

MULTICLAD

Versatile steel wall cladding

LYSAGHT MULTICLAD® is an economical and attractive wall profile suitable for a wide range of residential, commercial and industrial applications. It can be supplied in either custom cut or in stock lengths.

- Available in a wide variety of COLORBOND® steel colours and ZINCALUME® steel.
- Attractive trapezoidal multi ribbed profile.
- Quick and easy to install. This product is commonly used for walling in industrial, commercial and residential markets, garages, screens and fascias.
- Available in NSW - please check with local sales office for availability in other states.
- LYSAGHT MULTICLAD is not recommended for roofing.

Colour Range

MULTICLAD is available in an attractive range of colours in COLORBOND® factory pre-painted steel and in unpainted ZINCALUME® aluminium/zinc alloy coated steel.

ZINCALUME® steel provides a minimum of twice the life of conventional galvanised steel in the same environment.

The standard COLORBOND® offers a full range contemporary colours suitable for all building projects, but COLORBOND METALLIC® finish provides superior aesthetic qualities, and COLORBOND ULTRA® finish is intended for severe coastal or industrial environments.



Roofing & Walling Solutions



Rainwater Solutions



Structural Solutions



Fencing Solutions



Home Improvements



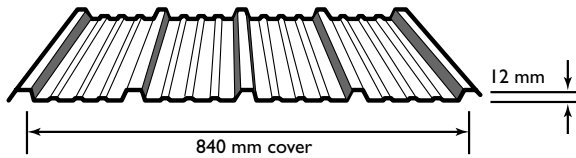
House Framing Solutions



Customer Support



LYSAGHT MULTICLAD



Masses

BMT (mm)	kg/m	kg/m ²	m ² /t
0.35 ZINCALUME® steel	2.74	3.26	306
0.35 COLORBOND® steel	2.80	3.33	300
0.42 ZINCALUME® steel	3.26	3.88	258
0.42 COLORBOND® steel	3.32	3.95	254

Material specifications

MULTICLAD is made from:

- ZINCALUME® aluminium/zinc alloy-coated steel complying with AS1397 —2001 G550, AZ150 (550 MPa minimum yield stress, 150 g/m² minimum coating mass);

The base metal thickness is 0.35 or 0.42 mm.

The COLORBOND® prepainted steel complies with AS/NZS 2728 -1997.

Lengths

Lengths are custom cut. Check maximum and minimum with your supplier.

Tolerances

Length: + 0 mm, - 15 mm

Width: + 4 mm, - 4 mm

Maximum support spacings (mm)

Type of span	BMT (mm)	
	0.35	0.42
Single span	1400	1700
End span	1800	1800
Internal span	1800	1800
Overhang	150	150

- The data are based on pressures (see wind pressures table).
- Table data are based on supports of 1mm BMT.

Maximum support spacings

The maximum recommended support spacings are based on testing in accordance with AS1562.1-1992, AS4040.0-1992 and AS4040.2-1992.

Wall spans consider resistance to wind pressure only.

The pressure considered is based on buildings up to 10m high in Region B, Terrain Category 3, $M_s=0.85$, $M_i=1.0$, $M_t=1.0$ with the following assumptions made:

Walls:

$C_{pi}=+0.20$, $C_{pe}=-0.65$, $K_1=2.0$ for single and end spans, $K_1=1.5$ for internal spans

These spacings may vary by serviceability and strength limit states for particular projects.

Fasteners

Where insulation is to be installed, you may need to increase the length of the screws given below, depending on the density and thickness of the insulation. When the screw is properly tightened:

- into metal:** there should be at least three threads protruding past the support you are fixing to, but the Shankguard must not reach that support;
- into timber:** the screw must penetrate the timber by the same amount that the recommended screw would do if there were no insulation.

Fasteners without Insulation

	Fixing to steel up to 0.75 mm BMT	Fixing to steel 0.75 to 3 mm BMT	Fixing to timber
Valley fixed	Type 17 screws with hex. washer head 10-12 x 20	Metal Tek screws with hex. washer-head 10-16 x 16	Type 17 screws with hex. washer-head SOFTWOOD: 10-12 X 30 HARDWOOD: 10-12 X 20

Valley: 4 fasteners†

Sheet coverage

Width of wall (m)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	30	40	50
Number of sheets	4	5	6	8	9	10	11	12	14	15	16	17	18	20	21	22	23	24	36	48	60

MULTICLAD® Limit state wind pressure capacities (kPa)

