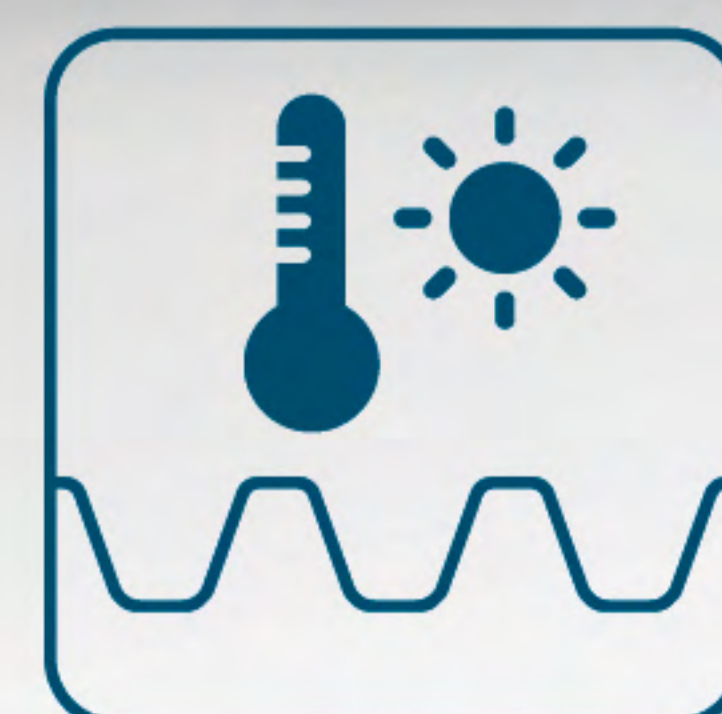
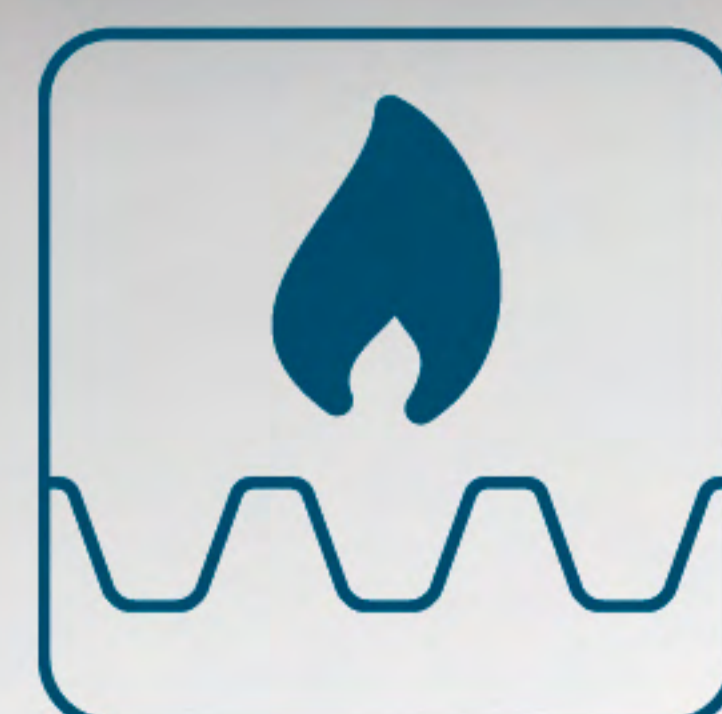
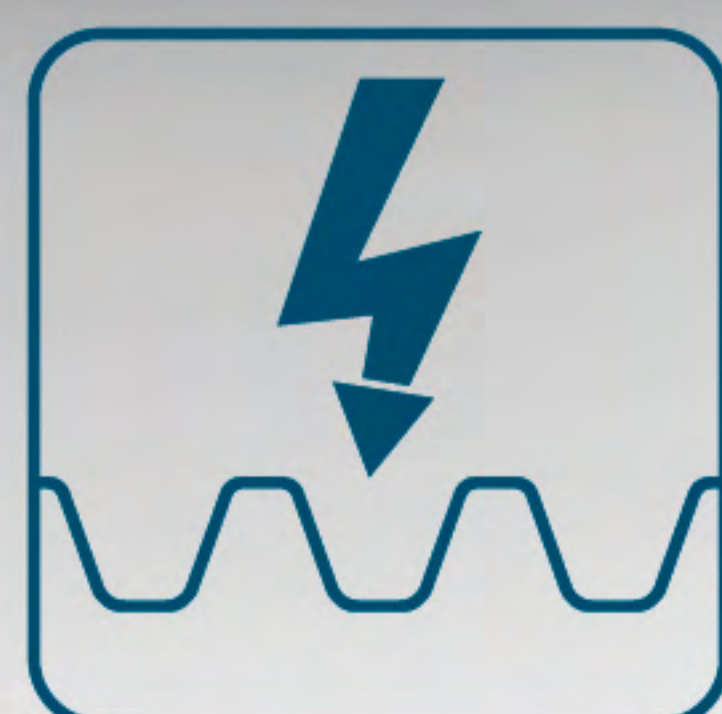


