for inner sheet.
- The insulation is considered as rigid, non-compressible PU or PIR.
- For the panels with higher facing sheet thickness may refer to the same loading table for conservative consideration.
- For sheet thickness over 0.50mm, and insulation over 100mm, to follow the table for 100mm as a conservative approach.

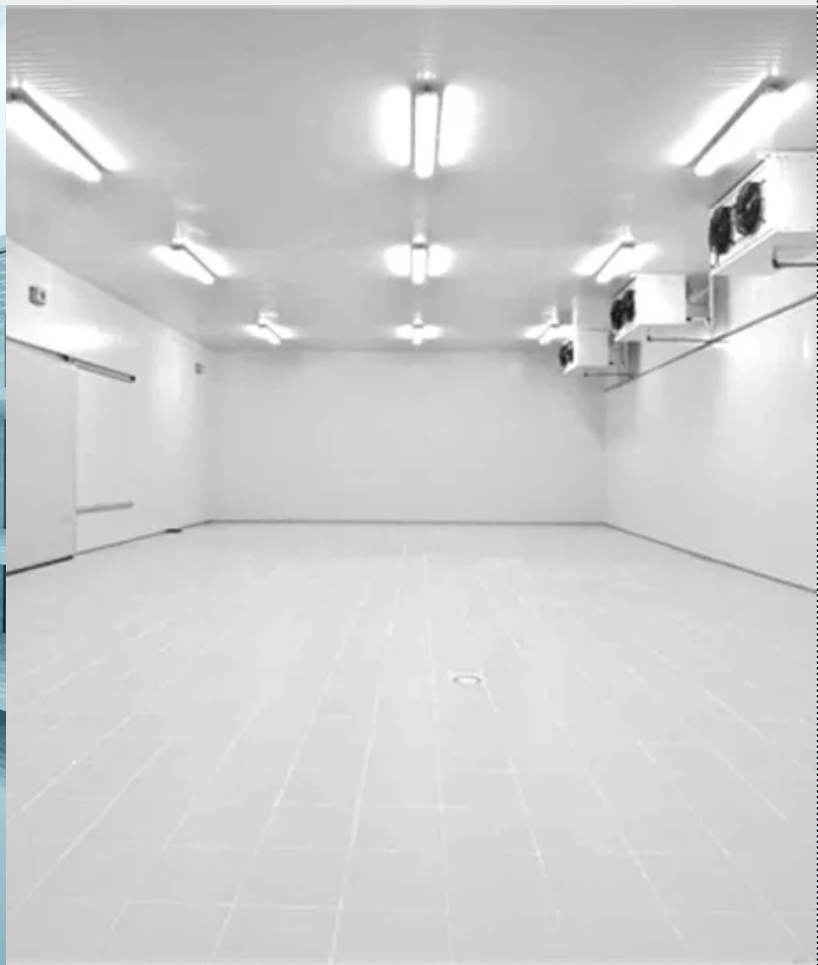
Seashore Panel Factory manufactures and supplies a wide range of insulated wall panels with a concealed joining system of micro-ribbed or shallow-ribbed surface offering a modern look to the building envelope. The sandwich wall panels provide superior thermal high insulation and fire resistance.

Seashore Panels SP-Concealed panel is available in different facings, is applicable in its usage for Wall & Ceiling applications. The concealed mean just that the joints between the panels are hidden from sight as fasteners are not visible to exterior, which improves the aesthetic value of the result.

## 4

## COLD ROOM PANELS

Seashore Cold Room Panels are engineered for optimal performance in temperature-controlled environments. With a high-performance foam core, these panels provide excellent insulation, reducing thermal transfer and maintaining consistent temperatures. Thickness - 30-50-75-100-150 mm. Length 2-16 metres. Width 1Metre. Painting Coating : Polyester paint 25  $\mu$ m. Density : 38 - 44 kg/m<sup>3</sup>. Food Safe coating and anit bacterial coating can be provided upon request.



### APPLICATIONS

Seashore sandwich panels are both a cladding and thermal insulation product for industrial buildings. The sandwich panels can be used to build perimeter and partition walls, or as a light-weight façade cladding. The sandwich panels are a good solution for constructing and finishing a variety of projects:

- INDUSTRIAL
- COMMERCIAL
- AGRICULTURAL
- OFFICE AND ADMINISTRATION
- SPORTS AND ATHLETICS
- COLD ROOM



**ADVANTAGES :**

- **Superior Insulation:** Minimizes energy consumption and maintains stable temperatures in cold storage.
- **Durable Construction:** Resists moisture and condensation, ensuring longevity and easy maintenance.
- **Energy Efficiency:** Reduces heating and cooling costs through effective thermal management.
- **Hygienic Design:** Easy-to-clean surfaces help maintain a sanitary environment.
- **Versatile Applications:** Ideal for cold rooms, freezers, and refrigerated warehouses, offering reliable performance for various storage needs.

**Outer sheet: 0.40mm pre-painted GI/AL-ZN, Inner sheet: 0.40mm pre-painted GI/AL-ZN**

Panel Thickness (T) (mm)	U-Value W / m2K	Weight	Ceiling element span, cantilever as single - span girder	Outside walls bolt distances, single - span system Wall Height
		Kg / m2		
		0.4+0.4		
100	0.23	12.1	~ m	~ m
150	0.15	14.3	7.00	5.00
			9.00	6.00

**Notes:**

- The Panel can be installed both vertically and horizontally.
- Standard sheet thickness: 0.40mm pre-painted GI/AL-ZN for outer sheet and 0.40mm for inner sheet.
- The insulation is considered as rigid, non-compressible PU or PIR.
- For the panels with higher facing sheet thickness may refer to the same loading table for conservative consideration.

