

M Metal - Committed to deliver

We offer high-quality and reliable products and services
at competitive price

We secure quality products
through developing strong alliances with international companies like Yieh Phui Enterprise Co., Ltd in Taiwan and Fielders Australia Pty Ltd

We deliver on time
as a result of our investments in staff training, up-to-date technology and running a local manufacturing facility

We back up our commitment
with a team of experienced and professional staff who include project managers, on-site workers, quantity surveyors and Auto-CAD draughtsmen

We adhere to good corporate governance
and best work place practices with a strict Safety, Health and Environment (SHE) policy

We are committed
to listening, partnering and building long-term relationships with our stakeholders who include architects, engineers, and professional consultants.
Hence our tagline : You Inspire, We Deliver



Formed with
ColorLume®
Galvalume®



Locally produced &
custom-cut using
modern machinery



FPC & ISO
9001-2008
Certified

Galvalume® is a trade mark of BIEC International Inc (USA) licensed to YP Enterprise Co. Ltd.
ColorLume® is a registered trade mark of Yieh Phui Enterprise Co., Ltd

We are aware of the importance of having shelter over our heads.
We also understand overheads.
Talk to us about our competitive pricing and services.
We are standing by to receive your call.

M METAL PTE LTD

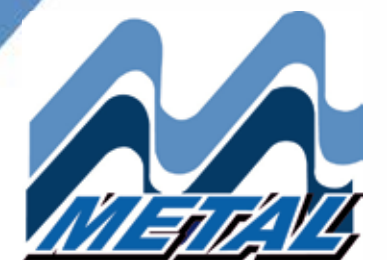
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Reprinted June 2016

You Inspire, **We Deliver.**

**MODERN
ROOFING &
WALLING
SYSTEMS**



M Metal - a game changer

M Metal is a Singapore-based manufacturer of high quality steel and non-steel roofing and walling products.

We started the company in 2007 in response to what we saw was a growing industry need for a responsible supplier, which believes in the value of forging partnerships with stakeholders in order to deliver innovative, reliable and customized solutions. It is our breadth and depth of specialized knowledge, combined with our stakeholders' awareness of their client needs, which results in a win-win collaboration.

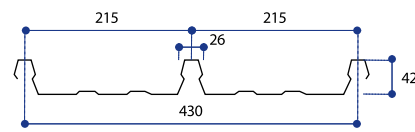
Our sense of responsibility extends to workplace safety. We strongly believe that good safety equates good business. Through regular training sessions, we make sure that our workers, and also those of our contractors, are able to do a good job safely.

Staffed by experienced professionals with an in-depth knowledge of the industry and who are motivated by the company's vision - to be the industry's preferred building solutions provider from concept to completion - we aim to be a game-changer in Singapore's building industry.

Profiles - the specifications

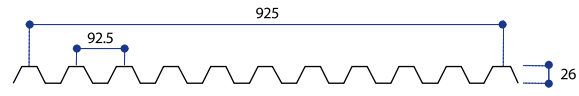
Standard Thickness	0.54mm	Non-Standard	0.66mm
Profile Height	42mm	Effective Cover	430mm
Steel Grade	G550	Coating Class	AZ 200

M-Clipp 430



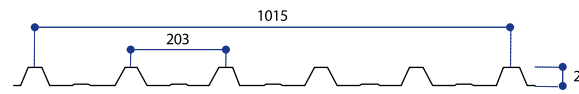
Standard Thickness	0.48mm	Non-Standard	0.54mm
Profile Height	26mm	Effective Cover	925mm
Steel Grade	G550	Coating Class	AZ 200

M-Span 925



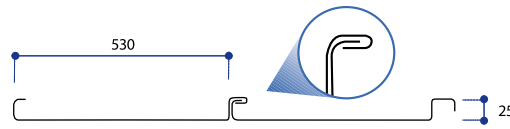
Standard Thickness	0.48mm	Non-Standard	0.54mm
Profile Height	28mm	Effective Cover	1015mm
Steel Grade	G550	Coating Class	AZ 200

M-Clad 1015



Standard Thickness	0.61mm	Non-Standard	N.A.
Profile Height	25mm	Effective Cover	530mm
Steel Grade	G300	Coating Class	AZ 200

