



Dimensional Tolerances

Unit Weight : ± %10

Average Thickness: ± %15

Width : \pm %1

Length : Up to 2.5 m 0 mm + 20 mm

> 2.5 m 0 + % 0.8

Common Applications:

- Industrial buildings, factories and warehouses,
- Industrial buildings which have exposure to the corrosive fumes; salt factories, fertilizer factories, paper mills, chemical plants, petrochemical plants
- All types of farm buildings
- Cladding and louvers of cooling towers
- Applications where a light weight roofing sheet is requried; sports arenas, patios, etc,
- As over roofing sheets for renovation of old metal or asbestos roofing











Technical Specifications

Standard Colours : RAL 5015 - 7035 - 8011 8012 - 9016

Surface (top/bottom) : Standart, protective film,
U.V resistant film,

U.V resistant gelcoat.

■ Standard thickness : 1.50 - 1.80 - 2.00 mm (up to 3.00 mm)

■ Standard length : According to the requirement

(max.13 mt. due to transportation limits)

■ Specific weight : 1.50 - 1.65 gr/cm³ ■ Service temperature : - 40°C, +120°C

■ Bending strength : ≥ 100 Mpa (ISO 14125)

■ Tensile strength : ≥ 50 Mpa (ASTM D 638)

■ Modulus of elasticity : ≥ 4500 Mpa (ISO 14125)

■ Thermal linear expansion coeff: 2.7 x 10⁻²°C⁻¹

■ Water absorption : % 0.2

■ Barcol hardness : > 40 Barcol

■ Self ignition temperature : 487 °C

■ Heat transmission coeff : ~5 W/m² °K



DURASER ST:

Standart Duraser sheets which are produced with orthophtalic polyester resins.

DURASER M:

Duraser sheets which are produced with orthophtalic polyester resins. The top surface is coated with Melinex 301 polyester film.

■ DURASER MX:

Duraser sheets which are produced with orthophtalic polyester resins. The top surface is coated with Melinex 389 high UV resistant polyester film.

■ DURASER JUV:

Duraser sheets which are produced with orthophtalic polyester resins. The top surface is coated with high UV resistant ISO NPG gelcoat.

■ DURASER JUV PLUS:

Duraser sheets are produced with orthophtalic polyester resins. The top and bottom surfaces are coated with UV resistant ISO NPG gelcoat.

DURASER FR:

Duraser sheets which are produced with fire retardant resins and protected by fire retardant gelcoat on top surfaces.

DURASER ACOR:

Duraser sheets which are produced with isophtalic resins and protected by ISO NPG gelcoat on top surfaces against wheathering.

DURASER ACON:

Duraser sheets which are produced with orthophtalic polyester resins. The top surface is protected by polyester film. Bottom surface is coated by a special type of felt which can absorb the condensation that might develope under the sheet.

	Surface Coating	UV Resistance	Fire Grade	Corrosion Resistance
Duraser ST	_	Good	B2 DIN 4102	Good
Duraser M	Melinex 301 Film	Good	B2 DIN 4102	Good
Duraser MX	Melinex 389 Film	Very Good	B2 DIN 4102	Good
Duraser JUV	Gelcoat	Very Good	B2 DIN 4102	Good
Duraser JUV Plus	Gelcoat / Gelcoat	Very Good	B2 DIN 4102	Good
Duraser FR-B2	Gelcoat	Very Good	B2 DIN 4102 Teil 7	Good
Duraser FR-C3	Gelcoat	Very Good	Class 3 BS 476/7	Good
Duraser FR-C1	Gelcoat	Very Good	Class 1 BS 476/7	Good
Duraser FR-M2	Gelcoat	Very Good	M2 No RA01-153	Good
Duraser FR-CA	Gelcoat	Very Good	FS<25 ASTM E-84	Good
Duraser ACOR	Gelcoat	Very Good	B2 DIN 4102	Very Good
Duraser ACON	Melinex 301 Film	Good	B2 DIN 4102	Good

Durapan GRP Sandwich Panels

Durapan sandwich panels combines the advantages of Duraser GRP sheets as high performance skins and 40 kg/m3 PU/PIR foams for superior heat insulation.



Product Structure

- Top and bottom GRP surfaces coated with Diamond Shield high UV protection layer
- Top and bottom GRP sheets contain woven roving reinforcement for high mechanical strength.
- The density of PU/PIR is 40 gr/cm3.

Durapan Product Types

(As per TS EN 13501 flame retardancy standart)

- Durapan ST ES3d0 PUR 40 mm
- Durapan FR CS3d0 PIR 40 mm
- Durapan ST ES3d0 PUR 50 mm
- Durapan FR CS3d0 PIR 50 mm

Durapan Profile Types

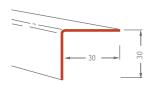
- 4 Ribs 35/1000
- 5 Ribs 32/1000



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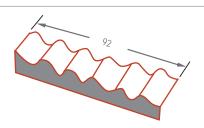
Accessories

All types of accessories are available for Duraser sheets ridge capping, corner piece and gutters are produced with a gelcoated surface. When requested the ridge capings might be produced at any required angle, color and as translucent. Gutters and corner pieces might be produced according to the required dimensions.



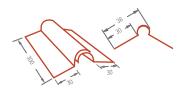
Corner Piece

These roofing accessories are available in required dimensions, angles and in various colors.



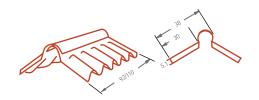
Flat /corrugated closure piece

These accessories can be produced according to required dimensions and angles which match to translucent or opaque roofing sheet profiles.