**Product features**

- CFC / HCFC free
- High load bearing capacity
- Excellent and durable thermal insulation
- Absolute water and vapor barrier
- Excellent air tightness
- Easy installation
- Low maintenance cost

**• Good sound insulation**

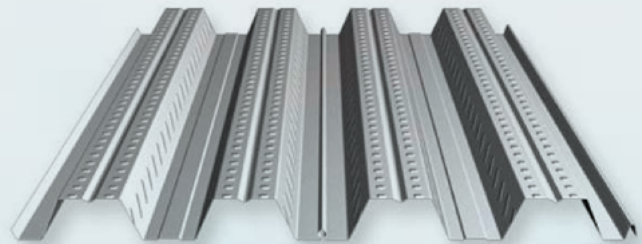
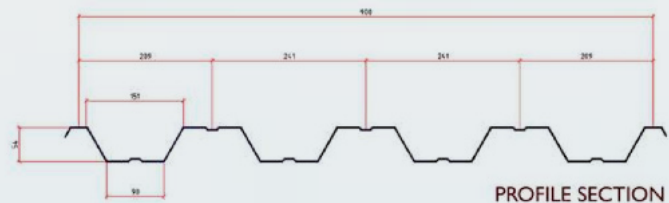
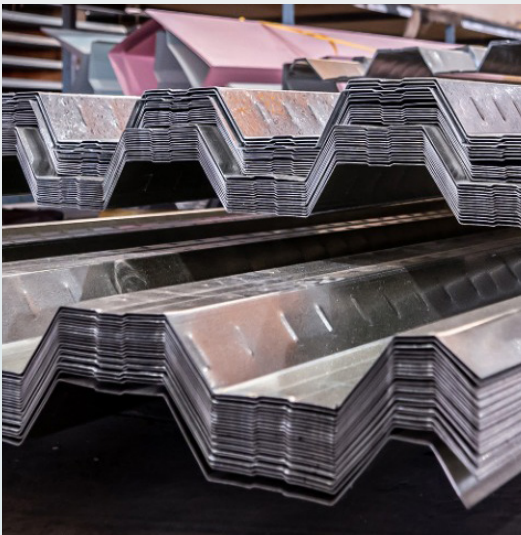
- Fire resistance
- Re-locatable
- Energy saving.

## 5

## SP 54/241 METAL DECKING SHEET

Seashore SP 54/241 Metal Decking Sheet is a robust and versatile solution for structural support in roofing and flooring applications. With a profile depth of 54mm and an effective width of 241mm, these sheets provide excellent load-bearing capacity and rigidity, making them ideal for both commercial and industrial buildings.

Technical Data : Sheet Width : 900mm, Thickness : GI 0.5 - 1.2mm, Coating : G90 ( 275g/ m<sup>2</sup>) Zinc coating, Finish : Mill Finish.



### ADVANTAGES :

- **High Strength:** Offers superior load-bearing capacity and structural support.
- **Durability:** Made from high-quality steel, ensuring resistance to corrosion and harsh weather conditions.
- **Easy Installation:** Lightweight and easy to handle, which speeds up construction and reduces labor costs.
- **Versatile Applications:** Suitable for a variety of roofing and flooring applications, providing flexibility in design.
- **Cost-Effective:** Provides a reliable and economical solution for structural support.





### SECTION PROPERTIES (PER M WIDTH ) BASE METAL : STEEL

Thickness (mm)	Cover width (mm)	Nominal Weight (kg/ m <sup>2</sup> )	Area (cm <sup>2</sup> )	Full Sect Ix (cm <sup>4</sup> )	Elastic Modulus (KN/c m <sup>2</sup> )	Top in Compression				Bottom in Compression			
						I <sub>xeb</sub> (cm <sup>4</sup> )	S <sub>x-Top</sub> (cm <sup>3</sup> )	S <sub>x-Bot</sub> (cm <sup>3</sup> )	M <sub>a<sub>top</sub></sub> (KNm)	I <sub>xeb</sub> (cm <sup>4</sup> )	S <sub>x-Top</sub> (cm <sup>3</sup> )	S <sub>x-Bot</sub> (cm <sup>3</sup> )	M <sub>a<sub>bot</sub></sub> (KNm)
0.50	900	5.32	6.94	37.34	20300	28.64	7.33	13.45	1.51	26.21	9.50	8.00	1.65
0.60	900	6.38	8.33	44.76	20300	37.00	9.74	16.46	2.01	33.90	11.63	10.82	2.23
0.70	900	7.45	9.72	52.17	20300	45.77	12.35	19.49	2.55	41.40	13.79	13.56	2.80
0.80	900	8.51	11.10	59.56	20300	54.87	15.12	22.52	3.12	49.52	16.00	16.68	3.30
0.90	900	9.58	12.49	67.15	20300	64.39	18.03	25.59	3.72	58.20	18.23	20.08	3.76
1.00	900	10.64	13.87	74.81	20300	74.06	20.99	28.66	4.33	67.17	20.49	23.70	4.23
1.20	900	12.77	16.64	90.22	20300	90.22	25.46	34.45	5.25	85.79	25.00	31.43	5.16

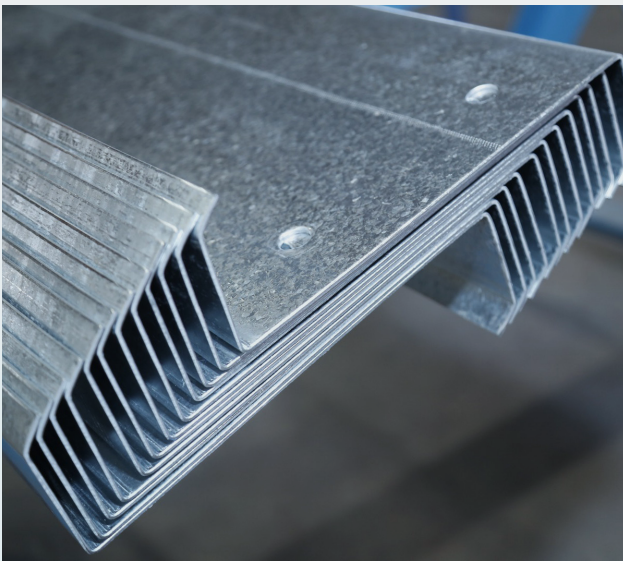
### UNIFORM ALLOWABLE LOAD (KN/m<sup>2</sup>) BASE METAL : STEEL

