

COATING & STEEL SPECIFICATION

National Construction Code of Australia (NCC)

At Millform Australia®, we manufacture top-grade steel products from high quality materials. Our durable products are ideal for a range of industrial, commercial, and civil applications.

Millform Australia products are manufactured from high-quality galvanised steel or **MAGNA-SHIELD PRO™** which meets the requirements for the Type ZM Coating Class under AS 1397:2021

Millform Australia are accredited to ISO 9001:2015 and ISO 45001:2018



MILLFORM PRODUCTS

The following products are included in this specification:

- **TopForm™** Top-Hat Purlins
- **FormBatten™** Battens
- **CladForm™** Junction Studs
- Facade System
- Trim Angle
- Channels
- Slab & Spiral Duct
- **RibForm™** Corrugated Sheet Metal
- **Archetype Purlin™** C-Section Purlins
- **Archetype Purlin™** Z-Section Purlins
- **Extreme Purlin™** C-Section Purlins
- **Extreme Purlin™** Z-Section Purlins
- **HookFast®** Purlin Bridging
- **MillFrame™** Steel Framing
- **CorroForm™** Corrugated Sheet Metal

“Where Strength Matters”



COMPLIANCE TO AUSTRALIAN STANDARDS

Millform Australia products and designs conform to relevant Australian Standards

AS 1170:2011	Series Structural design actions
AS 4600:2018	Cold-formed steel structures
AS 1397:2021	Steel Sheet and Strip Coatings of zinc and zinc alloyed with aluminium and magnesium
AS 2312:2002	Guide to the protection of structural steel against corrosion by the protection of protective coatings
AS/NZ 5131:2016	Structural Steel Fabrication and Erection
AS 4100:2020	Steel Structures
AS/NZ 2728:2013	Prefinished / Prepainted sheet metal products for interior/exterior building applications
AS 1595:1998	Cold rolled, unalloyed, steel sheet and strip
AS 4040.3	Methods for testing sheet roof and wall cladding

When using Millform Australia supplied data, in accordance with the provisions of AS/ANZ 4600:1996 Cold-Formed Steel Structures, including supplied load capacities, for Millform Australia bridging, those selected sections will perform as specified, when design, fabrication and erection are installed according to best practice and Millform Australia recommendations.

MATERIAL PROTECTION & COMPATIBILITY

Some building materials and environmental conditions function poorly with coated steel products. It's important to avoid run-off exposure or contact that results from aggressive atmospheric conditions, incompatible materials, excessive moisture, and treated materials. Incompatible metals include lead and copper, excessive moisture is likely with non-seasoned timber, and treated materials include CCa and tanalith.

When installed correctly, in the right locations, standard Z350 galvanised coating will provide a long and maintenance-free life. Typical applications include enclosed buildings and open-sided rural applications in standard environments. Z450 should be used in more extreme environments.

MAGNA-SHIELD PRO™ is a superior steel coating layer combining zinc, aluminium, and magnesium with outstanding results. It offers incredible corrosion resistance, impressive scratch resistance, among other benefits. At Millform Australia®, we manufacture products from **MAGNA-SHIELD PRO™** coated steel for harsh environments.

Millform Australia advise that it uses both in house engineers and external testing, as well as accredited external structural engineers, for substantiation in relation to design capacity tables.

MATERIALS & FINISHES

Millform Australia products are manufactured from high quality galvanised steel or **Magna-Shield Pro™**, a coating which meets the requirements for the **Type ZM Coating Class under AS 1397:2021** *Continuous hot-dip metallic coated steel sheet and strip — Coatings of zinc and zinc alloyed with aluminium and magnesium.*

Base metal Thickness (BMT)	— 0.30 to 3.0mm
Minimum Yield Strength	— G550mpa, G450mpa, G300mpa
Coating Mass	— Z275, Z350, Z450
Magna-Sheild Pro™	— ZM350

MATERIAL TOLERANCES

All steel sections are produced with the following tolerances:

- Length ± 5 mm
- Flange width ± 1 mm
- Depth ± 1 mm
- Hole centre ± 1.5 mm

WELDING NOT RECOMMENDED

Welding is not recommended for purlins, girts, or bridging materials. Cold rolled steel is a high-tensile material, with welding likely to remove the galvanised coating and reduce the lifespan of the product

FOR DETAILED PRODUCT INFORMATION
GUIDES AND PROJECT CASE STUDIES VISIT:
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