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Date 9th March 2012

Mr Geoffrey Gleeson,
Director - International Trade Remedies Branch
Australian Customs and Border Protection Service
5 Constitution Avenue
CANBERRA ACT 2601

Dear Geoff,

Public File Version:
Investigation into HSS imported from China, Korea, Malaysia, Taiwan and Thailand
General Submission - Domestic/Import Pricing

1. Executive Summary

- 1.1. In the Application for Anti-Dumping Duties for Certain Hollow Structural Sections, (ACDN No 177), a number of claims are made with regard to pricing. This document seeks to provide clarity as to the multi-faceted nature of OneSteel pricing and to enable a more appropriate 'like for like' comparisons of domestic versus import pricing

In addition, a number of recommendations are included.

2. OneSteel-ATM Multi-Tier Selling Price

Tier 1 – Prime/Premium

- 2.1. OneSteel-ATM have provided as Non-Confidential Attachment A-3.3 to their application, "Australian Tube Mills – Pipe & Tube Structural Products – Product Availability Guide" effective from 27 November 2009. We advise AC& BPS, this is not the current version of the Product Availability Guide. Per the Onesteel ATM website the latest version effective is from 1 February 2011. This 'cancels' a 5 July 2010 version. Based on this information, the Product Availability Guide lodged with the application is at least 2 versions out of date.
- 2.2. Annexure "A" is a copy of current Product Availability Guide effective 1 February 2011.
- 2.3. The Product Availability Guide indicates HSS (GUC) OneSteel-ATM can produce and supply on a variable supply basis as follows:-
 - 2.3.1. Ex-Stock
 - 2.3.2. Ex-Rolling; and
 - 2.3.3. Ex-rolling and minimum order quantity.



- 2.4. The Product Availability Guide is unclear as to whether the product listed is produced by Onesteel or only that it is available for sale (i.e. imported). To this point, since the February 1 Product Availability Guide and prior to the initiation of this HSS Dumping Application, there have been further significant changes in Onesteel's production base. Notably, the decision in mid August 2011, to no longer commercially manufacture HDGP in Australia is a critical change that was not mentioned as part of the HSS Dumping Application initiated several weeks later.
- 2.5. There have been numerous changes between Product Availability Guide effective 27 November 2009 and 1 February 2011 as outlined in Annexure "B" and "Annexure C".
- 2.6. A Guide to Purchasing effective from 21 May 2010 is attached as Annexure "D" providing OneSteel-ATM terms and conditions of supply on the above basis.
- 2.7. Ex-stock pricing would be charged at a premium due to the increased costs of warehousing and handling.
- 2.8. Tier 1 pricing is offered to OneSteel distribution, BlueScope and a limited number of select distributors, subject to availability. Note as identified in previous investigations, OneSteel-ATM placed various customers on limited supply allocation during 2008 due to excessive demand, which would imply OneSteel Distribution (and perhaps BlueScope) receives priority supply and perhaps pricing.
- 2.9. Again, we note also that changes in Onesteel ATM's supply capability (i.e: HDGP) are such that in addition to restrictions of supply during 2008, Onesteel ATM have further reduced their manufacturing capacity so that locally produced HSS is unable to meet local market demand. This is in direct contrast to the claim made in the Application¹.
- 2.10. OneSteel-ATM advised the following price rises to Tier 1 HSS pricing during the investigation period:-
 - 2.10.1. Effective 5 July 2010 – 11%;
 - 2.10.2. Effective 4 January 2011 – 7%; and
 - 2.10.3. Effective 7 March 2011 – 18%.
- 2.11. On each notification of price increase, the cause was increased HRC price due to increasing international steel price increases, including but not limited to iron ore, coking coal and scrap steel.
- 2.12. Further, based on available price increase letters Orrcon, advised their customers of identical price rises on or about the same dates, which would appear to confirm movement in raw material costs.

¹ Onesteel Application for Dumping and Countervailing Duties; A-9, page 27, para 1.



Tier 2 – Import Parity Pricing (IPP)

- 2.13. IPP is offered on a monthly basis, subject to minimum order quantities and on a [REDACTED] rolling lead time, (similar to import lead time).
- 2.14. OneSteel-ATM pass on the following cost savings in reduced pricing to customers compared to Tier 1:-
- 2.14.1. Ability to optimize rolling schedules through confirmed projected sales;
 - 2.14.2. Establish raw material costs and contracts, or price according to current raw material rates rather than future variables; and
 - 2.14.3. Reduced warehouse and handling costs.
- 2.15. Imported HSS benefit from the same cost savings.
- 2.16. The following is our understanding of IPP offer during investigation period, base per metric tonne:-

[table deleted – pricing information]

Tier 3 – Irini Offer

- 2.17. OneSteel-ATM HSS is also offered through an independent trader, Irini.
- 2.18. Terms of offer are similar to IPP, however also subject to additional minimum order quantities of multiples of [REDACTED]. *[sales terms]*

Tier 4 – OzTube

- 2.19. HSS manufactured of lesser grade of steel and to AS1450 and not AS1163-2009.
- 2.20. Sold through OneSteel distribution as surplus or downgrade material.

ASA Recommendation 1 – AC& BPS identify if OneSteel ATM Product Availability Guide includes import sourced items or domestically produced items only.

ASA Recommendation 2 – AC& BPS request customer price notification letters from OneSteel ATM for verification.

ASA Recommendation 3 – AC& BPS benchmark OneSteel-ATM pricing with Orrcon and ITM.

ASA Recommendation 4 – Any price comparison should be at Tier 2 – Import Parity Pricing due to the similar costing structure, and exclude OneSteel distribution and BlueScope sales due to potential non-arms length implications of these sales.



3. Import vs Local Pricing

Import Pricing

- 3.1. Imported HSS is ordered ex-rolling (generally [REDACTED] lead time) [sales terms] and subject to minimum order quantities, as it is manufactured to unique Australian standards and therefore cannot be stock piled and sold to alternative domestic or other international markets.
- 3.2. Exporting mills will generally provide a base offer price (generally in USD FOB) for HSS to steel trading companies to source ex-rolling orders from their Australian distribution customers.
- 3.3. The mill offer will be based on prevailing raw material, manufacturing, handling and cartage costs that the mill can establish for the offer rolling schedule, with a validity date that will correlate with validity date of mill raw material supply costs for the rolling schedule.
- 3.4. Steel trading companies will prepare a base offer price (generally in AUD FIS) to Australian distribution customers, to include landed costs of shipping, duty, clearance, cartage, insurance and funding costs etc, together with mill offer price, with validity date to correlate with mill offer validity date.
- 3.5. Australian distribution customers will compare AUD FIS offer prices from various trading companies who have offered HSS from various countries, together with locally produced HSS (if offered to applicable distribution customer), and make purchasing decisions based on, but not limited to the following:-
 - 3.5.1. Current distribution stock levels;
 - 3.5.2. Projected sales/demand between order and delivery taking into account ex-rolling lead time,
shipping schedules and delivery time frame from Australian discharge port;
 - 3.5.3. Historical performance of export mill to rolling schedule;
 - 3.5.4. Historical quality performance of export mill including coating, packaging and handling;
 - 3.5.5. Prevailing international pricing trends; and
 - 3.5.6. Of course, price.
- 3.6. To mitigate exposure to some of the above, Australian distribution customers may spread their orders across various HSS purchase opportunities.
- 3.7. Once an Australian distribution customer places an order with a trading company and is confirmed with export mill, both sale price (generally AUD FIS) and purchase price (generally USD FOB) are contacted to establish final un-adjustable price. All commercial risk, including FX exposure is borne by the trading company, who generally implement a hedging strategy to mitigate this risk.
- 3.8. While the majority of imports are sourced via the wholesale level of trading companies, distribution customers and end-users can import HSS direct, electing to manage logistic, funding and risk implications undertaken by trading companies (including FX exposure), with increasing number



electing to do so, including the Applicant.