Nominal Thickness	No. of spans	Load case	Span											
			1.0	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75
0.5	1	BENDING	12.08	7.73	5.37	3.94	3.02	2.39	1.93	1.6	1.34	1.14	0.99	0.86
		DEFLECT	29.11	14.9	8.63	5.43	3.64	2.55	1.86	1.4	1.08	0.85	0.68	0.55
	2	BENDING	13.2	8.45	5.87	4.31	3.3	2.61	2.11	1.75	1.47	1.25	1.08	0.94
		DEFLECT	70.18	35.93	20.79	13.09	8.77	6.15	4.49	3.37	2.6	2.04	1.63	1.32
	3	BENDING	14.1	9.03	6.27	4.6	3.53	2.79	2.26	1.86	1.57	1.34	1.15	1
		DEFLECT	54.93	28.12	16.27	10.24	6.86	4.82	3.51	2.64	2.03	1.6	1.28	1.04
0.6	1	BENDING	16.08	10.29	7.15	5.25	4.02	3.18	2.57	2.13	1.79	1.52	1.31	1.14
		DEFLECT	34.89	17.87	10.34	6.51	4.36	3.06	2.23	1.68	1.29	1.02	0.81	0.66
	2	BENDING	17.84	11.42	7.93	5.83	4.46	3.52	2.85	2.36	1.98	1.69	1.46	1.27
		DEFLECT	84.12	43.07	24.93	15.69	10.51	7.38	5.38	4.04	3.11	2.45	1.96	1.59
	3	BENDING	19.06	12.2	8.47	6.22	4.76	3.76	3.05	2.52	2.12	1.8	1.56	1.36
		DEFLECT	65.84	33.71	19.51	12.28	8.23	5.77	4.21	3.17	2.43	1.92	1.54	1.25
0.7	1	BENDING	20.4	13.06	9.07	6.66	5.1	4.03	3.26	2.7	2.27	1.93	1.67	1.45
		DEFLECT	40.67	20.82	12.05	7.59	5.08	3.57	2.6	1.95	1.5	1.19	0.95	0.77
	2	BENDING	22.4	14.34	9.96	7.31	5.6	4.42	3.58	2.96	2.49	2.12	1.83	1.59
		DEFLECT	98.05	50.2	29.05	18.29	12.25	8.6	6.27	4.71	3.63	2.86	2.28	1.85
	3	BENDING	23.93	15.32	10.64	7.81	5.98	4.73	3.83	3.16	2.66	2.27	1.95	1.7
		DEFLECT	76.74	39.29	22.74	14.31	9.59	6.73	4.91	3.69	2.83	2.24	1.79	1.45
	1	BENDING	24.96	15.97	11.09	8.15	6.24	4.93	3.99	3.3	2.77	2.36	2.04	1.77
		DEFLECT	46.43	23.77	13.76	8.66	5.8	4.07	2.97	2.23	1.72	1.35	1.08	0.88

## 6

## SEASHORE Z&C PURLINS

Seashore Z&C Purlins are essential structural components used in building frameworks to support roofing and cladding systems. Available in both Z and C shapes, these purlins offer versatile solutions for various construction needs. They are manufactured from high-strength steel, ensuring durability and stability in both commercial and industrial applications.

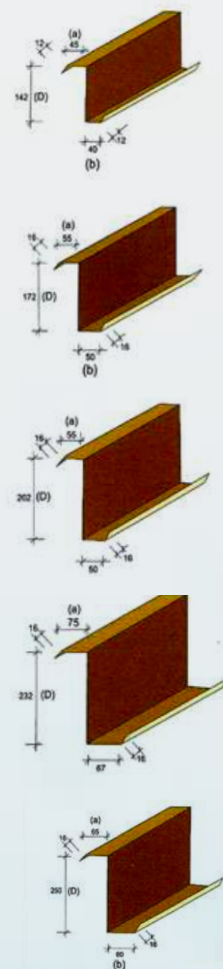
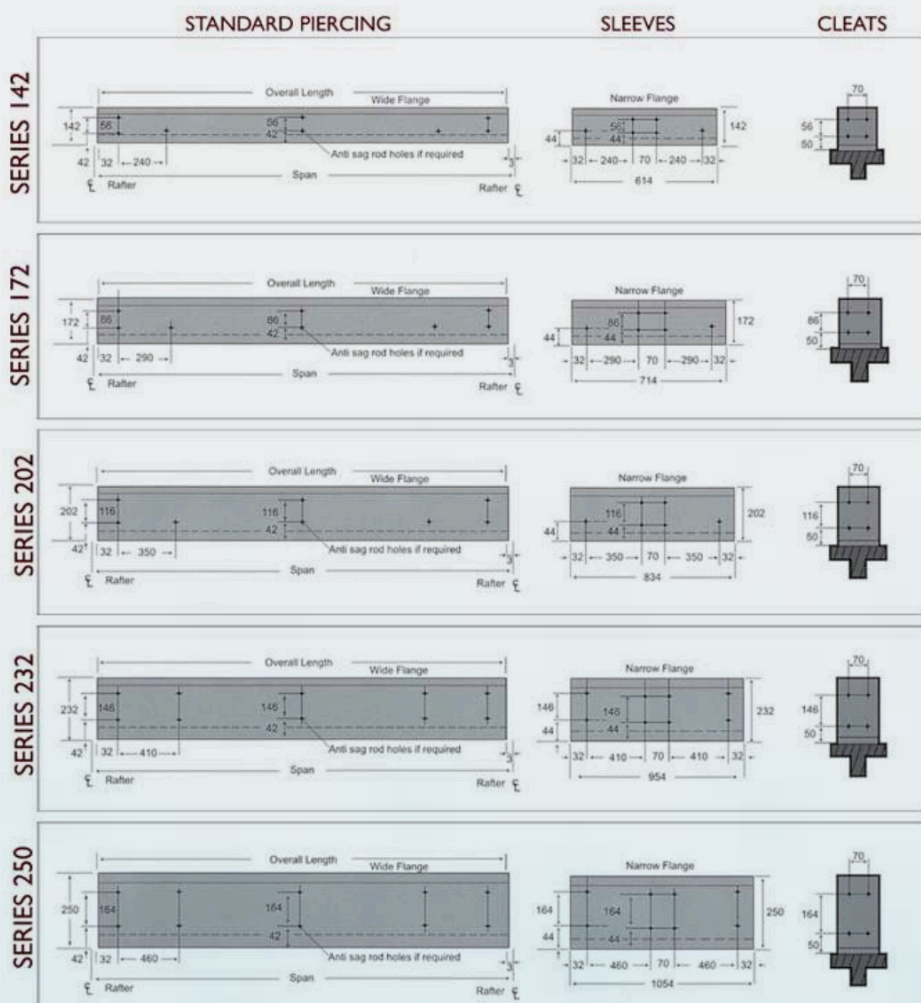