# DURADECK<sup>®</sup>

NO MATTER HOW YOU LOAD THEM  
DURADECK<sup>®</sup> PANELS DO NOT BEND



**POLSER<sup>®</sup>**

# DURADECK®

## DURADECK®

POLSER, as one of the globally leading companies in composite building products continues to add new products that provide better solutions to design and durability problems. In this context DURADECK® FRP/GRP deck panels, provides superior span possibilities with high load carrying capacity, ultimate corrosion resistance and aesthetical aspects, all at the same time.

DURADECK® is the trademark of POLSER which denotes FRP/GRP (Glass fiber reinforced plastic) deck panels that are produced on state of art continuous lamination production lines.

DURADECK® FRP/GRP sheets are modern building products which have many different fields of application. They bring solutions to the projects where classical metal, fiber cement and asbestos based products are not ideal fits for the requirements. DURADECK® panels could also be produced with fire retardant properties.

### Why use DURADECK®?

- ▶ High load carrying capacity
- ▶ High corrosion resistance
- ▶ Does not create Faraday's cage effect
- ▶ Fire retardancy
- ▶ Low thermal conductivity
- ▶ No need for maintenance
- ▶ Biological resistance
- ▶ Light and strong
- ▶ Minimum waste
- ▶ Wide choice of colors