Local Price

- 3.9. As per ASA submission point 2 above, the applicant has provided an Australian Tube Mills – Pipe & Tube Structural Products – Product Availability Guide” (although outdated) which identifies HSS available ex-stock, ex-rolling and ex-rolling with MOQ.
- 3.10. Also noted in ASA submission point 2, the applicant provides multi-tier selling prices to certain customers, together with majority sales generated by non-arms length relationships.
- 3.11. The following variances between local and imported cost structures should be taken into account:-
- 3.11.1. Applicant chooses to offer various HSS on an ex-stock basis while import sources do not and will not. We suggest offer of HSS on an ex-stock basis is a strategic decision to benefit OneSteel's vertical integrated distribution network and BlueScope distribution, rather than OneSteel-ATM.
- 3.11.2. We understand the applicant sources majority of HRC raw material from BlueScope, where it is uncertain of any relationship between BlueScope HRC price and OneSteel-ATM supply of HSS to BlueScope Distribution;
- 3.11.3. The applicant has indicated HRC pricing from BlueScope is based on a [REDACTED] [supply terms] price, whereas import supply generally utilise prevailing spot HRC pricing for delivery to coincide with rolling schedule. What currency is BlueScope HRC [REDACTED] [supply terms] established, if AUD what are the costs and benefits of currency fluctuations during quarter?
- 3.11.4. What was the benefit or cost on stock of HSS at end of each quarter when quarterly HRC contract price is adjusted?
- 3.11.5. Australia is vast country with applicant mills situated on the south-east coast of Australia. Geographical demand can vary due to various influences, including during the investigation period, post GFC and two-speed economy with mining boom in Queensland and Western Australia. Any costs or uncompetitive pricing influences of Australian in-land transport need to be excluded.

ASA Recommendation 5 – Date of sale of imported HSS is date of contract, when both selling and purchase cost is established and cannot be varied.

ASA Recommendation 6 – AC&BPS benchmark OneSteel-ATM purchase pricing of HRC from BlueScope with internationally traded HRC to confirm and uncompetitive contract pricing and/or relationship between HRC purchased from BlueScope with HSS sold to BlueScope Distribution.

ASA Recommendation 7 – AC&BPS make appropriate adjustment for in-land freight component included in OneSteel ATM selling price.

**ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version**

1. ATM – Pipe & Tube Structural Products – Products Availability Guide submitted with Dumping Application as Non-Confidential Attachment A-3.3 is version Effective From : 27 November 2009.
2. The latest version (from ATM website) is Effective From : 1 February 2011 which cancelled previous guide dated 5 July 2010.
3. Therefore the Products Availability Guide submitted by ATM with Dumping Application is outdated by at least 2 versions.
4. Not sure which version was lodged with previous application as can't locate on Electronic Public Record version.
5. Uncertain what guide ATM should have lodged i.e. goods available for manufacture at beginning of investigation year or those available for manufacture subsequent to investigation year, however in any case the 17 November 2009 version doesn't appear to be appropriate as either 5 July 2010 or 1 February 2011 versions.
6. The attached spreadsheet is an analysis of ATM Product Availability Guide between 1 February 2011 and 27 November 2009, detailing the following:-
 - a. Line = order of appearance in 1 February 2011 ATM Product Availability Guide;
 - b. Description, dimensions, finish, ends, thickness range, length, pack size and kg per metre, as per Product Availability Guide;
 - c. The ATM Product Availability Guides, outline what products ATM manufacture/supply either on ex-stock terms, ex-rolling terms or ex-rolling and require Minimum Order Quantity (MOQ), together with items that are not available for manufacture/supply;
 - d. For spreadsheet purposes these have been identified as A, B, C or "blank" respectively, in relation to 1/02/2011 and 27/11/2009 guides;
 - e. The final column "Change" identifies whether there has been any change between each availability guide;
 - f. Items highlighted in YELLOW identify where ATM guide indicates items can be supplied in both 8 and 12 metre lengths (8 metre lengths have been used in spreadsheet in these cases);
 - g. Items highlighted in GREEN identify items included in 27 November 2009 guide, no longer listed in 1 February 2011 guide; and
 - h. Items highlighted in RED are included in 1 February 2011 guide where not listed in 27 November 2009 guide.

**ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version**

7. The attached spreadsheet could be utilised by investigated mills to compare their own production compared to ATM availability of exact like goods.
8. Based on current version (1 February 2011) compared to ATM lodged version (27 November 2009), the following are noted:-
 - a. The current version has provision for 1,044 items to be included in list, however only 605 are actually available to be manufactured, with 332 items available ex-stock, 212 available ex-rolling only and 61 available ex-rolling with MOQ;
 - b. Which compares with ATM lodged version of 597 are actually available to be manufactured, with 295 items available ex-stock, 250 available ex-rolling only and 52 available ex-rolling with MOQ;
 - c. Other changes between current version and lodged version include:-
 - i. Current Version – cease to offer grade C350 SHS above 65 x 65 in Painted and SupaGal (Dual Grade only);
 - ii. Current Version – cease to offer grade C350 RHS above 75 x 50 in Painted and SupaGal (Dual Grade only);
 - iii. Current Version - Cease to offer UniRail, StockRail and YardRail;
 - iv. The following were previously offered, however no longer offered in current version:-

Description	do/d	b	t	Finish	Ends	
CHS Grade C250LO	21.3		2.6	Hot Dip Gal	Plain Ends	Ex Stock
CHS Grade C350LO	323.9		9.5	Clear	Plain Ends	MOQ
CHS Grade C350LO	355.6		9.5	Clear	Plain Ends	MOQ
RHS Grade C450PLUS	150.0	100.0	10.0	Oiled		MOQ
RHS Grade C450PLUS	200.0	100.0	10.0	Oiled		MOQ

- v. The following is now offered in current version and wasn't offered in ATM lodged version:-