### ADVANTAGES :

- **Versatile Design:** Available in Z and C profiles, allowing for flexible design and application in different structural configurations.
- **High Strength-to-Weight Ratio:** Provides excellent load-bearing capacity while being lightweight, which reduces structural load and simplifies handling.
- **Durability:** Made from high-quality steel with protective coatings, ensuring long-term resistance to corrosion and weathering.
- **Easy Installation:** Designed for quick and efficient installation, which helps reduce construction time and costs.
- **Cost-Effective:** Offers a reliable and economical solution for supporting roofing and cladding systems.
- **Fire Resistance:** Meets stringent fire safety standards for added protection.

## COLD FORMED Z PURLINS

### Details and Dimensions



All dimensions in mm

SECTION		14220	17220	20220	23220	25020
Depth	D mm	142	172	202	232	250
Thickness	t mm	2.0	2.0	2.0	2.0	2.0
Top Flange	a mm	45	55	55	75	65
Bottom Flange	b mm	40	50	50	67	60
Weight	Kg/m	3.93	4.85	5.24	6.37	6.37
Area	mm <sup>2</sup>	471	571	631	765	767
Ixx	cm <sup>4</sup>	133	241	355	595	659
Zxx (Top)	cm <sup>3</sup>	19.1	28.5	35.7	52.3	53.4
Iyy (Top)	cm <sup>4</sup>	8.7	15.3	15.4	35.4	24.4
ryy	mm	18.47	22.3	21.22	29.1	24.4

SECTION		14215	17215	20215	23215	25015
Depth	D mm	142	172	202	232	250
Thickness	t mm	1.5	1.5	1.5	1.5	1.5
Top Flange	a mm	45	55	55	75	65
Bottom Flange	b mm	40	50	50	67	60
Weight	Kg/m	2.95	3.63	3.93	4.78	4.78
Area	mm <sup>2</sup>	357	432	477	578	579
Ixx	cm <sup>4</sup>	102	184	271	452	501
Zxx (Top)	cm <sup>3</sup>	14.0	21.3	27.2	39.8	40.6
Iyy (Top)	cm <sup>4</sup>	6.9	11.87	11.9	27.4	18.9
ryy	mm	18.8	22.65	21.55	29.5	24.74

## PURLIN SIZE FOR UPLIFT PRESSURE

WIND UPLIFT PRESSURE		75 KG/m <sup>2</sup>							
Span M	Purlin Spacing Lap	1.25 m		1.5 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
5.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
6.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
6.5		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215
Lap (mm)		367	367	367	367	667	367	967	667
7.0		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215
Lap (mm)		367	367	667	367	967	667	667	367
7.5		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		967	367	967	667	667	367	667	367
8.0		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 20220	Z - 20215
Lap (mm)		367	367	667	367	667	367	967	667
8.5		Z - 20215	Z - 20215	Z - 20220	Z - 20215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	667	367	967	667	967	667
9.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		967	667	967	667	967	367	967	667

WIND UPLIFT PRESSURE		100 KG/m <sup>2</sup>							
Span M	Purlin Spacing Lap	1.25 m		1.5 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
5.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	367	367	667	367
5.5		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 14225	Z - 14215
Lap (mm)		367	367	367	367	667	367	667	667
6.0		Z - 14220	Z - 14215	Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 17220	Z - 17215
Lap (mm)		367	367	667	367	367	367	667	367
6.5		Z - 14225	Z - 14215	Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		667	367	367	367	667	367	667	367
7.0		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	667	367	667	367	667	367
7.5		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	667	367	967	667
8.0		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	967	667	967	967
8.5		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25025	Z - 25015
Lap (mm)		967	667	967	667	967	967	967	967
9.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25025	Z - 25015	Z - 25025	Z - 25020
Lap (mm)		967	367	967	667	967	967	667	667

Note :Limiting deflection - L/180

## PURLIN SIZE FOR GRAVITY LOAD

GRAVITY LOADS		75 KG/m'							
Span M	Purlin Spacing Lap	1.25 m		1.5 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	667	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215	Z - 17215	Z - 17215
Lap (mm)		367	367	367	367	667	367	967	367
5.5		Z - 14220	Z - 14215	Z - 17215	Z - 17215	Z - 17220	Z - 17215	Z - 17220	Z - 17215
Lap (mm)		367	367	367	367	367	367	667	367
6.0		Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		367	367	367	367	667	367	667	367
6.5		Z - 17220	Z - 17215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	967	667	667	367	667	667
7.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	667	367	967	667	967	667
7.5		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	667	667	667	667	967	967
8.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020
Lap (mm)		667	367	967	667	967	967	667	667
8.5		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	667	967	967	667	667	667	667
9.0		Z - 25020	Z - 25015	Z - 30020	Z - 30015	Z - 30025	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	967	967	967	667	667	967	667