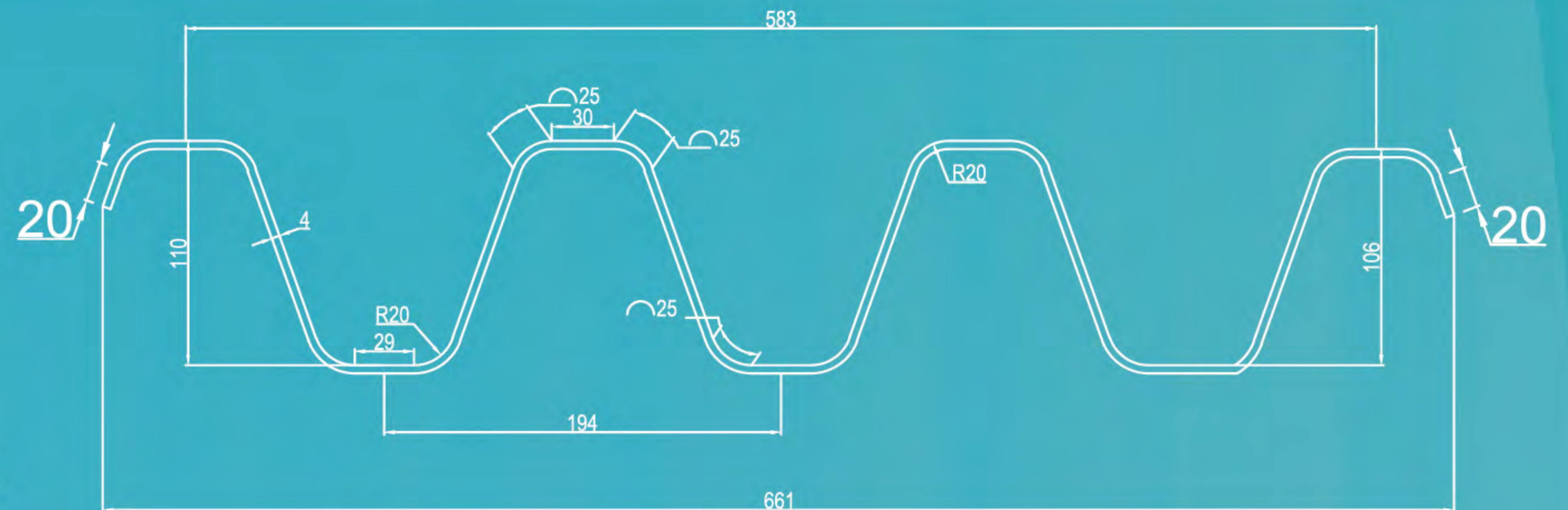
### Application Areas of DURADECK®

- ▶ Cement
- ▶ Electronics
- ▶ Chemical
- ▶ Cooling towers
- ▶ Desalination plants
- ▶ Military
- ▶ Mining
- ▶ Marine /port facilities
- ▶ Metal processing
- ▶ Power generation facilities
- ▶ Galvanizing/plating
- ▶ Food/beverage
- ▶ Fertilizer
- ▶ Waste treatment
- ▶ Salt
- ▶ Pulp/paper
- ▶ Textile
- ▶ Rendering facilities for poultry and meat industry