Description	do/d	b	t	Finish
RHS Grade C450PLUS	300.0	200.0	9.0	Oiled ex-rolling

**ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version**

vi. There are 48 items that are currently available ex-stock but were ex-rolling in ATM lodged version as follows:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	60.3		2.3	50 XL	Clear	Plain Ends
CHS Grade C250LO	114.3		3.2	100 XL	Clear	Plain Ends
CHS Grade C250LO	165.1		3.0	150 XL	Clear	Plain Ends
CHS Grade C250LO	33.7		2.6	25 L	Clear	Plain Ends
CHS Grade C250LO	42.4		2.6	32 L	Clear	Plain Ends
CHS Grade C250LO	48.3		2.9	40 L	Clear	Plain Ends
CHS Grade C250LO	88.9		3.2	80 L	Clear	Plain Ends
CHS Grade C250LO	114.3		3.6	100 L	Clear	Plain Ends
CHS Grade C250LO	165.1		3.5	150 L	Clear	Plain Ends
CHS Grade C250LO	101.6		4.0	90 M	Clear	Plain Ends
CHS Grade C250LO	76.1		4.5	65 H	Clear	Plain Ends
CHS Grade C250LO	88.9		5.0	80 H	Clear	Plain Ends
CHS Grade C250LO	165.1		5.4	150 H	Clear	Plain Ends
CHS Grade C250LO	88.9		5.0	80 H	Hot Dip Gal	Plain Ends
SHS Grade C350LO	20.0	20.0	2.0		Painted	
SHS Grade C350LO	30.0	30.0	2.5		Painted	
SHS Grade C350LO	30.0	30.0	1.6		SupaGal	
SHS Grade C350LO	30.0	30.0	2.0		SupaGal	
SHS Grade C350LO	35.0	35.0	1.6		SupaGal	
SHS Grade C350LO	35.0	35.0	2.0		SupaGal	
SHS Grade C350LO	40.0	40.0	4.0		SupaGal	
SHS Grade C350LO	50.0	50.0	5.0		SupaGal	
SHS Grade C450PLUS	65.0	65.0	2.5		Painted	
SHS Grade C450PLUS	65.0	65.0	5.0		Painted	
SHS Grade C450PLUS	75.0	75.0	2.0		Painted	
SHS Grade C450PLUS	75.0	75.0	2.5		Painted	
SHS Grade C450PLUS	75.0	75.0	3.5		Painted	
SHS Grade C450PLUS	65.0	65.0	4.0		SupaGal	
SHS Grade C450PLUS	75.0	75.0	2.0		SupaGal	
SHS Grade C450PLUS	75.0	75.0	6.0		DuraGal	
SHS Grade C450PLUS	200.0	200.0	10.0		Oiled	
SHS Grade C450PLUS	200.0	200.0	12.5		Oiled	
SHS Grade C450PLUS	200.0	200.0	16.0		Oiled	
SHS Grade C450PLUS	350.0	350.0	16.0		Oiled	
RHS Grade C350LO	65.0	35.0	4.0		Painted	
RHS Grade C350LO	75.0	25.0	2.5		Painted	
RHS Grade C450PLUS	65.0	35.0	2.5		DuraGal	
RHS Grade C450PLUS	75.0	25.0	1.6		DuraGal	
RHS Grade C450PLUS	75.0	25.0	2.5		DuraGal	
RHS Grade C450PLUS	75.0	50.0	2.0		Painted	
RHS Grade C450PLUS	75.0	50.0	6.0		Painted	
RHS Grade C450PLUS	100.0	50.0	3.5		Painted	
RHS Grade C450PLUS	102.0	76.0	3.5		Painted	
RHS Grade C450PLUS	127.0	51.0	5.0		Painted	
RHS Grade C450PLUS	125.0	75.0	5.0		SupaGal	
RHS Grade C450PLUS	250.0	150.0	9.0		Clear	
RHS Grade C450PLUS	350.0	250.0	10.0		Oiled	
RHS Grade C450PLUS	400.0	300.0	12.5		Oiled	

**ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version**

vii. The following items are currently available ex-stock were ex-rolling MOU an ATM lodged version:-

Description	do/d	b	t	Finish	Ends
CHS Grade C250LO	139.7		3.5	Clear	Plain Ends
SHS Grade C450PLUS	65.0	65.0	1.6	DuraGal	
RHS Grade C350LO	50.0	20.0	2.5	Painted	
RHS Grade C350LO	50.0	20.0	3.0	Painted	
RHS Grade C450PLUS	150.0	50.0	2.5	DuraGal	

viii. The following items are currently available ex-stock were not available in ATM lodged version:-

Description	do/d	b	t	Finish	Ends
SHS Grade C450PLUS	150.0	150.0	9.0	Oiled	
SHS Grade C450PLUS	150.0	150.0	10.0	Oiled	
SILO Grade C450PLUS	75.0	64.0	3.0	DuraGal	

ix. The following are now available ex-rolling were MOU in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	114.3		3.2	100 XL	Hot Dip Gal	Plain Ends
CHS Grade C350LO	323.9		12.7		Clear	Plain Ends
CHS Grade C350LO	355.6		12.7		Clear	Plain Ends
CHS Grade C350LO	508.0		6.4		Clear	Plain Ends
CHS Grade C350LO	508.0		9.5		Clear	Plain Ends
CHS Grade C350LO	508.0		12.7		Clear	Plain Ends
SHS Grade C450PLUS	100.0	100.0	8.0		Oiled	
SHS Grade C450PLUS	200.0	200.0	8.0		Clear	
Post Grade C450PLUS	90.0	90.0	2.0		GAL140	
Building Products C450PLUS	90.0	90.0	2.5		GAL140	
Building Products C450PLUS	100.0	50.0	1.6		GAL140	
Building Products C450PLUS	100.0	50.0	2.0		GAL140	
Building Products C450PLUS	150.0	50.0	2.0		GAL140	
Building Products C450PLUS	150.0	50.0	3.0		GAL140	

x. The following are now available ex-rolling were not available for manufacture in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	76.1		2.3	65 XL	SupaGal	Plain Ends
CHS Grade C250LO	139.7		5.4	125 H	Clear	Screwed Both Ends
CHS Grade C350LO	273.1		12.7		Clear	Plain Ends
SHS Grade C450PLUS	150.0	150.0	8.0		Oiled	
RHS Grade C450PLUS	75.0	50.0	1.6		Painted	
RHS Grade C450PLUS	300.0	200.0	9.0		Oiled	

**ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version**

xi. The following are now available subject to MOQ were not available in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	101.6		2.6	90 XL	Clear	Plain Ends
CHS Grade C250LO	88.9		2.6	80 XL	SupaGal	Plain Ends
RHS Grade C350LO	65.0	35.0	4.0		SupaGal	
RHS Grade C450PLUS	125.0	75.0	2.5		Painted	
RHS Grade C450PLUS	100.0	50.0	1.6		SupaGal	
RHS Grade C450PLUS	150.0	50.0	2.0		SupaGal	
SILO Grade C450PLUS	75.0	64.0	2.3		DuraGal	

xii. The following are now available ex-rolling were ex-stock in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	42.4		2.0	32 XL	Hot Dip Gal	Plain Ends
CHS Grade C250LO	48.3		2.3	40 XL	Hot Dip Gal	Plain Ends
CHS Grade C250LO	26.9		2.3	20 L	Clear	Plain Ends
CHS Grade C250LO	48.3		2.9	40 L	Hot Dip Gal	Plain Ends
CHS Grade C250LO	60.3		2.9	50 L	Hot Dip Gal	Plain Ends
CHS Grade C250LO	42.4		2.0	32 XL	Hot Dip Gal	Swagged One End
CHS Grade C250LO	42.4		2.6	32 L	Hot Dip Gal	Swagged One End
CHS Grade C250LO	21.3		2.6	15 M	Clear	Plain Ends
CHS Grade C250LO	26.9		2.6	20 M	Hot Dip Gal	Plain Ends
CHS Grade C250LO	88.9		4.0	80 M	Hot Dip Gal	Plain Ends
CHS Grade C250LO	114.3		4.5	100 M	Hot Dip Gal	Screwed Both Ends
CHS Grade C250LO	48.3		4.0	40 H	Hot Dip Gal	Plain Ends
CHS Grade C350LO	219.1		4.8		Clear	Plain Ends
SHS Grade C450PLUS	250.0	250.0	10.0		Oiled	
RHS Grade C450PLUS	250.0	150.0	8.0		Clear	
RHS Grade C450PLUS	400.0	300.0	8.0		Oiled	

xiii. The following are currently available subject to MOQ were ex-stock in ATM lodged version:-

Description	do/d	b	t	DN	Finish
SHS Grade C450PLUS	65.0	65.0	2.0		SupaGal
RHS Grade C450PLUS	127.0	51.0	6.0		Painted

ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version

- d. The following are currently available subject to MOQ were ex-rolling in ATM lodged version:-

Description	do/d	b	t	DN	Finish
SHS Grade C350LO	30.0	30.0	3.0		Painted
SHS Grade C350LO	20.0	20.0	2.0		SupaGal
SHS Grade C350LO	25.0	25.0	3.0		SupaGal
SHS Grade C350LO	30.0	30.0	2.5		SupaGal
SHS Grade C350LO	35.0	35.0	3.0		SupaGal
SHS Grade C450PLUS	65.0	65.0	5.0		SupaGal
RHS Grade C350LO	75.0	25.0	2.0		Painted
RHS Grade C350LO	75.0	25.0	1.6		SupaGal
RHS Grade C350LO	75.0	25.0	2.0		SupaGal
RHS Grade C350LO	75.0	25.0	2.5		SupaGal
RHS Grade C450PLUS	75.0	25.0	2.0		DuraGal
RHS Grade C450PLUS	76.0	38.0	2.5		Painted
RHS Grade C450PLUS	76.0	38.0	3.0		Painted
RHS Grade C450PLUS	76.0	38.0	4.0		Painted
RHS Grade C450PLUS	127.0	51.0	3.5		Painted
RHS Grade C450PLUS	75.0	50.0	1.6		SupaGal
RHS Grade C450PLUS	76.0	38.0	3.0		SupaGal
RHS Grade C450PLUS	100.0	50.0	3.5		SupaGal
RHS Grade C450PLUS	75.0	50.0	1.6		DuraGal
RHS Grade C450PLUS	125.0	75.0	2.0		DuraGal
SILO Grade C450PLUS	75.0	64.0	2.3		Painted
SILO Grade C450PLUS	75.0	64.0	3.0		Painted
SILO Grade C450PLUS	75.0	64.0	3.0		SupaGal
SILO Grade C450PLUS	75.0	64.0	4.0		DuraGal