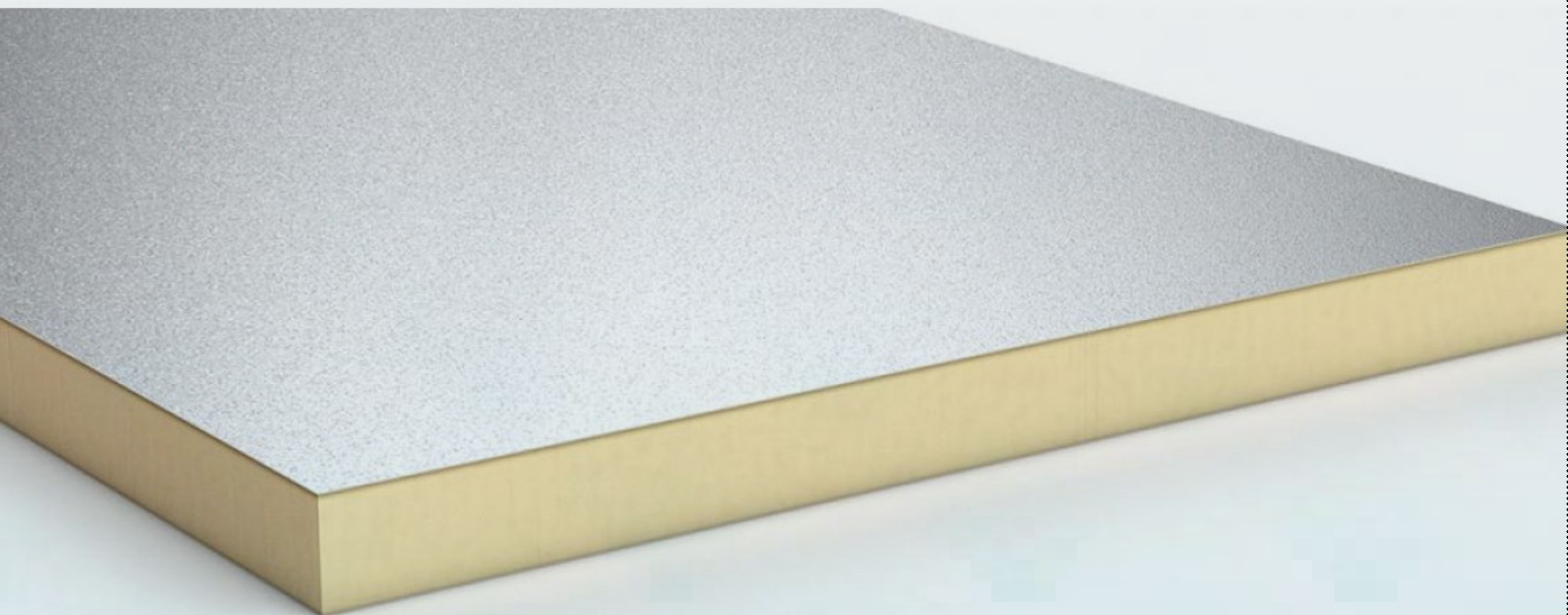
GRAVITY LOADS		100 KG/m'							
Span M	Purlin Spacing Lap	1.25 m		1.5 m		1.75 m		2.0 m	
		End	Int.	End	Int.	End	Int.	End	Int.
4.0		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215
Lap (mm)		367	367	367	367	367	367	367	367
4.5		Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14215	Z - 14220	Z - 14215
Lap (mm)		367	367	367	367	667	367	367	367
5.0		Z - 14215	Z - 14215	Z - 14220	Z - 14215	Z - 14220	Z - 14215	Z - 17215	Z - 17215
Lap (mm)		367	367	367	367	667	367	967	367
5.5		Z - 14220	Z - 14215	Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215
Lap (mm)		367	367	367	367	367	367	667	367
6.0		Z - 17215	Z - 17215	Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215
Lap (mm)		367	367	367	367	667	667	667	667
6.5		Z - 20215	Z - 20215	Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015
Lap (mm)		367	367	967	667	667	667	967	667
7.0		Z - 17220	Z - 17215	Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25020
Lap (mm)		967	667	967	667	967	667	967	667
7.5		Z - 20220	Z - 20215	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015
Lap (mm)		667	367	967	667	967	967	967	967
8.0		Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020
Lap (mm)		667	667	967	667	967	967	667	667
8.5		Z - 25220	Z - 25015	Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	667	967	967	667	667	667	667
9.0		Z - 25020	Z - 25015	Z - 30020	Z - 30020	Z - 30025	Z - 30020	Z - 30025	Z - 30020
Lap (mm)		967	967	967	967	667	667	967	667

Note :Limiting deflection - L/180

## 7

## SEASHORE PIR BOARDS

Seashore PIR Boards are high-performance insulation materials featuring a polyisocyanurate (PIR) foam core. Designed for superior thermal efficiency, these boards are ideal for use in walls, roofs, and floors, providing effective insulation in both residential and commercial buildings. Technical Data : Material : Top & Bottom Facings with Aluminum, Foil-Scrim-Kraft Facing with 2-way, scrim and 80gsm Kraft paper with, Silver Color on Outer Facings. Thickness : 25-150mm, Density : 38-49 kg/m<sup>3</sup>.



