

Multiclad®

Long, clean lines in a
steel wall cladding



- Attractive trapezoidal multi-ribbed profile
- Quick and easy to install
- Typically used for walling in industrial, commercial and residential buildings such as garages, screens and fascias.
- Can be supplied custom cut or in stock lengths
- Available in a wide variety of COLORBOND® steel colours and unpainted ZINCALUME® steel

Lysaght Multiclad®

The 840mm wide cover of the MULTICLAD profile makes it one of the most economical LYSAGHT wall claddings. This also means it is quick to install.

MULTICLAD is usually used where an inexpensive, quick to install cladding is desirable, such as garages, carports and sheds. The speed of installation also makes it popular for commercial and industrial projects such as warehouses, showrooms and retail premises.

Available in a range of COLORBOND® steel colours, MULTICLAD will make an attractive choice for any building project. The long, clean lines of MULTICLAD can be installed either vertically or horizontally.

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 alloycoated steel complying with AS1397 —2001 G550, AZ150 (550 MPa minimum yield stress, 150 g/m² minimum coating mass);

The base metal thickness (BMT) is 0.35 or 0.42mm.

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

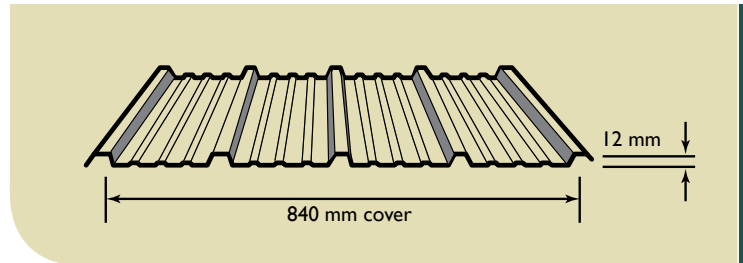
Lengths

MULTICLAD is available in custom cut lengths to suit the application requirements. Check with your local supplier on the maximum and minimum available lengths.

Tolerances

Length: + 0mm, - 15mm

Width: + 4mm, - 4mm



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, Ms=0.85, Mi=1.0, Mt=1.0 with the following assumptions made:

Walls:

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

MULTICLAD

	Fixing to steel up to 0.75 mm BMT	Fixing to steel >0.75 to 3 mm BMT	Fixing to timber
Valley fixed	Self drilling screws with hex.washer-head 12-12x20 (M5.5-11x25)	Self drilling screws with hex.washer-head 10-16x16 (M4.8-16x16)	Self drilling screws with hex.washer-head SOFTWOOD: 10-12x30 (M4.8-12x30) HARDWOOD: 10-12x20 (M4.8-12x20)

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

LYSAGHT 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 capacities. Strength capacity is based on 1.00mm 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 $(\text{span}/120) + (\text{maximum fastener pitch}/30)$.

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 1.0mm, G550 steel.

For material less than 1.0mm 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

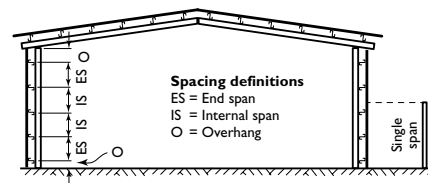
Optimum product life will be achieved if all external walls are washed regularly.

Areas not cleaned by natural rainfall (such as the tops of walls sheltered by eaves) should be washed down every six months.

Safety, storage and handling

Handling Safety - Lysaght product may be sharp and heavy.

It is recommended that heavy-duty cut resistant gloves and appropriate manual handling techniques or a lifting plan be used when handling material.



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.

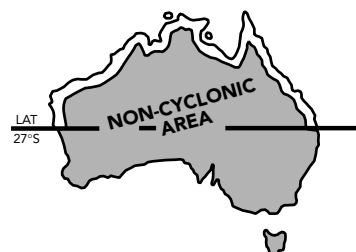
Sealed joints

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—2002.

For information on the use of lysaght products in cyclonic conditions, refer to the Design Capacities for Cyclonic Areas brochure (formerly Cyclonic Area Design Manual) which is available by ringing Steel Direct on 1800 641 417 or on our website: www.lysaght.com.





Design advantages of Lysaght Multiclad®

- Available in NSW - please check with local sales office for availability in other states.
- LYSAGHT MULTICLAD is not recommended for roofing.
- 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.
- COLORBOND® steel is available in 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.

Disclaimer, warranties and limitation of liability

This publication is intended to be an aid for all trades and professionals involved with specifying and installing LYSAGHT products and not to be a substitute for professional judgement.

Terms and conditions of sale available at local BlueScope Lysaght sales offices.

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www.lysaght.com

Information, brochures and your local distributor

1800 641 417

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