- i. The following are now not available for manufacture were ex-stock in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO	21.3		2.6	15 H	Hot Dip Gal	Plain Ends

- ii. The following are now not available for manufacture were ex-rolling in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
CHS Grade C250LO - Pipe	165.1		5.0	150 H	Red Painted	Screwed Both Ends
CHS Grade C250LO	42.4		4.0	32 H	Clear	Screwed One End

ATM Product Guide Analysis
Between 1 February 2011 and 27 November 2011 Version

iii. The following are now not available for manufacture were MOQ in ATM lodged version:-

Description	do/d	b	t	DN	Finish	Ends
SHS Grade C450PLUS	100.0	100.0	2.5		Painted	
CHS Grade C350LO	323.9		9.5		Clear	Plain Ends
CHS Grade C350LO	355.6		9.5		Clear	Plain Ends
RHS Grade C450PLUS	150.0	100.0	10.0		Oiled	
RHS Grade C450PLUS	200.0	100.0	10.0		Oiled	

Analysis of ATM Product Availability Guide
Between 1 February 2011 and 27 November 2009 Version

Line	Description	d/d	b	i	DN	Finish	Ends	Thickness	Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
1	CHS Grade C250LO - Pipe	26.9	2.6	2.6	20 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A		
2	CHS Grade C250LO - Pipe	33.7	3.2	25 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
3	CHS Grade C250LO - Pipe	42.4	3.2	32 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
4	CHS Grade C250LO - Pipe	48.3	3.2	40 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
5	CHS Grade C250LO - Pipe	60.3	3.6	50 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
6	CHS Grade C250LO - Pipe	76.1	4.0	65 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
7	CHS Grade C250LO - Pipe	88.9	4.0	80 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
8	CHS Grade C250LO - Pipe	101.6	4.0	90 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
9	CHS Grade C250LO - Pipe	114.3	4.5	100 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
10	CHS Grade C250LO - Pipe	139.7	5.0	125 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
11	CHS Grade C250LO - Pipe	165.1	5.0	150 M	Red Painted	Plan Ends	Medium	6.5	127	156	A	A			
12	CHS Grade C250LO - Pipe	26.9	2.6	20 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
13	CHS Grade C250LO - Pipe	33.7	3.2	25 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
14	CHS Grade C250LO - Pipe	42.4	3.2	32 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
15	CHS Grade C250LO - Pipe	48.3	3.2	40 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
16	CHS Grade C250LO - Pipe	60.3	3.6	50 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
17	CHS Grade C250LO - Pipe	76.1	4.0	65 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
18	CHS Grade C250LO - Pipe	88.9	4.0	80 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
19	CHS Grade C250LO - Pipe	101.6	4.0	90 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
20	CHS Grade C250LO - Pipe	114.3	4.5	100 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
21	CHS Grade C250LO - Pipe	139.7	5.0	125 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
22	CHS Grade C250LO - Pipe	165.1	5.0	150 M	Red Painted	Screwed One End	Medium	6.5	127	156	A	A			
23	CHS Grade C250LO - Pipe	26.9	2.6	20 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
24	CHS Grade C250LO - Pipe	33.7	3.2	25 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
25	CHS Grade C250LO - Pipe	42.4	3.2	32 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
26	CHS Grade C250LO - Pipe	48.3	3.2	40 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
27	CHS Grade C250LO - Pipe	60.3	3.6	50 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
28	CHS Grade C250LO - Pipe	76.1	4.0	65 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
29	CHS Grade C250LO - Pipe	88.9	4.0	80 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
30	CHS Grade C250LO - Pipe	101.6	4.0	90 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
31	CHS Grade C250LO - Pipe	114.3	4.5	100 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
32	CHS Grade C250LO - Pipe	139.7	5.0	125 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
33	CHS Grade C250LO - Pipe	165.1	5.0	150 M	Red Painted	Screwed Both Ends	Medium	6.5	127	156	A	A			
34	CHS Grade C250LO - Pipe	26.9	2.6	20 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A		UP	
35	CHS Grade C250LO - Pipe	33.7	3.2	25 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
36	CHS Grade C250LO - Pipe	42.4	3.2	32 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
37	CHS Grade C250LO - Pipe	48.3	3.2	40 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
38	CHS Grade C250LO - Pipe	60.3	3.6	50 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
39	CHS Grade C250LO - Pipe	76.1	4.0	65 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
40	CHS Grade C250LO - Pipe	88.9	4.0	80 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
41	CHS Grade C250LO - Pipe	101.6	4.0	90 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
42	CHS Grade C250LO - Pipe	114.3	4.5	100 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
43	CHS Grade C250LO - Pipe	139.7	5.0	125 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
44	CHS Grade C250LO - Pipe	165.1	5.0	150 M	Red Painted	Screwed & Socketed	Medium	6.5	127	156	A	A			
45	CHS Grade C250LO	26.9	2.0	20 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B			
46	CHS Grade C250LO	33.7	2.0	25 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B			
47	CHS Grade C250LO	42.4	2.0	32 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B			
48	CHS Grade C250LO	48.3	2.3	40 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B			
49	CHS Grade C250LO	60.3	2.3	50 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B		UP	
50	CHS Grade C250LO	76.1	2.3	65 XL	Clear	Plan Ends	Extra Light	6.5	127	156	B	B		UP	