### APPLICATIONS

PIR (Polyisocyanurate) thermal boards are valued for their insulation properties in building walls, roofs, and floors, enhancing energy efficiency. They are used in flat roof systems, cold storage, and industrial applications to maintain temperature, as well as for insulating HVAC ductwork. Effective for retrofitting and popular in prefabricated construction, PIR boards improve energy efficiency and reduce costs.

- INDUSTRIAL
- COMMERCIAL
- OFFICE AND ADMINISTRATION



# GREEN BUILDING WITH SP THERMOBOARD

Polyisocyanurate (PIR) materials are proven to have the best thermal performance per given thickness of insulation among standard commercial products. They also have a very low weight and resultant loading on the structure in comparison with other insulation materials to provide equivalent insulation properties. Thermal insulation is one of the key design and construction requirements to create comfortable environments inside of buildings, which is achieved by providing protection from the heat and/or cold environment outside.



## ADVANTAGES :

- **Exceptional Thermal Insulation:** High thermal resistance reduces energy consumption and improves climate control.
- **Lightweight:** Easy to handle and install, which speeds up construction.
- **Durability:** Resistant to moisture, mold, and decay, ensuring long-lasting performance.
- **Fire Resistance:** Complies with fire safety standards, offering enhanced protection.
- **Versatility:** Suitable for a variety of applications, including wall, roof, and floor insulation.

Property	Result	Unit	Test method
Foam core apparent density	≥40	kg/m <sup>3</sup>	ASTM D 1622
Laminate squareness	≤6	mm/m	ASTM C 550
Laminate flatness	≤10	mm	ASTM C 550
Foam compressive strength(all directions at 10% compression)	≥100	kPa	
Foam closed cell content	>90	%	
Foam dimensional stability	≤3 (70C/95% RH, 20hrs) ≤1 (-10C, 20hrs)	%	
Water absorption	< 0.1	%	
Thermal Conductivity	≤0.022	W/mK	ASTM C 518

## 8

## SEASHORE AC DUCTS

Seashore AC Ducts are designed for efficient air distribution in heating, ventilation, and air conditioning (HVAC) systems. Constructed from high-quality materials with excellent insulation properties, these ducts ensure effective temperature control and energy efficiency in commercial and residential buildings.



ADVANTAGES :

- **Efficient Air Distribution:** Ensures optimal airflow and temperature control throughout the building.
- **Thermal Insulation:** Reduces heat loss and gain, improving HVAC system efficiency.
- **Durability:** Made from robust materials that resist wear and tear, extending the lifespan of the ducts.
- **Noise Reduction:** Insulated construction helps minimize operational noise from the HVAC system.
- **Easy Installation:** Designed for straightforward installation and maintenance, reducing labor and time costs.

Foam Thickness	Density	Thermal Conductivity	Dimension
20.5mm (+/- 0.5mm)	45Kg/m <sup>3</sup> (+/- 3Kg/m <sup>3</sup> )	0.021 W/m°K	4000mm X 1200mm
30mm (+/- 0.5mm)	48Kg/m <sup>3</sup> (+/- 3Kg/m <sup>3</sup> )	0.021 W/m°K	4000mm X 1200mm

Properties	Standard
Water Absorption	ASTM C 209:1998
Thermal Conductivity	ASTM C518:2010
Water Vapor Transmission	ASTM E96-00
Compressive Strength	BS EN 826:1996
Fluxural Strength	ASTM C203
Fire Classification	BS EN 13501-1:2007
Fire Propagation Index	BS 476 PART 6
Surface Spread Of Flame	BS 476 PART 7
Toxicity Index	DEFENCE STANDARD 02-713
Smoke Generation & Toxic Potency	IMO MSC 61(67) PART 2
Resistance To Fungi	ASTM G21-15

# Certificates

2023-10-01 تاريخ الشهادة  
AM 8:11 رقم الشهادة  
PAC23010810

وزارة الداخلية  
وزارة الداخلية  
Ministry of Interior

الإدارة العامة للدفاع المدني  
إدارة الدفاع المدني

نوع المنتج: إصطناع  
مادة المنتج: إصطناع  
موقع المنتج: مصنع شاطئ البحر لداف  
رقم المنتج: 175700  
رقم الشهادة: 47153  
رقم قيد المنتج: 15-0919-00  
الجهة المصنعة: Seashore Panel Factory W.L.L. / QATAR  
نوع المنتج: Internal / External Cladding Materials  
نوع المنتج: Internal / External Cladding Materials

تم مراجعة المنتج المذكور وتمت بانه لا يحد من امتداد المنتج المصنوع في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به

ملحوظات:  
1- يجب على الشركة المصنعة والمعلن بما جاء في الشهادة عدم امتداد المنتج في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به  
2- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني  
3- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني

2023-09-27 تاريخ الشهادة  
2023-09-28 تاريخ الشهادة

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DATE: 2023-10-01  
PERMIT # PAC23010810

وزارة الداخلية  
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Ministry of Interior

الإدارة العامة للدفاع المدني  
إدارة الدفاع المدني

نوع المنتج: إصطناع  
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تم مراجعة المنتج المذكور وتمت بانه لا يحد من امتداد المنتج المصنوع في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به

ملحوظات:  
1- يجب على الشركة المصنعة والمعلن بما جاء في الشهادة عدم امتداد المنتج في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به  
2- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني  
3- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني

2023-09-27 تاريخ الشهادة  
2023-09-28 تاريخ الشهادة

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2023-05-21 تاريخ الشهادة  
PM 12:22 رقم الشهادة  
PAC23005195

وزارة الداخلية  
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Ministry of Interior

الإدارة العامة للدفاع المدني  
إدارة الدفاع المدني

نوع المنتج: إصطناع  
مادة المنتج: إصطناع  
موقع المنتج: مصنع شاطئ البحر لداف  
رقم المنتج: 175700  
رقم الشهادة: 47153  
رقم قيد المنتج: 15-0919-00  
الجهة المصنعة: Seashore Panel Factory W.L.L. / QATAR  
نوع المنتج: Internal / External Cladding Materials  
نوع المنتج: Internal / External Cladding Materials

