

PRODUCT SPECIFICATION – MONOCLAD™

The roofing and/or wall cladding metal sheets shall be 0.42mm BMT (i.e. 0.47mm TCT) or 0.48mm BMT (i.e. 0.53mm TCT) **MONOCLAD™** as produced by **LCP Building Products Pte Ltd**, with trapezoidal ribs of 29mm high, spaced at 190mm centres. The effective cover width for the metal sheets shall be 762mm.

The sheeting material shall be ZINCALUME® protected steel sheet to Australian Standard AS1397 with a minimum yield stress of 550MPa (Grade G550), metallic hot-dip coated with ZINCALUME® zinc/ aluminium alloy- coated steel comprising 55% aluminium, 43.5% zinc and 1.5% silicon. The minimum coating mass for the ZINCALUME® zinc/aluminium alloy - coated steel shall be AZ150 (150 g/m² minimum coating mass) as determined by Australian Standard AS1397.

Wherever applicable, the installation of the metal sheets shall be in accordance to the “Installation code for metal roofing and wall cladding; Standards Australia SAA HB39-1997”. The sheets shall be installed in accordance to manufacturer’s recommendations. The fasteners used to secure the metal sheets to the supports shall conform to Australian Standard AS3566 and be compatible with the roofing material used.

Sheets shall be laid in such a manner that the approved side lap faces away from the prevailing weather. A minimum of 50mm shall be provided for projection into gutters. Flashings shall be supplied in compatible materials as specified, minimum cover of flashing shall be 150mm.

All sheets shall be fixed in a workman like manner, leaving the job clean and weather-tight. All debris (nuts, screws, cuttings, filings etc.) shall be cleaned off daily. For actual installation of cladding, use only competent and skilled installers completely familiar with and specifically trained and experienced in the application of materials specified herein, and the manufacturer’s currently recommended methods of installation.

The Contract Documents define the required profile; the Contractor is responsible for the design of the system and the development of the details, within the limitations established by the Contract Documents, in strict accordance with the Manufacturers recommendations, in order to conform to the set criteria herein. All work of this section, as shown or specified, shall be in accordance with the requirements of the Contract Documents. In addition, all work shall be executed so as to meet all applicable requirements of the building regulations in Singapore.



PRODUCT SPECIFICATION – MONOCLAD™, continued

Option for Clean COLORBOND® prepainted steel sheets

The prepainted steel sheets to be used for MONOCLAD™ roofing and/or wall cladding shall be Clean COLORBOND® prepainted steel manufactured by BlueScope Steel Limited; factory coiled painted, and oven baked to Australian Standard AS2728.

The type of prepainted steel for the MONOCLAD™ could be a range of Clean COLORBOND® products. The technical specifications are as follows:

a) **Clean COLORBOND® (Exterior Roofing & Walling)**

- Primer coat: Universal corrosion inhibitive primer; nominal thickness 5um top side.
- Finish coat: Nominal thickness 20um on the top or weather side. The finish coat colour shall be
- Backing coat: Shadow grey; nominal film thickness 10um.
- Gloss: Nominal 25% (60 degree).

b) **Clean COLORBOND® XPD (Exterior Premium Durability)**

- Primer coat: Corrosion inhibitive primer; nominal thickness 5um each side.
- Finish coat: Nominal thickness 20um of PVF² paint finish on the top or weather side. The finish coat colour shall be
- Backing coat: Snowgum Green; nominal film thickness 5um.
- Gloss: Nominal 25% (60 degree).

c) **Clean COLORBOND® Ultra Steel (Exterior Roofing & Walling, suited for moderately severe marine & industrial environments)**

- Corrosion Inhibitive Primer (on both sides): Nominal thickness 5um.
- Finish Coat (on the top or weather side): Nominal thickness 20um of regular polyester paint finish with nominal 25% (60 degree) gloss. The finish coat colour shall be
- Backing Coat: Nominal thickness 10um

d) **Clean COLORBOND® XPD Pearlescent (an optional finish for prestigious building panels requiring premium colour and gloss retention)**

- Primer coat: Specially formulated corrosion inhibitive primer; nominal thickness 5um each side.
- Finish coat: Nominal thickness 20um of PVF² paint finish on the top or weather side. The finish coat colour shall be
- Backing coat: Snowgum Green; nominal film thickness 5um.
- Gloss: Nominal gloss level of 15% to 35% (60 degree) depending upon the colour.