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Line	Description	do/d	b	i	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
51	CHS Grade C250LO	88.9	2.6	80 XL	Clear	Plain Ends	Extra Light	6.5	19	5.75				
52	CHS Grade C250LO	101.6	2.6	90 XL	Clear	Plain Ends	Extra Light	6.5	19	6.64				DOWN
53	CHS Grade C250LO	114.3	3.2	100 XL	Clear	Plain Ends	Extra Light	6.5	19	9.05	C			UP
54	CHS Grade C250LO	139.7	3.0	125 XL	Clear	Plain Ends	Extra Light	6.5	13	10.50	C			UP
55	CHS Grade C250LO	165.1	3.0	150 XL	Clear	Plain Ends	Extra Light	6.5	10	12.40	C			UP
56	CHS Grade C250LO	28.9	2.0	20 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	127	1.62	A			
57	CHS Grade C250LO	33.7	2.0	25 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	91	1.62	A			DOWN
58	CHS Grade C250LO	42.4	2.0	32 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	61	2.07	B			DOWN
59	CHS Grade C250LO	48.3	2.3	40 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	61	2.70	B			DOWN
60	CHS Grade C250LO	60.3	2.3	50 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	37	3.40	A			
61	CHS Grade C250LO	76.1	2.3	65 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	37	4.33	B			
62	CHS Grade C250LO	88.9	2.6	80 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	19	5.75	C			
64	CHS Grade C250LO	114.3	3.2	100 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	19	6.64	C			
65	CHS Grade C250LO	139.7	3.0	125 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	13	9.05	B			UP
66	CHS Grade C250LO	165.1	3.0	150 XL	Hot Dip Gal	Plain Ends	Extra Light	6.5	10	10.50	C			
67	CHS Grade C250LO	28.9	2.0	20 XL	SupaGal	Plain Ends	Extra Light	6.5	127	1.28	B			
68	CHS Grade C250LO	33.7	2.0	25 XL	SupaGal	Plain Ends	Extra Light	6.5	91	1.62	A			
69	CHS Grade C250LO	42.4	2.0	32 XL	SupaGal	Plain Ends	Extra Light	6.5	61	2.07	B			
70	CHS Grade C250LO	48.3	2.3	40 XL	SupaGal	Plain Ends	Extra Light	6.5	61	2.70	B			
71	CHS Grade C250LO	60.3	2.3	50 XL	SupaGal	Plain Ends	Extra Light	6.5	37	3.40	B			
72	CHS Grade C250LO	76.1	2.3	65 XL	SupaGal	Plain Ends	Extra Light	6.5	37	4.33	B			DOWN
73	CHS Grade C250LO	88.9	2.6	80 XL	SupaGal	Plain Ends	Extra Light	6.5	19	5.75	C			DOWN
74	CHS Grade C250LO	101.6	2.6	80 XL	SupaGal	Plain Ends	Extra Light	6.5	19	6.64				
75	CHS Grade C250LO	114.3	3.2	100 XL	SupaGal	Plain Ends	Extra Light	6.5	19	9.05				
76	CHS Grade C250LO	139.7	3.0	125 XL	SupaGal	Plain Ends	Extra Light	6.5	13	10.50				
77	CHS Grade C250LO	165.1	3.0	150 XL	SupaGal	Plain Ends	Extra Light	6.5	10	12.40				
78	CHS Grade C250LO	28.9	2.0	20 XL	DuraGal	Plain Ends	Extra Light	6.5	127	1.28	B			
79	CHS Grade C250LO	33.7	2.0	25 XL	DuraGal	Plain Ends	Extra Light	6.5	91	1.62	B			
80	CHS Grade C250LO	42.4	2.0	32 XL	DuraGal	Plain Ends	Extra Light	6.5	61	2.07	B			
81	CHS Grade C250LO	48.3	2.3	40 XL	DuraGal	Plain Ends	Extra Light	6.5	61	2.70	B			
82	CHS Grade C250LO	60.3	2.3	50 XL	DuraGal	Plain Ends	Extra Light	6.5	37	3.40	B			
83	CHS Grade C250LO	76.1	2.3	65 XL	DuraGal	Plain Ends	Extra Light	6.5	37	4.33	B			
84	CHS Grade C250LO	88.9	2.6	80 XL	DuraGal	Plain Ends	Extra Light	6.5	19	5.75				
85	CHS Grade C250LO	101.6	2.6	80 XL	DuraGal	Plain Ends	Extra Light	6.5	19	6.64				
86	CHS Grade C250LO	114.3	3.2	100 XL	DuraGal	Plain Ends	Extra Light	6.5	19	9.05				
87	CHS Grade C250LO	139.7	3.0	125 XL	DuraGal	Plain Ends	Extra Light	6.5	13	10.50				
88	CHS Grade C250LO	165.1	3.0	150 XL	DuraGal	Plain Ends	Extra Light	6.5	10	12.40				
89	CHS Grade C250LO	28.9	2.0	20 XL	Clear	Plain Ends	Extra Light	6.5	127	1.40	B			DOWN
90	CHS Grade C250LO	33.7	2.0	25 L	Clear	Plain Ends	Light	6.5	91	1.99	A			UP
91	CHS Grade C250LO	42.4	2.6	32 L	Clear	Plain Ends	Light	6.5	61	2.55	A			UP
92	CHS Grade C250LO	48.3	2.9	40 L	Clear	Plain Ends	Light	6.5	61	3.25	A			UP
93	CHS Grade C250LO	60.3	2.9	50 L	Clear	Plain Ends	Light	6.5	37	4.11	B			UP
94	CHS Grade C250LO	76.1	3.2	65 L	Clear	Plain Ends	Light	6.5	37	5.75	B			UP
95	CHS Grade C250LO	88.9	3.2	80 L	Clear	Plain Ends	Light	6.5	19	6.76	A			UP
96	CHS Grade C250LO	101.6	3.2	90 L	Clear	Plain Ends	Light	6.5	19	7.77	B			UP
97	CHS Grade C250LO	114.3	3.6	100 L	Clear	Plain Ends	Light	6.5	19	9.83	A			UP
98	CHS Grade C250LO	139.7	3.5	125 L	Clear	Plain Ends	Light	6.5	13	11.80	A			UP
99	CHS Grade C250LO	165.1	3.5	150 L	Clear	Plain Ends	Light	6.5	10	13.90	A			UP
100	CHS Grade C250LO	28.9	2.3	20 L	Hot Dip Gal	Plain Ends	Light	6.5	127	1.44	B			UP

