

Clearly, the best news in roofing systems

Profiled panel with such versatility, strength and reliability, imagine what profiled panel could do for your projects

What makes profiled panel better: some technical facts

Spanning - the clear benefit

The structural strength of profiled panel with its sandwich construction, offers you the clear advantage of **fewer purlins and battens, less fixing time** and the possibility of **eliminating purlins altogether.**

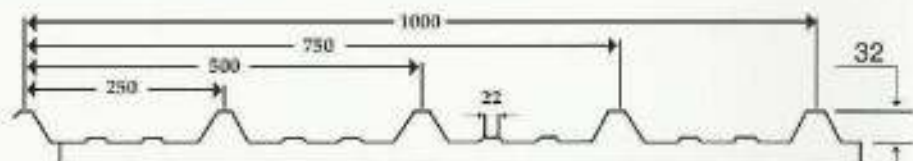
The underside face of the panels is totally pre-finished to the nominated colour, forms continuous uninterrupted lines and is lightly profiled to accentuate length. Standard joint system is by a purpose designed male female joint.



Weight

the following Table demonstrates just how you can take design advantage of the lightweight properties of profiled panel considering 26 gauge GI Top & Bottom skins.

Product	Material Mass
Profiled panel	in kg/m ² of
Thickness	panel
50 mm	9.9
75 mm	10.4
100 mm	10.9
125 mm	11.4
150 mm	11.9



Dimensional Data

Cover : 1000
Design Pitch : 32/250
Length : To customer requirements
Core Thickness : 50, 75, 100, 125, 15 mm
Colours : Off White

Water absorption

High resistance to the adverse effects of moisture is a feature of the expanded polystyrene (EPS) insulation of notified panel EPS has excellent breathability and allows evaporation. It has no capillary action and its core is sealed from internal vapour by a skin of impervious metal cladding.

Accessories

With profiled panel you can plan on no-fuss fixing and fittings from the design stage. Profiled panel may be readily used with modular windows and doors, and conventional building materials for fascia, gutters, plumbing, electrical and security fittings.

Conventional building materials such as ridge capping and flashing should be manufactured and installed in accordance with the relevant standards and the Manufacturer's installation instructions. Accessories can be obtained direct from manufacturers.

Durability

Profiled panel's long-lasting external surface is protected with specially formulated paint system coatings over galvanized steel, the final layer being a bonded polyester pigment.

Handling

Normal care is all that is required. When stored externally, should be kept off the ground and protected from rain, to avoid water staining or discoloration.

Technical support

Manufacturer technical advisory staff have all the answers to your roofing systems problem. Just telephone, call in or write for technical data sheets or prompt, practical assistance and sound advice.

SPAN CHART						
UNIFORM LIVE LOAD IN KN/M ² SPAN IN METER						
Panel Thickness	Condition	1.0	1.2	1.5	2.0	2.5
50	△ △	2.4	1.58	1.2	0.9	0.64
	△ △ △	2.9	1.96	1.5	1.2	0.93
75	△ △	2.6	1.8	1.48	1.2	0.9
	△ △ △	3.4	2.6	1.85	1.8	1.2
100	△ △	2.9	2.46	1.65	1.5	1.25
	△ △ △	3.8	2.9	2.3	1.9	1.8

Condition = Top / Bot Skin 26G GI Sheet

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Steel Panel LLC

From here, it's a roof



From here, it's a ceiling

**From anywhere,
Profiled Roofing System is a brilliant idea.**

The most versatile insulated roofing system under the Omani sun.

PROFILED PANEL PP

A New Standard for Roofing Systems

Profiled panel is a unique system that combines roof, insulation and prefinished ceiling in a sandwich panel.

It incorporates a GI 26G prepainted steel outer roof profile, a polystyrene core and a steel inner skin with a tongue and groove rollformed edge, prepainted with polyester finish. Profiled Panel is also available in aluminium top skin and aluminium foil as inner skin.



Profiled panel a product of **Steel Panel Manufacturing**, combines function and structure to present a building material that keeps the interior environment comfortable.

And it also enables designers to take full advantage of greatly increased panel strengths and reduce the number of internal supports needed.

Profiled panel has been developed following extensive climatic conditions and it is not only tough, profiled panel is light weight incorporating highly effective materials which, when coupled with deflection technology minimise noises.

Application

Functioning as roof cladding and wall sheet, profiled panel is especially recommended for use in large public areas with controlled environments, such as shopping centres, airport lounges, clean rooms, food processing complexes and bulk storage facilities.

Suitable for industrial and commercial wall cladding and domestic roofing, its potential uses are next to limitless. It's a logical alternative if you are considering asbestos replacement cladding for power stations, warehouses or factories.

And you can capitalise on its many benefits by using it in conjunction with Steel Panel new wall paneling Cool Panel applications from commercial and domestic environments to sporting and recreational facilities. When you specify Profiled Panel you have made an effective decision to rely on the benefits to you and your client of the next generation of cladding.

Safety

Tests for early fire hazard properties on sandwich panel resulted in the following index values, according to the Australian Standard 1530 Part 3.

Ignitability	
Index _____	0
Spread of flame	
Index _____	0
Heat evolved	
Index _____	0
Smoke developed	
Index _____	0

In Toxicity Considerations of Combustion Products from Cellular Plastic, P.R. Nicholl and K.G. Martin, of the CSIRO Division of Building Research, state that "for foamed polystyrene the potential toxic hazard appears to be no greater than that for wood".

Among the many benefits profiled panel offers are :

- Economy, Compare the low cost and high quality of PP with a conventional ceiling, insulation and roof combination.

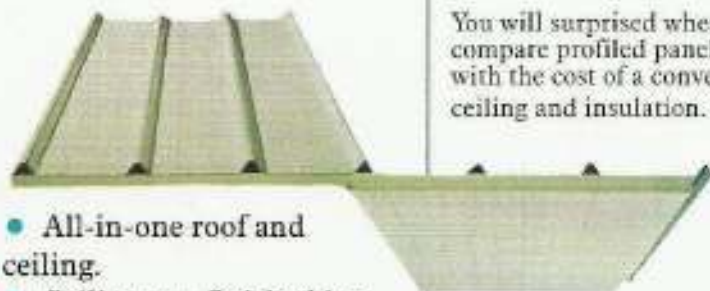


- Clean lines, resulting from the lower number of span supports required.



- Shorter construction time.

- Efficient thermal insulating properties, helping to minimise air conditioning costs.



- All-in-one roof and ceiling.
- Ceiling pre-finished in a light colour that requires no painting, offers lower lighting costs and a more spacious feel.



- One-step, simple installation without the need for follow-on trades to keep your project on schedule.

Insulation

Insulation properties are high on the list of benefits offered by profiled panel combining thermal comfort with energy savings.

INDICATIVE HEAT TRANSFER COEFFICIENTS

'U' values, for various panel thicknesses. (Wm²K) at 10C

100	0.38
75	0.51
50	0.76

The economical alternative

Profiled panel manufactured in a continuous process, uses a core only one-third the price of equivalent alternative materials.

You will be surprised when you compare profiled panel economy with the cost of a conventional roof, ceiling and insulation.



- High durability
- Easy, lower-cost maintenance with long-lasting finish.
- Waterproofing, through precise mechanical overlapping.

Availability

Machinery dedicated to the manufacturing of profiled panel enables an immediate supply of the off white colour coated panel.

