

C450PLUS

SPECIFY THE NEW STANDARD IN
STRUCTURAL TUBE



Introducing C450PLUS® structural tube

- Higher strength for the same weight – more efficient design in many applications
- More efficient design – lower total cost
- Recognised in Green Star® Rating Tool as a material which improves sustainability – greater asset owner value
- Same elongation as C350LO – no loss of ductility and workability
- Test certificate and in-line marking – guarantees compliance and quality
- Complies with AS/NZS 1163 : 2016 C450LO – reduce risks, increase structural integrity



C450PLUS

Austube Mills' C450PLUS® structural tube has the strength of 450 Grade with the elongation, formability, weldability and processing capabilities of 350 Grade.



The benefits of C450PLUS® structural tube are so substantial that engineers, fabricators, manufacturers and other end users will adopt C450PLUS® structural tube as their standard grade.

Specifier/Asset Owner benefits

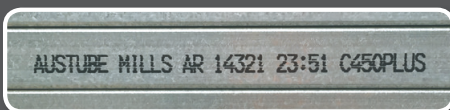
- > C450PLUS® structural tube represents higher strength for the same weight - more efficient design in many applications
- > More efficient design - lower total project cost
- > Satisfies all the requirements of the revised Australian Standard- AS/NZS 1163 : 2016
- > Recognised in the Green Star® Rating Tool as a material which improves sustainability – greater asset owner value
- > Ideal as a possible structural steel substitute – potential to reduce steel mass and lower total project cost.

Manufacturer/Fabricator benefits

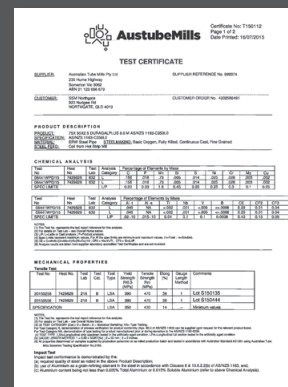
- > Reduced weight of manufactured products – providing significant handling and transport benefits
- > Same elongation as C350LO – no loss of ductility and workability
- > Higher strength for the same weight – more efficient design in many applications
- > More efficient design – lower total cost
- > Complies with AS/NZS 1163 : 2016 C450LO – reduce risks, increase structural integrity.

How you know you're getting C450PLUS® structural tube

- > Demand that the test certificate conforms and the product complies with the Australian Standard AS/NZS 1163 : 2016. Look for the OneSteel logo and a reference to the ILAC (e.g. NATA) accredited laboratory on the Test Certificate.
- > Look for the in-line product marking to identify that it is produced by Austube Mills as per the requirements of AS/NZS 1163 : 2016.



AS/NZS 1163 : 2016 – In-line product marking



Example Test Certificate



C450PLUS

PRODUCT INFORMATION SHS & RHS



SHS	Gauge	Preferred Coating Finishes			
65 x 65	1.6 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
75 x 75	2 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
100 x 100	2 mm to 10 mm	DuraGalPlus	DuraPrimed	NOPC	Oil
125 x 125	4 mm to 10 mm		DuraPrimed	NOPC	Oil
150 x 150	5 mm to 10 mm		DuraPrimed	NOPC	Oil
200 x 200	5 mm to 16 mm		DuraPrimed	NOPC	Oil
250 x 250	6 mm to 16 mm				Oil
300 x 300	8 mm to 16 mm				Oil
400 x 400	10 mm to 16 mm				Oil

RHS	Gauge	Preferred Coating Finishes			
75 x 50	1.6 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
76 x 38	2.5 mm to 4 mm	DuraGalPlus	DuraPrimed	NOPC	
100 x 50	1.6 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
102 x 76	3.5 mm to 6 mm		DuraPrimed	NOPC	
125 x 75	2 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
127 x 51	3.5 mm to 6 mm		DuraPrimed	NOPC	
150 x 50	2 mm to 6 mm	DuraGalPlus	DuraPrimed	NOPC	
150 x 100	4 mm to 9 mm		DuraPrimed	NOPC	Oil
152 x 76	5 mm to 6 mm		DuraPrimed	NOPC	
200 x 100	4 mm to 9 mm		DuraPrimed	NOPC	Oil
250 x 150	5 mm to 16 mm		DuraPrimed	NOPC	Oil
300 x 200	6 mm to 16 mm				Oil
350 x 250	8 mm to 16 mm				Oil
400 x 200	8 mm to 16 mm				Oil
400 x 300	8 mm to 16 mm				Oil

DuraGalPlus	Up to 5 mm gauge
DuraPrimed	Up to 6 mm gauge
NOPC	Ex rolling up to 200 x 200 x 6 mm
Oil	8 mm to 16 mm

Note: All sections smaller than 65 x 65 and 75 x 50 can be supplied as C450PLUS™ structural tube ex rolling.

NOPC: No Oil or Paint Coatings



C450PLUS

COMPLIES WITH
AS/NZS 1163:2016



What you need to know about the new Australian Standards

It is called AS/NZS 1163 : 2016 Cold-formed structural steel hollow sections and it covers;

- > Structural Circular Hollow Sections (CHS)
- > Structural Rectangular Hollow Sections (RHS)
- > Structural Square Hollow Sections (SHS)

The basis of the revised standard is to:

- > Address industry concerns on product quality, identification, certification and traceability
- > Avoid “non-compliance” issues that are currently being seen in other areas
- > To reduce the situation of “who is responsible” when failure occurs
- > From requests, and demands, from end users, engineers, asset owners to embrace the above.

For further information on the new Standards visit www.onesteel.com

What you need to know about the new Green Star® Ratings

The Green Building Council of Australia has recently changed the Steel Credit criteria used in the Green Star® rating tool for office, retail, education, residential and health care buildings. To be eligible to apply for up to 2 points, 95% by mass of steel used in buildings needs to be sourced from:

- Steel making facilities that have an ISO 14001 Environmental Management System (EMS) in place and;
- Steel makers who are members of the World Steel Association’s Climate Action Programme.

Recognition may be given for the use of:

- Higher grade steel such as that used in C450PLUS™ structural tube.

For further information on Green Star® visit www.onesteel.com