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Line	Description	doid	b	i	DN	Finish	Ends	Thickness Range	Length	Peck	kg/m	1/02/2011	27/11/2009	Change
101	CHS Grade C250LO	37.7	2.6	25 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	91	2.06	A	A	
102	CHS Grade C250LO	42.4	2.6	32 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	61	2.63	A	A	
103	CHS Grade C250LO	48.3	2.9	40 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	61	3.33	B	A	DOWN
104	CHS Grade C250LO	60.3	2.9	50 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	37	4.21	B	A	DOWN
105	CHS Grade C250LO	76.1	3.2	65 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	37	5.89	B	B	
106	CHS Grade C250LO	88.9	3.2	80 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	19	6.92	B	B	
107	CHS Grade C250LO	101.6	3.2	90 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	19	8.02	B	B	
108	CHS Grade C250LO	114.3	3.6	100 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	19	10.00	B	B	
109	CHS Grade C250LO	139.7	3.5	125 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	13	12.10	C	C	
110	CHS Grade C250LO	165.1	3.5	150 L	Hot Dip Gal	Light	Plain Ends	Light	6.5	10	14.40	B	B	
111	CHS Grade C250LO	26.9	2.0	20 XL	Clear	Swagged One End	Swagged One End	Extra Light	6.5	127	1.23	A	A	
112	CHS Grade C250LO	33.7	2.0	25 XL	Clear	Swagged One End	Swagged One End	Extra Light	6.5	91	1.56	A	A	
113	CHS Grade C250LO	39.7	2.6	25 L	Clear	Swagged One End	Swagged One End	Extra Light	6.5	91	1.99	A	A	
114	CHS Grade C250LO	42.4	2.0	32 XL	Clear	Swagged One End	Swagged One End	Extra Light	6.5	61	2.55	A	A	
115	CHS Grade C250LO	42.4	2.6	32 L	Clear	Swagged One End	Swagged One End	Extra Light	6.5	61	2.55	A	A	
116	CHS Grade C250LO	48.3	2.9	40 XL	Clear	Swagged One End	Swagged One End	Extra Light	6.5	61	2.61	A	A	
117	CHS Grade C250LO	48.3	2.9	40 L	Clear	Swagged One End	Swagged One End	Extra Light	6.5	61	3.25	A	A	
118	CHS Grade C250LO	60.3	2.9	50 XL	Clear	Swagged One End	Swagged One End	Extra Light	6.5	37	3.29	A	A	
119	CHS Grade C250LO	60.3	2.3	50 L	Clear	Swagged One End	Swagged One End	Extra Light	6.5	37	4.11	A	A	
120	CHS Grade C250LO	26.9	2.0	20 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	127	1.28	B	B	
121	CHS Grade C250LO	33.7	2.0	25 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	91	1.62	B	B	
122	CHS Grade C250LO	33.7	2.6	25 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	91	2.05	B	B	
123	CHS Grade C250LO	42.4	2.0	32 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.07	B	A	DOWN
124	CHS Grade C250LO	42.4	2.6	32 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.63	B	A	DOWN
125	CHS Grade C250LO	48.3	2.3	40 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.70	B	B	
126	CHS Grade C250LO	48.3	2.9	40 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	3.33	B	B	
127	CHS Grade C250LO	60.3	2.9	50 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	37	3.40	B	B	
128	CHS Grade C250LO	60.3	2.3	50 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	37	4.21	B	B	
129	CHS Grade C250LO	26.9	2.0	20 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	127	1.28	B	B	
130	CHS Grade C250LO	33.7	2.0	25 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	91	1.62	B	B	
131	CHS Grade C250LO	33.7	2.6	25 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	91	2.05	B	B	
132	CHS Grade C250LO	42.4	2.0	32 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.07	B	B	
133	CHS Grade C250LO	42.4	2.6	32 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.63	B	B	
134	CHS Grade C250LO	48.3	2.3	40 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	2.70	B	B	
135	CHS Grade C250LO	48.3	2.9	40 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	61	3.33	B	B	
136	CHS Grade C250LO	60.3	2.9	50 XL	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Extra Light	6.5	37	3.40	B	B	
137	CHS Grade C250LO	60.3	2.6	50 L	Hot Dip Gal	Swagged Both Ends	Swagged Both Ends	Medium	6.5	37	4.21	B	A	DOWN
138	CHS Grade C250LO	21.3	2.6	15 M	Clear	Plain Ends	Plain Ends	Medium	6.5	217	1.21	B	A	
139	CHS Grade C250LO	26.9	2.6	20 M	Clear	Plain Ends	Plain Ends	Medium	6.5	127	1.56	A	A	
140	CHS Grade C250LO	33.7	3.2	25 M	Clear	Plain Ends	Plain Ends	Medium	6.5	91	2.41	A	A	
141	CHS Grade C250LO	42.4	3.2	32 M	Clear	Plain Ends	Plain Ends	Medium	6.5	61	3.10	A	A	
142	CHS Grade C250LO	48.3	3.2	40 M	Clear	Plain Ends	Plain Ends	Medium	6.5	61	3.57	A	A	
143	CHS Grade C250LO	60.3	3.6	50 M	Clear	Plain Ends	Plain Ends	Medium	6.5	37	5.03	A	A	
144	CHS Grade C250LO	76.1	3.6	65 M	Clear	Plain Ends	Plain Ends	Medium	6.5	37	6.43	A	A	
145	CHS Grade C250LO	88.9	4.0	80 M	Clear	Plain Ends	Plain Ends	Medium	6.5	19	8.37	A	A	
146	CHS Grade C250LO	101.6	4.0	90 M	Clear	Plain Ends	Plain Ends	Medium	6.5	19	9.63	A	B	UP
147	CHS Grade C250LO	114.3	4.5	100 M	Clear	Plain Ends	Plain Ends	Medium	6.5	19	12.20	A	A	
148	CHS Grade C250LO	139.7	5.0	125 M	Clear	Plain Ends	Plain Ends	Medium	6.5	13	16.60	A	A	
149	CHS Grade C250LO	165.1	5.0	150 M	Clear	Plain Ends	Plain Ends	Medium	6.5	10	19.70	A	A	
150	CHS Grade C250LO	21.3	2.6	15 M	Clear	Screwed One End	Screwed One End	Medium	6.5	217	1.21	A	A	

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Line	Description	d/d	b	t	DN	Finish	Ends	Thickness	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
151	CHS Grade C250LO	26.9		2.6	20 M	Clear	Screwed One End	Medium	6.5	127	1.56	B		
152	CHS Grade C250LO	33.7		3.2	25 M	Clear	Screwed One End	Medium	6.5	91	2.41		B	
153	CHS Grade C250LO	42.4		3.2	32 M	Clear	Screwed One End	Medium	6.5	61	3.10			
154	CHS Grade C250LO	48.3		3.2	40 M	Clear	Screwed One End	Medium	6.5	37	3.57			
155	CHS Grade C250LO	60.3		3.6	50 M	Clear	Screwed One End	Medium	6.5	37	5.03			
156	CHS Grade C250LO	76.1		3.6	65 M	Clear	Screwed One End	Medium	6.5	19	8.37			
157	CHS Grade C250LO	88.9		4.0	80 M	Clear	Screwed One End	Medium	6.5	19	9.63			
158	CHS Grade C250LO	101.6		4.5	100 M	Clear	Screwed One End	Medium	6.5	13	16.60			
159	CHS Grade C250LO	114.3		5.0	125 M	Clear	Screwed One End	Medium	6.5	10	19.70			
160	CHS Grade C250LO	139.7		5.0	150 M	Clear	Screwed One End	Medium	6.5	10	19.70			
161	CHS Grade C250LO	165.1		5.0	150 M	Clear	Screwed Both Ends	Medium	6.5	217	1.21			
162	CHS Grade C250LO	21.3		2.6	15 M	Clear	Screwed Both Ends	Medium	6.5	127	1.56	B		
163	CHS Grade C250LO	26.9		2.6	20 M	Clear	Screwed Both Ends	Medium	6.5	91	2.41	B		
164	CHS Grade C250LO	33.7		3.2	25 M	Clear	Screwed Both Ends	Medium	6.5	61	3.10	B		
165	CHS Grade C250LO	42.4		3.2	32 M	Clear	Screwed Both Ends	Medium	6.5	37	3.57	B		
166	CHS Grade C250LO	48.3		3.2	40 M	Clear	Screwed Both Ends	Medium	6.5	37	5.03	B		
167	CHS Grade C250LO	60.3		3.6	50 M	Clear	Screwed Both Ends	Medium	6.5	37	5.03	B		
168	CHS Grade C250LO	76.1		3.6	65 M	Clear	Screwed Both Ends	Medium	6.5	37	6.43			
169	CHS Grade C250LO	88.9		4.0	80 M	Clear	Screwed Both Ends	Medium	6.5	19	8.37			
170	CHS Grade C250LO	101.6		4.0	90 M	Clear	Screwed Both Ends	Medium	6.5	19	9.63			
171	CHS Grade C250LO	114.3		4.5	100 M	Clear	Screwed Both Ends	Medium	6.5	19	12.20			
172	CHS Grade C250LO	139.7		5.0	125 M	Clear	Screwed Both Ends	Medium	6.5	13	16.60			
173	CHS Grade C250LO	165.1		5.0	150 M	Clear	Screwed Both Ends	Medium	6.5	10	19.70			
174	CHS Grade C250LO	21.3		2.6	15 M	Clear	Screwed & Socketed	Medium	6.5	217	1.57			
175	CHS Grade C250LO	26.9		2.6	20 M	Clear	Screwed & Socketed	Medium	6.5	91	2.44			
176	CHS Grade C250LO	33.7		3.2	25 M	Clear	Screwed & Socketed	Medium	6.5	61	3.14			
177	CHS Grade C250LO	42.4		3.2	32 M	Clear	Screwed & Socketed	Medium	6.5	61	3.61			
178	CHS Grade C250LO	48.3		3.2	40 M	Clear	Screwed & Socketed	Medium	6.5	37	5.10			
179	CHS Grade C250LO	60.3		3.6	50 M	Clear	Screwed & Socketed	Medium	6.5	37	6.53			
180	CHS Grade C250LO	76.1		3.6	65 M	Clear	Screwed & Socketed	Medium	6.5	19	8.52			
181	CHS Grade C250LO	88.9		4.0	80 M	Clear	Screwed & Socketed	Medium	6.5	19	9.63			
182	CHS Grade C250LO	101.6		4.0	90 M	Clear	Screwed & Socketed	Medium	6.5	19	12.40			
183	CHS Grade C250LO	114.3		4.5	100 M	Clear	Screwed & Socketed	Medium	6.5	13	17.00			
184	CHS Grade C250LO	139.7		5.0	125 M	Clear	Screwed & Socketed	Medium	6.5	10	20.20			
185	CHS Grade C250LO	165.1		5.0	150 M	Clear	Screwed & Socketed	Medium	6.5	10	20.20			
186	CHS Grade C250LO	26.9		2.6	20 M	Hot Dip Gal	Plain Ends	Medium	6.5	127	1.60	B	A	UP
187	CHS Grade C250LO	33.7		3.2	25 M	Hot Dip Gal	Plain Ends	Medium	6.5	91	2.47	A	A	DOWN
188	CHS Grade C250LO	42.4		3.2	32 M	Hot Dip Gal	Plain Ends	Medium	6.5	61	3.18	A	A	
189	CHS Grade C250LO	48.3		3.2	40 M	Hot Dip Gal	Plain Ends	Medium	6.5	61	3.65	A	A	
190	CHS Grade C250LO	60.3		3.6	50 M	Hot Dip Gal	Plain Ends	Medium	6.5	37	5.14	A	A	
191	CHS Grade C250LO	76.1		3.6	65 M	Hot Dip Gal	Plain Ends	Medium	6.5	37	6.56	A	A	
192	CHS Grade C250LO	88.9		4.0	80 M	Hot Dip Gal	Plain Ends	Medium	6.5	19	8.53	B	A	
193	CHS Grade C250LO	101.6		4.0	90 M	Hot Dip Gal	Plain Ends	Medium	6.5	19	9.81	A	A	
194	CHS Grade C250LO	114.3		4.5	100 M	Hot Dip Gal	Plain Ends	Medium	6.5	19	12.40	A	A	
195	CHS Grade C250LO	139.7		5.0	125 M	Hot Dip Gal	Plain Ends	Medium	6.5	13	16.90	A	A	
196	CHS Grade C250LO	165.1		5.0	150 M	Hot Dip Gal	Plain Ends	Medium	6.5	10	20.00	A	A	
197	CHS Grade C250LO	26.9		2.6	20 M	Hot Dip Gal	Screwed One End	Medium	6.5	127	1.60	B	B	
198	CHS Grade C250LO	33.7		3.2	25 M	Hot Dip Gal	Screwed One End	Medium	6.5	91	2.47	B	B	
199	CHS Grade C250LO	42.4		3.2	32 M	Hot Dip Gal	Screwed One End	Medium	6.5	61	3.18	B	B	

