DURASHIELD®

Corrugated Industrial PVC Sheet

DURASHIELD corrugated PVC panels combine high structural performance with excellent chemical and flammability resistance.

It is a heavy-duty, lightweight, corrosion-free alternative to corrugated metal roofing. Ideal for harsh environments, DURASHIELD is used in industrial construction in mines, petroleum refineries, seaports, and livestock facilities.

Wide-span structures, cold bending, heavy loads, and impacts are just a few of the engineering challenges DURASHIELD meets. Various industrial profiles are available, easy to install and maintain.

Typical Applications

Construction
- Coastal construction
- Public buildings
- Parks
- Sports
- Recreation facilities

Industry
- Chemical and pharmaceutical plants
- Ports
- Pulp and paper plants
- Power stations
- Mines
- Metal processing facilities

Agriculture
- Greenhouses
- Cow sheds
- Henhouses
- Pigpens, barns and machinery sheds

Chemical Resistant

High Fire Rating

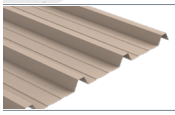
Corrosion-Free

Durable Against Impact

UV Protection

Low Maintenance

Colours

Colour		LT [%]
	White Opaque	0
	Beige	0

* Additional colours are available under minimum quantities.

* Color application: white color is recommended for roofs; for walls - white or beige are recommended.

Profile Availability

MetalMatch™ Profile Matching Technology DURASHIELD can ideally integrate with almost any roof type, using Palram's proprietary MetalMatch™ profile matching technology, which allows it to be matched to existing or new corrugation profiles. DURASHIELD is available in over 550 existing profiles.

Weather and UV Resistance

DURASHIELD maintains its physical properties and attractive appearance despite exposure to all types of climatic conditions. These include harmful UV radiation, humidity, rain and snow. DURASHIELD also provides weather protection over a large temperature range, from -20°C to 50°C. DURASHIELD should not be used in the vicinity of chimneys where soot may fall on the sheets.

- Do not install DURASHIELD over existing roof, without prior consultation with the manufacturer PALRAM.
- For contact details please refer to PALRAM's official website at www.palram.com.

Profile Range

Profile	Thickness	Width
Industrial Rib	2.0 mm	Width: 1063 mm Coverage: 1000 mm
Industrial Wave	2.0 mm	Width: 1070 mm Coverage: 963 mm
Wide Greca	1.3 mm	Width: 1190 mm Coverage: 1064 mm

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm³	1.4
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MP	°C	61 - 67
Service Temperature Range			°C	-20 to +50
Thermal conductivity	C-177		W/m K	0.16
Coefficient of linear thermal expansion	D-696		cm/cm°C	6.3×10^{-5}
Impact strength	ISO 6603/1	2 mm sheet	J	45 - 60
Tensile strength at yield	D-638	10 mm/min	MPa	50 - 66
Tensile strength at break	D-638	10 mm/min	MPa	39 - 53
Elongation at yield	D-638	10 mm/min	%	3
Elongation at break	D-638	10 mm/min	%	>80
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,900
Flexural strength	D-790	1.3 mm/min	MPa	90 - 100
Flexural modulus	D-790	1.3 mm/min	MPa	2,700
Rockwell hardness	D-785		R Scale	105 - 115

* ASTM method except where noted otherwise..

Flammability

DURASHIELD complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Australian standard early fire hazard test results

Method	Test	Range	Result
AS/NZ 1530 - 3	Ignitability index	0 - 20	8
	Spread of flame index	0 - 10	0
	Heat evolved index	0 - 10	1
	Smoke developed index	0 - 10	7

DURASHIELD Product Range

Product	Description
DURASHIELD Opaque	Opaque sheet inherently UV resistant, suitable for all applications
DURASHIELD High Impact	With increased impact resistance and durability

* For more detailed information please contact your Palram distributor.

Warranties only apply to installations and maintenance that follow Palram installation instructions and specifications.

PALRAM

www.palram.com/au

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