Span type	Fasteners per sheet	Span (mm)	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
Base metal thickness 0.35mm															
SINGLE	4	Serviceability	1.83	1.58	1.34	1.11	0.90	0.72	0.57	0.45	0.36	0.30	0.26	0.23	0.21
	4	Strength*	10.25	9.60	8.90	8.30	7.65	7.05	6.45	5.90	5.35	4.85	4.35	3.90	3.40
END	4	Serviceability	2.13	1.87	1.61	1.38	1.16	0.96	0.81	0.68	0.60	0.54	0.49	0.47	0.45
	4	Strength*	5.85	5.10	4.50	4.00	3.55	3.15	2.85	2.60	2.40	2.20	2.05	1.90	1.80
INTERNAL	4	Serviceability	2.19	2.13	2.07	1.99	1.91	1.80	1.68	1.52	1.34	1.14	0.93	0.71	0.49
	4	Strength*	7.10	6.50	5.95	5.45	4.95	4.50	4.10	3.80	3.55	3.30	3.15	3.00	2.85
Base metal thickness 0.42mm															
SINGLE	4	Serviceability	2.31	2.06	1.81	1.58	1.36	1.15	0.97	0.81	0.68	0.56	0.46	0.37	0.29
	4	Strength*	12.00	12.00	11.30	10.55	9.75	9.00	8.25	7.55	6.85	6.20	5.55	4.95	4.30
END	4	Serviceability	2.64	2.44	2.25	2.06	1.88	1.70	1.53	1.36	1.20	1.04	0.89	0.74	0.60
	4	Strength*	8.80	7.95	7.15	6.35	5.65	5.00	4.50	4.05	3.70	3.45	3.25	3.10	2.95
INTERNAL	4	Serviceability	2.72	2.55	2.39	2.23	2.06	1.89	1.72	1.54	1.35	1.17	0.98	0.79	0.60
	4	Strength*	9.15	8.30	7.45	6.65	5.90	5.30	4.75	4.35	4.05	3.80	3.65	3.55	3.50

* A capacity reduction factor of $\phi = 0.9$ has been applied to strength capabilities. Strength capacity is based on 1.00 mm support material.

Limit states wind pressures

The wind pressure capacities are based on tests conducted at BLUESCOPE LYSAGHT's NATA registered testing laboratory. Testing was conducted in accordance with AS 1562.1—1992 *Design and Installation of Sheet Roof and Wall Cladding—Metal*, and AS 4040.2—1992 *Resistance to Wind Pressure for Non-cyclonic Regions*.

The pressure capacities for serviceability are based on a deflection limit of $(span/120) + (maximum\ fastener\ pitch/30)$.

The pressure capacities for strength have been determined by testing the cladding to failure (ultimate capacity). These pressures are applicable when the cladding is fixed to a minimum of 1.0 mm, G550 steel.

For material less than 1.0 mm thick, seek advice from our information line.

Adverse conditions

If this product is to be used in marine, severe industrial, or unusually corrosive environments, ask for advice from our information line.

Metal & timber compatibility

Lead, copper, free carbon, bare steel and green or some chemically-treated timber are not compatible with this product. Don't allow any contact of the product with those materials, nor discharge of rainwater from them onto the product. Supporting members should be coated to avoid problems with underside condensation. If there are doubts about the compatibility of other products being used, ask for advice from our information line.

Maintenance

Optimum product life will be achieved if all external walls are washed regularly. Areas not cleaned by natural rainfall (such as the tops of walls sheltered by eaves) should be washed down every six months.

Storage and handling

Keep the product dry and clear of the ground. If stacked or bundled product becomes wet, separate it, wipe it with a clean cloth to dry thoroughly.

Handle materials carefully to avoid damage: don't drag materials over rough surfaces or each other; don't drag tools over material; protect from swarf.

Cutting

For cutting thin metal on site, we recommend a circular saw with a metal-cutting blade because it produces fewer damaging hot metal particles and leaves less resultant burr than does a carborundum disc.

Cut materials over the ground and not over other materials.

Sweep all metallic swarf and other debris from roof areas and gutters at the end of each day and at the completion of the installation. Failure to do so can lead to surface staining when the metal particles rust.

Sealed joints

For sealed joints use screws or rivets and neutral-cure silicone sealant branded as suitable for use with galvanised or ZINCALUME® steel.

Non-cyclonic areas

The information in this brochure is suitable for use only in areas where a tropical cyclone is unlikely to occur as defined in AS 1170.2—1989 SAA *Loading Code, Part 2: Wind Loads*.

Ask for advice from our information service on designs to be used in cyclonic areas.



Design advantages of LYSAGHT MULTICLAD

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- It can be supplied in either custom cut or in stock lengths.
- Available in a wide variety of COLORBOND® steel colours and ZINCALUME® steel.
- Attractive multi ribbed profile.
- Economical, quick and easy to install.



**Information, brochures and
your local distributor**

1800 641 417

Please check the latest information
which is always available at
www.lysaght.com

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