



# PALRUF® 5105

## Corrugated PVC Sheet



AGRICULTURE



CONSTRUCTION



DIY



### Overview

High performance, reduced cost. PALRAM's new PALRUF 5105 sheet is a roofing solution designed to offer unmatched strength with significant economic benefits for large scale construction projects. Thanks to optimized corrugation the sheet can carry high loads at purlin spans of over 1.5 meters. This brings a direct economic advantage, saving on purlins, screws and fastening accessories.

PALRUF corrugated PVC sheet is an all-round durable roofing solution, combining excellent resistance to chemicals, corrosion and impact. PALRUF endures harsh chemical environments where other roofing materials will quickly corrode, making it ideal for roofing, siding and cladding applications in industry, agriculture and construction.

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

### Main Benefits

- Excellent chemical resistance
- Weather and UV resistant
- High fire resistance
- Will not rust or corrode
- High impact - Resists breakage
- Easily handled, quickly installed
- Requires minimum maintenance

### Cost effective features

- 15%-20% lighter than alternative solutions thanks to its efficient design.
- 30%-40% reduce of overlap area compared to other industrial metal or thermoplastic panels.
- 20%-30% additional span between purlins while maintaining the same structural strength. Significant saving construction materials costs.
- Up to 50% savings on screws and washers comparing to other metal or PVC industrial panels.
- 30%-40% faster installation. Less screws and accessories means more efficient work.

### Typical Applications

#### Construction

Coastal construction, public buildings, parks, sports and recreation facilities.

#### Industry

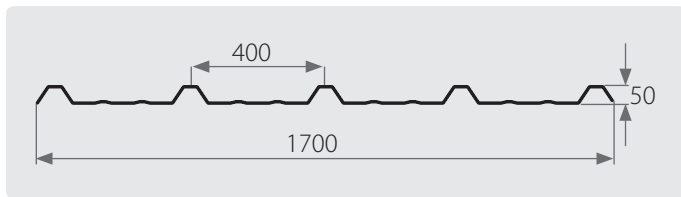
Chemical and pharmaceutical plants, ports, pulp and paper plants, power stations, mines, metal processing facilities.

#### Agriculture

Greenhouses, cow sheds, henhouses, pigpens, barns and machinery sheds.



## Profile Drawing



## Weather and UV Resistance

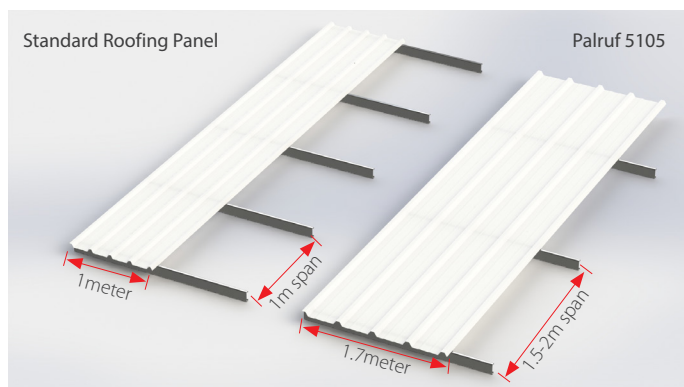
PALRUF maintains its physical properties and attractive appearance despite exposure to all types of climatic conditions. These include harmful UV radiation, humidity, rain and snow. PALRUF also provides weather protection over a large temperature range, from -20°C to 50°C. PALRUF should not be used in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

## Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm <sup>3</sup>	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 x 10 <sup>-5</sup>
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.

## Added Value



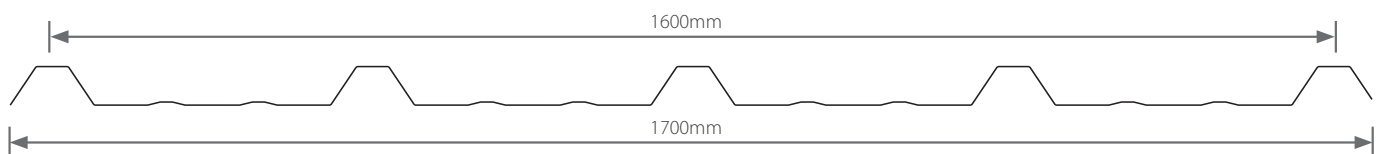
## Flammability

PALRUF is self-extinguishing and 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.

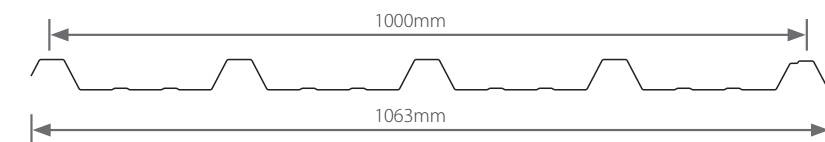
Method	Classification*
DIN 4102	B-1
BS 476/7	Class 1
NSP 92501, 5	M-1
FMRC 4870	Class 1

\* For more detailed information please contact your Palram distributor.

Palruf 5105



Standard Roofing Panel



### PALRAM H.Q.

Tel: +972 4 8459900  
Fax: +972 4 8444012  
palram@palram.com

### PALRAM EUROPE

Tel: +44 1302 380777  
Fax: +44 1302 380788  
sales.europe@palram.com

### PALRAM AMERICAS

Tel: 610 285 9918  
Fax: 610 285 9928  
palramamericas@palram.com



600950 - 03.2019

In as much as Palram Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Palram Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. Palram Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local Palram Industries supplier to ensure that you have obtained the most up to date information.

©1996 Palram Industries Ltd. | PALRUF is a registered trademark of Palram Industries Ltd.