تم مراجعة المنتج المذكور وتمت بانه لا يحد من امتداد المنتج المصنوع في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به

ملحوظات:  
1- يجب على الشركة المصنعة والمعلن بما جاء في الشهادة عدم امتداد المنتج في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به  
2- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني  
3- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني

2023-05-20 تاريخ الشهادة  
2023-05-21 تاريخ الشهادة

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DATE: 2023-05-21  
PERMIT # PAC23005195

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وزارة الداخلية  
Ministry of Interior

الإدارة العامة للدفاع المدني  
إدارة الدفاع المدني

نوع المنتج: إصطناع  
مادة المنتج: إصطناع  
موقع المنتج: مصنع شاطئ البحر لداف  
رقم المنتج: 175700  
رقم الشهادة: 47153  
رقم قيد المنتج: 15-0919-00  
الجهة المصنعة: Seashore Panel Factory W.L.L. / QATAR  
نوع المنتج: Internal / External Cladding Materials  
نوع المنتج: Internal / External Cladding Materials

تم مراجعة المنتج المذكور وتمت بانه لا يحد من امتداد المنتج المصنوع في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به

ملحوظات:  
1- يجب على الشركة المصنعة والمعلن بما جاء في الشهادة عدم امتداد المنتج في التوزيع الغير المصرح به على امتداد من قبل الجهة المصنعة الموصى به في التوزيع الغير المصرح به  
2- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني  
3- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني

2023-05-20 تاريخ الشهادة  
2023-05-21 تاريخ الشهادة

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證書 CERTIFICADO CERTIFIKAT CERTIFICAT شهادة CERTIFICATE CERTIFIKAT

DENEY SERTİFİKASI  
TEST CERTIFICATE

SEASHORE PANEL FACTORY

DATE: 2023-05-21  
PERMIT # PAC23005195

وزارة الداخلية  
وزارة الداخلية  
Ministry of Interior

الإدارة العامة للدفاع المدني  
إدارة الدفاع المدني

نوع المنتج: إصطناع  
مادة المنتج: إصطناع  
موقع المنتج: مصنع شاطئ البحر لداف  
رقم المنتج: 175700  
رقم الشهادة: 47153  
رقم قيد المنتج: 15-0919-00  
الجهة المصنعة: Seashore Panel Factory W.L.L. / QATAR  
نوع المنتج: Internal / External Cladding Materials  
نوع المنتج: Internal / External Cladding Materials

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ملحوظات:  
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3- يجب ان يكون المنتج هذا المنتج من قبل مهندسين وليس مهندسين من الإدارة العامة للدفاع المدني

2023-05-20 تاريخ الشهادة  
2023-05-21 تاريخ الشهادة

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Efectis

EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.  
EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.  
EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.

DECLARATION OF TEST RESULTS

No: EEA - 2200 - 0047

The fire resistance tests were carried out for the product as described below at Effectis Era Akkaya Test Laboratory on 05.09.2023 in accordance with the test standard

EN 1365-2:2014

"SP PIR ROOF PANEL - FR"  
LOADBEARING SANDWICH PANEL, ROOF/FLOOR SYSTEM

FIRE RESISTANCE CLASSIFICATION

Direction of fire: From the side with the box shaped profiles

RE30

Placed on the market by: SEASHORE PANEL FACTORY  
Gate 295, Street 11, Zone 81, New Industrial Area, PO Box 41100, Doha / QATAR

Manufactured by: SEASHORE PANEL FACTORY  
Gate 295, Street 11, Zone 81, New Industrial Area, PO Box 41100, Doha / QATAR

4 signed: AS BAHRATAR  
Laboratory Manager  
04.11.2022

This document is a declaration of test results and does not represent any type of approval or certification of the product. All details, including test conditions and field of application are described in the report. No: EEA-2200

Efectis

EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.  
EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.  
EFFECTIS ERA AKKAYA TEST & BELGELENDİRME A.Ş.

DECLARATION OF TEST RESULTS

No: EEA - 2200 - 0046

The fire resistance tests were carried out for the product as described below at Effectis Era Akkaya Test Laboratory on 07.09.2023 in accordance with the test standard

EN 1364-1:2015

"SP PIR WALL PANEL - FR"  
NON-LOADBEARING SANDWICH PANEL PARTITION WALL SYSTEM

FIRE RESISTANCE CLASSIFICATION

Direction of fire: From the side with the box shaped profiles

E30

Placed on the market by: SEASHORE PANEL FACTORY  
Gate 295, Street 11, Zone 81, New Industrial Area, PO Box 41100, Doha / QATAR

Manufactured by: SEASHORE PANEL FACTORY  
Gate 295, Street 11, Zone 81, New Industrial Area, PO Box 41100, Doha / QATAR

4 signed: AS BAHRATAR  
Laboratory Manager  
04.11.2022

This document is a declaration of test results and does not represent any type of approval or certification of the product. All details, including test conditions and field of application are described in the report. No: EEA-2200

ISOQAR

Certificate of Registration

This is to certify that the Management System of:

Seashore Panel Factory

Gate 295, Street 11, Zone 81, P.O. Box 41100, New Industrial Area, Doha, Qatar

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018

Certificate Number: 18025-Q15-003  
Certificate Number: 18025-Q15-003  
Initial Registration Date: 23 September 2019  
Previous Expiry Date: 23 September 2022  
Re-assessment Date: 29 September 2022  
Current Expiry Date: 29 September 2025

Scope of Registration:  
Manufacturing of Roof & Wall Insulated Panels & Claddings

Signed: Alim Ibrahim, Chief Executive Officer  
(on behalf of Alcumus ISOQAR)

This certificate will remain current subject to the company maintaining its system to the required standard. It will be renewed upon the expiry of the current certificate. The certificate will be renewed upon the expiry of the current certificate. The certificate will be renewed upon the expiry of the current certificate.