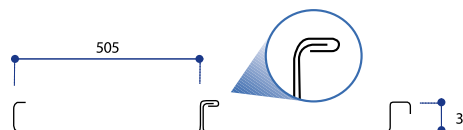
M-Seam 530



* Cover width 320mm is now available
* Also available in Aluminium

Standard Thickness	0.61mm	Non-Standard	N.A.
Profile Height	38mm	Effective Cover	505mm
Steel Grade	G300	Coating Class	AZ 200

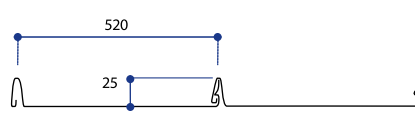
M-Seam 505



* Cover width 300mm is now available
* Also available in Aluminium

Standard Thickness	0.61mm	Non-Standard	N.A.
Profile Height	25mm	Effective Cover	520mm
Steel Grade	G300	Coating Class	AZ 200

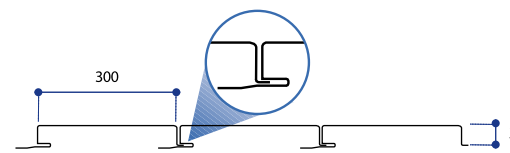
M-Snap 520



* Cover width 315mm is now available

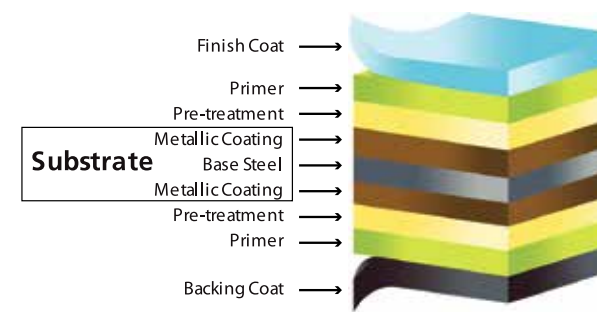
Standard Thickness	0.61mm	Non-Standard	N.A.
Profile Height	25mm	Effective Cover	300mm
Steel Grade	G300	Coating Class	AZ 200

M-Panel 300



* E-Panel 300 is available for hoarding

Our Substrate - the underlying difference



The substrate is made from AZ 200 alloy coated steel sheets. AZ is an alloy comprising 55% Aluminium, 43.5% Zinc and 1.5% Silicon. AZ 200 refers to the coating mass in g/m² on both sides.

Material performance for the manufacture of profiled roof and wall cladding conforms to Singapore Standard 370 : 1994 Specification for Metal Roofing.

Warranty is available upon request, subject to standard terms and conditions.

TYPICAL PROPERTIES

Pencil Hardness (F & harder)
Impact Test
Erichsen Test
Bending Test
Abrasion Resistance, Falling Sand
Solvent Resistance

STANDARD

ASTM D 3363
ASTM D 2794
ASTM E 643
ASTM D 4145
ASTM D 968
ASTM D 5402

CORROSION & WEATHERING

Salt Spray Test
Weathering Test
Chemical Resistance Test

STANDARD

ASTM B 117 / JIS K5600-7-1
QUV ASTM G 154 / JIS K5600-7-8
Spot Test ASTM D 1308

ColorLume® paint systems PVDF & SMP

Finish Coat *

• **PVDF** : High performance Polyvinylidene Fluoride (abbreviated PVDF or PVF2, or called Fluorocarbon) with full strength 70% of KYNAR® 500 or HYLAR® 5000 premium resin is used. 20µm nominal dry film thickness.

• **SMP** : Custom formulated Silicon Modified Polyester (SMP) paint system. 20µm nominal dry film thickness.

Primer

Anti-corrosion inhibitive polyurethane primer. 5µm nominal dry film thickness.

Pre-treatment

With proprietary conversion film to achieve excellent adhesion between the steel surface and paint finish.

Substrate

AZ 200 alloy coated steel. AZ comprises 55% Aluminium, 43.5% Zinc and 1.5% Silicon (by weight) in accordance to ASTM A792M. Minimum coating mass, 200 g/m² on both sides.