Flat ridge capping

This type of ridge capping can be used with every type of profile and at every roof slope.



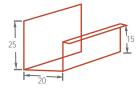
Corrugated ridge capping

This type of ridge capping can be produced for every sheet profile and can be used at any roof slope.



Trapezoidal / corrugated ridge capping

This type of ridge capping can be produced for every sheet profile and it has a fixed angle.



Gutter

Gutters might be produced at every color and length. The inner weathering surface is coated with ISO NPG gelcoat.

Washers matching the color of Duraser Sheets



Self-drilling screw

EPDM foam filler





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1. Cutting

Sheets can be cut using power or hand saws. Saw blades should be fine-toothed carbide type or a safety fabric reinforced abrasive disc. Face shields and appropriate safety equiment should be worn by all operators.



2. Drilling

All sheets should be pre-drilled not less than 4 cm from the sheet end and the holes drilled a minimum of 1.6 mm larger than the fastener diameter.

3. Fastening

When possible, fasteners should be installed at high point of the corrugation with spacings of 15 cm to 20 cm on the center at sheet end and 30 to 40 cm on center for immediate purlins and siding applications.



4. Sealing

Seal end and side laps with a flexible non-hardening UV-stabilized butly caulk.



5. Installation

Under no circumstances should sheets be allowed to support undistributed loads such as the weight of a human body. Use roof ladders for installation. Clean all waste material on the sheets after installation is complete.

IMPORTANT: Necessary care has been given in order to provide an accurate information. Yet Polser FRP Panels Inc. does not accept any responsibility for the accuracy of the information given in this document. Polser retains the right to make any changes on the information given in this brochure without prior acknowledgement.



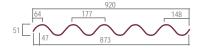


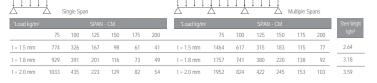


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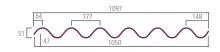
Profile Types and Load Span Tables







CODE 603 Duraser 177 / 51 P6 Fiber cement profile



		Single Spa	an							11.		Multiple S	pans	
*Load kg/m²			SPAN	- CM			*Load kg/m			SPAN	I - CM			Sheet Weig
	75	100	125	150	175	200		75	100	125	150	175	200	kg/m²
t = 1.5 mm	774	326	167	98	61	41	t = 1.5 mm	1464	617	315	183	115	77	3.15
t = 1.8 mm	929	391	201	116	73	49	t = 1.8 mm	1757	741	380	220	138	92	3.79
t = 2.0 mm	1033	435	223	129	82	54	t = 2.0 mm	1952	824	422	245	153	103	4.27



CODE 806 Duraser 38/148



<u> </u>	<u> </u>		·À		<u></u>	/lultiple Sp	oans							
*Load kg/m²			SPAN	- CM			*Load kg/m²			SPAN	- CM			Sheet Weight
	75	100	125	150	175	200		75	100	125	150	175	200	kg/m²
t = 1.5 mm	630	265	136	78	49	33	t = 1.5 mm	1191	502	258	149	93	62	2.79
t = 1.8 mm	754	319	163	94	59	40	t = 1.8 mm	1427	602	308	178	113	75	3.36
t = 2.0 mm	838	353	181	104	67	44	t = 2.0 mm	1586	668	342	198	124	84	3.78

CODE 950 Duraser SPG Profile



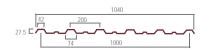
\ \ \ \ \	∆ s	ingle Spa	n			<u> </u>	\ \ \ \ \	Multiple Spans							
							*Load kg/m²								
	75	100	125	150	175	200		75	100	125	150	175	200		
t = 1.5 mm	325	137	70	40	26	17	t = 1.5 mm	615	259	132	76	49	32		
t = 1.8 mm	390	165	84	49	30	21	t = 1.8 mm	738	311	159	92	58	39		
t = 2.0 mm	433	183	93	54	34	23	t = 2.0 mm	819	346	177	103	65	43		

CODE 601 Duraser P8 Profile



	<u> </u>	Single Spa	ın					Δ		111	- N	fultiple Sp	oans						
*Load kg/m²			SPAN -	- CM			*Load kg/m²			SPAN	- CM			Sheet Weight					
	75	100	125	150	175	200		75	100	125	150	175	200	kg/m²					
t = 1.5 mm	310	130	66	39	24	17	t = 1.5 mm	585	247	126	73	46	31	2.84					
t = 1.8 mm	372	156	81	47	29	19	t = 1.8 mm	704	297	151	87	55	37	3.41					
t = 2.0 mm	414	173	89	51	32	21	t = 2.0 mm	782	330	169	98	61	41	3.85					

CODE 827 Duraser 27/200 G



<u> </u>	<u> </u>	7	Ż		À	Multiple Sp	oans							
*Load kg/m²		SPAN - CM						*Load kg/m² SPAN - CM						
	75	100	125	150	175	200		75	100	125	150	175	200	kg/m²
t = 1.5 mm	339	143	73	42	27	18	t = 1.5 mm	641	270	138	80	50	33	2.84
t = 1.8 mm	407	171	88	50	31	21	t = 1.8 mm	769	324	166	96	60	41	3.41
t = 2.0 mm	451	190	97	56	35	24	t = 2.0 mm	854	360	185	107	68	45	3.85



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Certifications _



Turkish Standarts Institute Quality Certificate TS-EN 1013-2



Impact Resistance Certification ACR(M) 001-200 Class B



Fire Resistance Certification DIN 4102:B2



Fire Resistance Certification No RA01-153: M 2



CONSULTANCY · TESTING Fire Resistance Certification BS 476-7 Class 3 SAB3 Class 1 SAA