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Line	Description	d/d	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
200	CHS Grade C250LO	48.3		3.2	40 M	Hot Dip Gal	Screwed One End	Medium	6.5	61	3.65	B	B	
201	CHS Grade C250LO	60.3		3.6	50 M	Hot Dip Gal	Screwed One End	Medium	6.5	37	5.14	B	B	
202	CHS Grade C250LO	76.1		3.6	65 M	Hot Dip Gal	Screwed One End	Medium	6.5	37	6.56	B	B	
203	CHS Grade C250LO	88.9		4.0	80 M	Hot Dip Gal	Screwed One End	Medium	6.5	19	8.53	B	B	
204	CHS Grade C250LO	101.6		4.0	90 M	Hot Dip Gal	Screwed One End	Medium	6.5	19	9.81	B	B	
205	CHS Grade C250LO	114.3		4.5	100 M	Hot Dip Gal	Screwed One End	Medium	6.5	19	12.40	B	B	
206	CHS Grade C250LO	139.7		5.0	125 M	Hot Dip Gal	Screwed One End	Medium	6.5	13	16.90	B	B	
207	CHS Grade C250LO	165.1		5.0	150 M	Hot Dip Gal	Screwed One End	Medium	6.5	10	20.00	B	B	
208	CHS Grade C250LO	26.9		2.6	20 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	127	1.60	B	B	
209	CHS Grade C250LO	33.7		3.2	25 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	91	2.47	A	A	
210	CHS Grade C250LO	42.4		3.2	32 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	61	3.16	A	A	
211	CHS Grade C250LO	48.3		3.2	40 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	61	3.65	A	A	
212	CHS Grade C250LO	60.3		3.6	50 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	37	5.14	A	A	
213	CHS Grade C250LO	76.1		3.6	65 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	37	6.56	B	B	
214	CHS Grade C250LO	88.9		4.0	80 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	19	8.53	B	B	
215	CHS Grade C250LO	101.6		4.0	90 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	19	9.81	B	B	
216	CHS Grade C250LO	114.3		4.5	100 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	19	12.40	B	B	DOWN
217	CHS Grade C250LO	139.7		5.0	125 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	13	16.90	B	B	
218	CHS Grade C250LO	165.1		5.0	150 M	Hot Dip Gal	Screwed Both Ends	Medium	6.5	10	20.00	B	B	
219	CHS Grade C250LO	26.9		2.6	20 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	127	1.62	B	B	
220	CHS Grade C250LO	33.7		3.2	25 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	91	2.50	B	B	
221	CHS Grade C250LO	42.4		3.2	32 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	61	3.21	B	B	
222	CHS Grade C250LO	48.3		3.2	40 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	61	3.70	B	B	
223	CHS Grade C250LO	60.3		3.6	50 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	37	5.21	B	B	
224	CHS Grade C250LO	76.1		3.6	65 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	37	6.67	B	B	
225	CHS Grade C250LO	88.9		4.0	80 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	19	8.68	B	B	
226	CHS Grade C250LO	101.6		4.0	90 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	19	12.60	B	B	
227	CHS Grade C250LO	114.3		4.5	100 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	13	17.20	B	B	
228	CHS Grade C250LO	139.7		5.0	125 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	10	20.50	B	B	
229	CHS Grade C250LO	165.1		5.0	150 M	Hot Dip Gal	Screwed & Socketed	Medium	6.5	10	20.50	B	B	
230	CHS Grade C250LO	26.9		3.2	20 H	Clear	Plain Ends	Heavy	6.5	127	1.87	A	A	
231	CHS Grade C250LO	33.7		4.0	25 H	Clear	Plain Ends	Heavy	6.5	91	2.94	A	A	
232	CHS Grade C250LO	42.4		4.0	32 H	Clear	Plain Ends	Heavy	6.5	61	3.80	A	A	
233	CHS Grade C250LO	48.3		4.0	40 H	Clear	Plain Ends	Heavy	6.5	61	4.38	A	A	
234	CHS Grade C250LO	60.3		4.5	50 H	Clear	Plain Ends	Heavy	6.5	37	6.19	A	A	
235	CHS Grade C250LO	76.1		4.5	65 H	Clear	Plain Ends	Heavy	6.5	37	7.93	A	B	UP
236	CHS Grade C250LO	88.9		5.0	80 H	Clear	Plain Ends	Heavy	6.5	19	10.30	A	B	UP
237	CHS Grade C250LO	101.6		5.0	90 H	Clear	Plain Ends	Heavy	6.5	19	11.90	A	A	
238	CHS Grade C250LO	114.3		5.4	100 H	Clear	Plain Ends	Heavy	6.5	13	14.50	A	A	
239	CHS Grade C250LO	139.7		5.4	125 H	Clear	Plain Ends	Heavy	6.5	13	17.90	A	A	
240	CHS Grade C250LO	165.1		5.4	150 H	Clear	Plain Ends	Heavy	6.5	10	21.30	A	B	UP
241	CHS Grade C250LO	26.9		3.2	20 H	Clear	Screwed One End	Heavy	6.5	127	1.87	B	B	
242	CHS Grade C250LO	33.7		4.0	25 H	Clear	Screwed One End	Heavy	6.5	91	2.94	B	B	
243	CHS Grade C250LO	42.4		4.0	32 H	Clear	Screwed One End	Heavy	6.5	61	3.80	B	B	
244	CHS Grade C250LO	48.3		4.0	40 H	Clear	Screwed One End	Heavy	6.5	61	4.38	B	B	
245	CHS Grade C250LO	60.3		4.5	50 H	Clear	Screwed One End	Heavy	6.5	37	6.19	B	B	
246	CHS Grade C250LO	76.1		4.5	65 H	Clear	Screwed One End	Heavy	6.5	37	7.93	B	B	
247	CHS Grade C250LO	88.9		5.0	80 H	Clear	Screwed One End	Heavy	6.5	19	10.30	B	B	
248	CHS Grade C250LO	101.6		5.0	90 H	Clear	Screwed One End	Heavy	6.5	19	11.90	B	B	
249	CHS Grade C250LO	114.3		5.4	100 H	Clear	Screwed One End	Heavy	6.5	13	14.50	B	B	