Pre-treatment

With proprietary conversion film to achieve excellent adhesion between the steel surface and paint finish.

Primer

Anti-corrosion inhibitive polyurethane primer. 5µm nominal dry film thickness.

Backing Coat

Custom formulated polyester coating, Light Grey for PVDF and Egret White for SMP. 10µm nominal dry film thickness.

* For colour selection, please refer to our colour chart on the opposite page. Specular gloss to finish is 25-30 G.U. (gloss unit is measured at 60° reflection angle in accordance to ASTM D 523 / SS 5 Part E1 Performance Standard).

• Paint System and Warranty shall be supplied and endorsed by Akzo Nobel.

ColorLume® VF-20L PVDF 70/30 (Fluorocarbon)

A reliable 2-coat, 2-bake Fluorocarbon (PVDF) process with full strength 70% of KYNAR® 500 or HYLAR® 5000 premium resin as the top coat.

ColorLume® PVDF can resist city grime, solarisation, dirt staining and acid rain. Under these severe conditions in this region, ColorLume® VF-20L steel sheets are able to preserve its pleasing appearance and have excellent colour and gloss retention together with chalk resistance properties.

ColorLume® Silicone Modified Polyester (SMP)

It is a silicone-protected polyester coating specially designed for coated steel roofs and walls. It is an industry- standard that is superior to older polyester, acrylic and other paint technologies.

ColorLume® SMP is an economical long lasting and versatile paint solution for use in a wide variety of applications. It is resistance to the elements while maintaining its distinctive colours

Recommended application

ColorLume® is suitable for use in industrial environments, and is highly recommended for prestigious projects where demand for distinctive colour schemes (corporate colour) are desired. Other applications include large electronic factories, logistics buildings, airports, hospitals, warehouses, residential buildings and others.

Handling and Forming

In order not to damage the surface of the steel, it must be carefully handled during processing, forming, transportation and packaging. Any improper lubricants used will affect the function of the steel sheets and pollute their surfaces. It is therefore strongly recommended not to use such lubricants.

Colour Palette

At M Metal, we don't just put a roof over your head, we add a little colour to it as well. Whatever splash of colour you are looking for, we provide a full suite of colour options to suit your design needs.

Standard Colours

NEW Brilliant Blue* TDR: 15.70% TE: 0.86 SRI: 21.10	NEW Toffee Brown TDR: 16.70% TE: 0.86 SRI: 36.35	NEW Graphite Grey TDR: 12.00% TE: 0.86 SRI: 28.93	NEW Patina Green TDR: 18.30% TE: 0.86 SRI: 35.27
Ocean Blue TDR: 14.50% TE: 0.86 SRI: 21.11	Chocolate Brown TDR: 10.50% TE: 0.85 SRI: 23.22	Imperial Grey TDR: 19.60% TE: 0.87 SRI: 12.00	Victorian Green TDR: 10.20% TE: 0.87 SRI: 7.46
Shale Beige TDR: 33.47% TE: 0.85 SRI: 43.16	Cranberry Red TDR: 13.70% TE: 0.87 SRI: 26.82	London Grey TDR: 24.20% TE: 0.86 SRI: 23.72	Dew Green TDR: 26.30% TE: 0.86 SRI: 43.57
Milky White TDR: 67.30% TE: 0.87 SRI: 79.33	City Grey TDR: 48.67% TE: 0.86 SRI: 57.07	Slate Grey TDR: 22.80% TE: 0.86 SRI: 23.00	Turquoise TDR: 24.07% TE: 0.86 SRI: 36.90
Black TDR: 5.50% TE: 0.87 SRI: 2.36	<ul style="list-style-type: none"> All colours shown are printed as close as possible to ColorLume® pre-painted steel. Please contact M Metal Pte Ltd for actual colour plate sample. TDR (Today Daylight Reflectance) values are determined in accordance with ASTM E903. SRI (Solar Reflectance Index) values are derived from calculation in accordance with ASTM E-1980. TE (Thermal Emittance) values are determined in accordance with ASTM C-1371. 		

* Applied with organic resin. Standard Warranty Terms and Conditions apply.