# DURADECK®

## PRODUCT DESCRIPTION

FRP/ GRP DECK PANEL



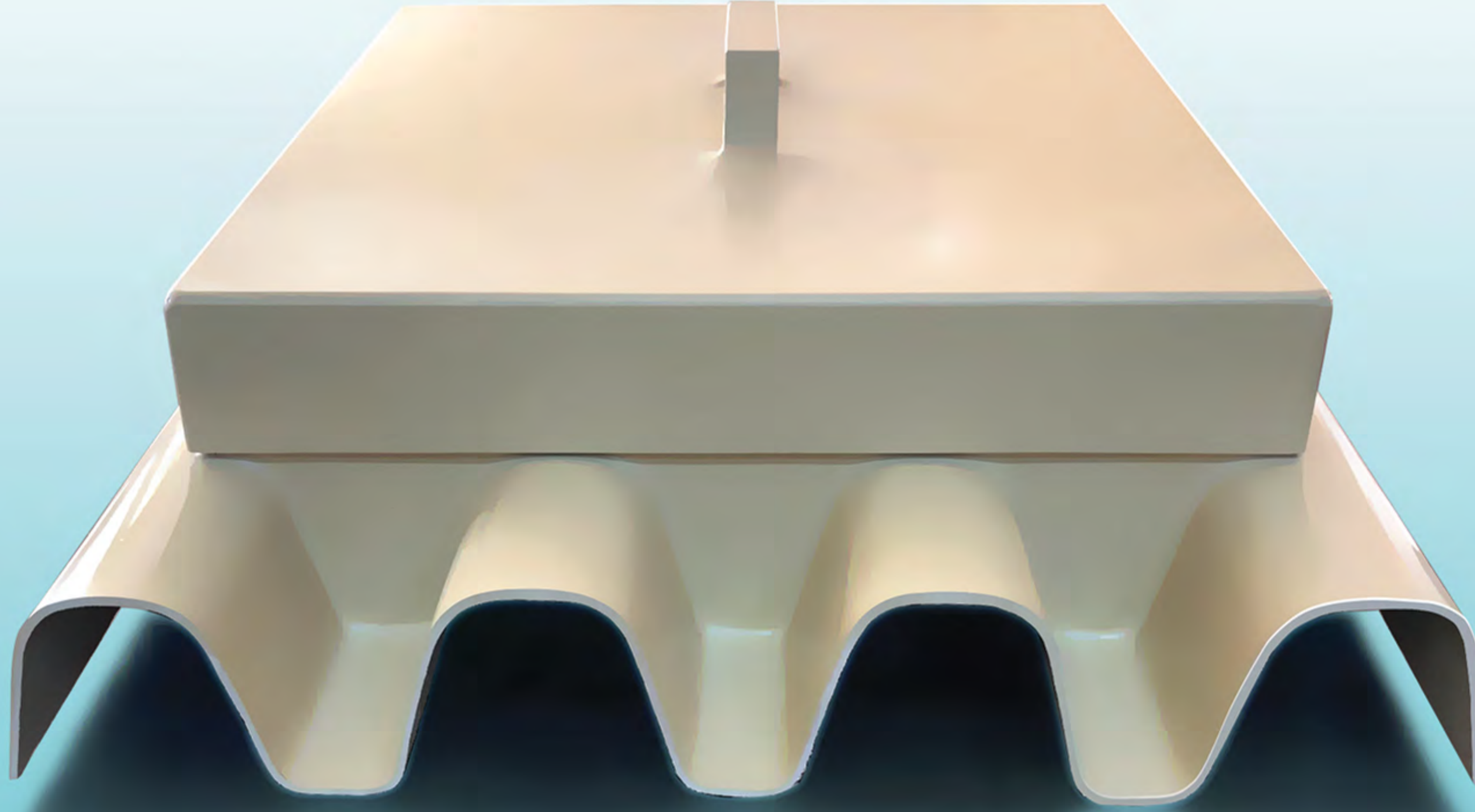
## TECHNICAL SPECIFICATIONS

Properties		Test Method	Value / Tolerance	
Physical	Profile code 1222-01	POLSER	Dimensional tol. %10	
	Thickness mm	Universal	4 ± %10	
	Surface properties	POLSER	Top Surface ISO NPG Gel-coat (Optional)	
	Color RAL 1001 Beige	ISO 12647-2	DE* ≤ 1,0	
	Nominal weight	TS EN 1013	14	kg/m <sup>2</sup> corrugated
	Density g/cm <sup>3</sup>	ISO 1183	1,6 - 1,7	
	Water absorption %	ISO 62	max. 0,4	
	Glass Fiber Content %	EN 1172	min. 18	
	Accoustic attenuation factor, R'w	POLSER	5 dB	
	Fire Resistance	BS 476	Class 0 (Optional)	
	Maximum Span	Universal	4000 mm	
UV Resistance	ASTM G154 cycle2 QUVB 313 lamp irradiance 0,71 Wm <sup>2</sup> 60°C 4h, condensation 50°C 4h	EN ISO 16474-3	At the end of 1000 hours of test ΔE must be lower than ΔE ≤ 20	
Thermal	Thermal Conductivity W/mK°	DIN 51046	0,224	
	Coefficient of Thermal Expansion (m/m/°C)	DIN 53752	30 x 10 <sup>-6</sup>	
	Term Service Temperature °C	Universal	- 40 + 120	
Mechanical	Tensile strength Mpa	EN 527	90 - 120	
	Tensile Modulus of Elasticity Mpa	EN 527	3000 - 5000	
	Tensile Elongation at break %	EN 527	1,25 - 2,5	
	Flexural Strength Mpa	EN 178	100 - 140	
	Flexural Modulus Mpa	EN 178	5 000 - 8000	
	Barcol Hardness	EN 59	40 - 55	
Chemical resistance	Acetic Acid %5, 25°C	Hydrochloric acid, %10, 30°C		
	Nitric acid %10, 30°C	Sulfuric Acid %30, 50°C		
	Ethyl alcohol %25, 25°C	See Water, 40°C		
	Sodium chloride water solution, 40°C	Chlorine, Gas, 50°C		
	Silicone Oil, 55°C	Benzoic Acid saturated water solution, 40 °C		
	Carbon monoxide, Gas 55°C	Stearic Acid, 40°C		

# DURADECK®

## ACCESSORIES

FRP Hatch Covers  
Corner Flashings  
Ridge Cappings



**POLSER®**