Alcumus ISOQAR

THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS

In accordance with UKAS accreditation to ISO/IEC 17065  
Certification is Hereby Granted

to

Seashore Panel Factory W.L.L.

Gate 295, Street 11, Zone 81, New Industrial Area,  
P.O. Box 41100, Doha, Qatar

for

"SP 38/200"  
Metal-faced Polyisocyanurate (PIR)  
Core Sandwich Panel  
(Test Method: ASTM E84-22)

which, subject to limitations described on the following pages and continued listing on www.tbwcert.com, complies with Product Certification Scheme  
SD03 Exterior Wall Assemblies, Curtain Walls, Building Materials,  
Products & Assemblies

In witness whereof, this Certificate is issued this 18<sup>th</sup> day of September 2023

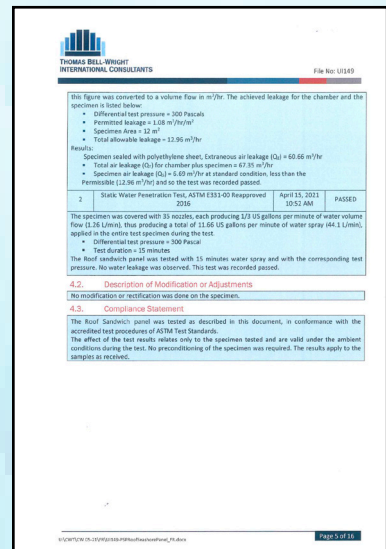
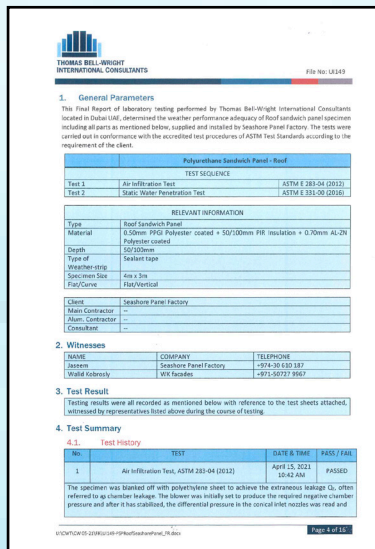
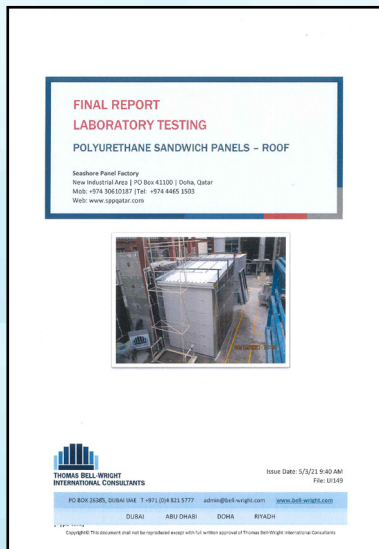
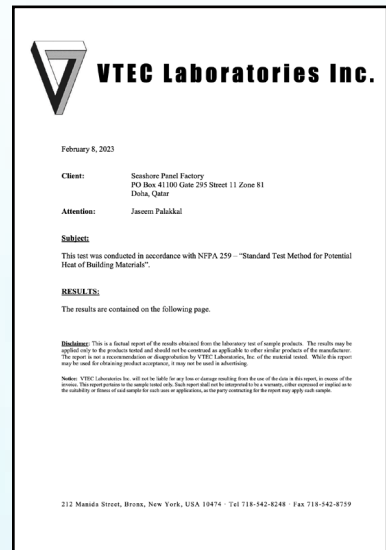
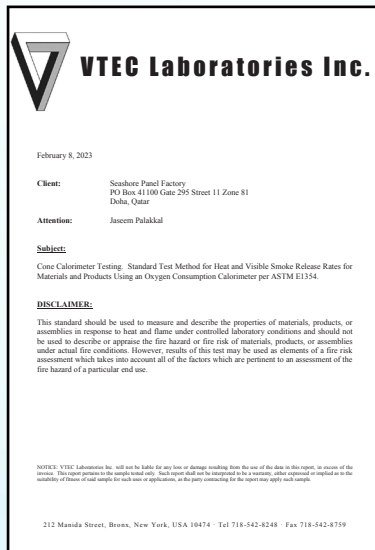
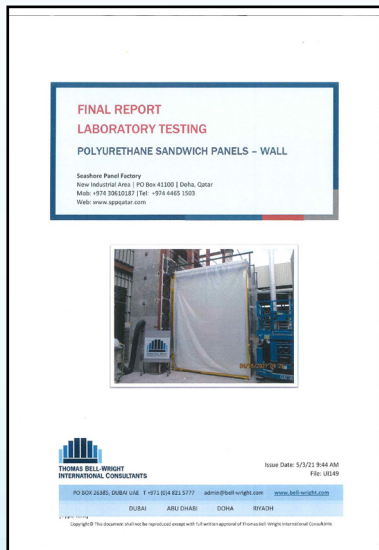
4 signed: Sandy Dweik  
Chief Executive Officer

4 signed: Nicholas Purcell  
Director of Certification

Initial registration: September 18, 2023  
Second registration: September 18, 2023  
Expiry: September 17, 2026

This certificate and its validity are only valid if the company maintains its system to the required standard. It will be renewed upon the expiry of the current certificate. The certificate will be renewed upon the expiry of the current certificate. The certificate will be renewed upon the expiry of the current certificate.

# Certificates



Seashore Panel Factory  
Qatar

Gate: 295, Street 11, Zone 81,  
New Industrial Area, Doha

[www.sppqatar.com](http://www.sppqatar.com)