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Line	Description	doid	b	t	DN	Finish	Ends	Thickness	Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
250	CHS Grade C250LO	139.7	5.4	125 H	Clear	Screwed One End	Heavy	6.5	13	17.60					
251	CHS Grade C250LO	165.1	5.4	150 H	Clear	Screwed One End	heavy	6.5	10	21.30					
252	CHS Grade C250LO	26.9	3.2	20 H	Clear	Screwed Both Ends	heavy	6.5	127	1.87	B			B	
253	CHS Grade C250LO	33.7	4.0	25 H	Clear	Screwed Both Ends	Heavy	6.5	91	2.94	B			B	
254	CHS Grade C250LO	42.4	4.0	32 H	Clear	Screwed Both Ends	Heavy	6.5	61	3.80	B			B	
255	CHS Grade C250LO	48.3	4.0	40 H	Clear	Screwed Both Ends	Heavy	6.5	61	4.38	B			B	
256	CHS Grade C250LO	60.3	4.5	50 H	Clear	Screwed Both Ends	Heavy	6.5	37	6.19	B			B	
257	CHS Grade C250LO	76.1	4.5	65 H	Clear	Screwed Both Ends	Heavy	6.5	37	7.93	B			B	
258	CHS Grade C250LO	88.9	5.0	80 H	Clear	Screwed Both Ends	Heavy	6.5	19	10.30	B			B	
259	CHS Grade C250LO	101.6	5.4	100 H	Clear	Screwed Both Ends	Heavy	6.5	19	11.90					
260	CHS Grade C250LO	114.3	5.0	100 H	Clear	Screwed Both Ends	Heavy	6.5	19	14.50					
261	CHS Grade C250LO	139.7	5.4	125 H	Clear	Screwed Both Ends	Heavy	6.5	13	17.90	B			B	DOWN
262	CHS Grade C250LO	165.1	5.4	150 H	Clear	Screwed Both Ends	Heavy	6.5	10	21.30					
263	CHS Grade C250LO	26.9	3.2	20 H	Clear	Screwed & Socketed	Heavy	6.5	127	1.89					
264	CHS Grade C250LO	33.7	4.0	25 H	Clear	Screwed & Socketed	Heavy	6.5	91	2.96					
265	CHS Grade C250LO	42.4	4.0	32 H	Clear	Screwed & Socketed	Heavy	6.5	61	3.83					
266	CHS Grade C250LO	48.3	4.0	40 H	Clear	Screwed & Socketed	Heavy	6.5	61	4.43					
267	CHS Grade C250LO	60.3	4.5	50 H	Clear	Screwed & Socketed	Heavy	6.5	37	6.26					
268	CHS Grade C250LO	76.1	4.5	65 H	Clear	Screwed & Socketed	Heavy	6.5	37	8.04					
269	CHS Grade C250LO	88.9	5.0	80 H	Clear	Screwed & Socketed	Heavy	6.5	19	10.50					
270	CHS Grade C250LO	101.6	5.4	100 H	Clear	Screwed & Socketed	Heavy	6.5	19	14.70	B			B	
271	CHS Grade C250LO	114.3	5.0	100 H	Clear	Screwed & Socketed	Heavy	6.5	19	18.20					
272	CHS Grade C250LO	139.7	5.4	125 H	Clear	Screwed & Socketed	Heavy	6.5	13	21.70					
273	CHS Grade C250LO	165.1	5.4	150 H	Clear	Screwed & Socketed	Heavy	6.5	10	27.00					
274	CHS Grade C250LO	26.9	3.2	20 H	Hot Dip Gal	Plain Ends	Heavy	6.5	127	1.92	B			B	
275	CHS Grade C250LO	33.7	4.0	25 H	Hot Dip Gal	Plain Ends	Heavy	6.5	91	3.00	B			B	
276	CHS Grade C250LO	42.4	4.0	32 H	Hot Dip Gal	Plain Ends	Heavy	6.5	61	3.87	A			A	DOWN
277	CHS Grade C250LO	48.3	4.0	40 H	Hot Dip Gal	Plain Ends	Heavy	6.5	61	4.46	B			B	
278	CHS Grade C250LO	60.3	4.5	50 H	Hot Dip Gal	Plain Ends	Heavy	6.5	37	6.30	A			A	
279	CHS Grade C250LO	76.1	4.5	65 H	Hot Dip Gal	Plain Ends	Heavy	6.5	37	8.07	B			B	
280	CHS Grade C250LO	88.9	5.0	80 H	Hot Dip Gal	Plain Ends	Heavy	6.5	19	10.50	A			A	UP
281	CHS Grade C250LO	101.6	5.4	100 H	Hot Dip Gal	Plain Ends	Heavy	6.5	19	12.10	B			B	
282	CHS Grade C250LO	114.3	5.0	100 H	Hot Dip Gal	Plain Ends	Heavy	6.5	19	14.70	B			B	
283	CHS Grade C250LO	139.7	5.4	125 H	Hot Dip Gal	Plain Ends	Heavy	6.5	13	18.10	B			B	
284	CHS Grade C250LO	165.1	5.4	150 H	Hot Dip Gal	Plain Ends	Heavy	6.5	10	21.60	B			B	
285	CHS Grade C250LO	26.9	3.2	20 H	Hot Dip Gal	Screwed One End	Heavy	6.5	127	1.92	B			B	
286	CHS Grade C250LO	33.7	4.0	25 H	Hot Dip Gal	Screwed One End	Heavy	6.5	91	3.00	B			B	
287	CHS Grade C250LO	42.4	4.0	32 H	Hot Dip Gal	Screwed One End	Heavy	6.5	61	3.87	B			B	
288	CHS Grade C250LO	48.3	4.0	40 H	Hot Dip Gal	Screwed One End	Heavy	6.5	61	4.46	B			B	
289	CHS Grade C250LO	60.3	4.5	50 H	Hot Dip Gal	Screwed One End	Heavy	6.5	37	6.30	B			B	
290	CHS Grade C250LO	76.1	4.5	65 H	Hot Dip Gal	Screwed One End	Heavy	6.5	37	8.07	B			B	
291	CHS Grade C250LO	88.9	5.0	80 H	Hot Dip Gal	Screwed One End	Heavy	6.5	19	10.50	B			B	
292	CHS Grade C250LO	101.6	5.0	90 H	Hot Dip Gal	Screwed One End	Heavy	6.5	19	12.10	B			B	
293	CHS Grade C250LO	114.3	5.4	100 H	Hot Dip Gal	Screwed One End	Heavy	6.5	19	14.70	B			B	
294	CHS Grade C250LO	139.7	5.4	125 H	Hot Dip Gal	Screwed One End	Heavy	6.5	13	18.10	B			B	
295	CHS Grade C250LO	165.1	5.4	150 H	Hot Dip Gal	Screwed One End	Heavy	6.5	10	21.60	B			B	
296	CHS Grade C250LO	26.9	3.2	20 H	Hot Dip Gal	Screwed Both Ends	Heavy	6.5	127	1.92	B			B	
297	CHS Grade C250LO	33.7	4.0	25 H	Hot Dip Gal	Screwed Both Ends	Heavy	6.5	91	3.00	B			B	
298	CHS Grade C250LO	42.4	4.0	32 H	Hot Dip Gal	Screwed Both Ends	Heavy	6.5	61	3.87	B			B	
299	CHS Grade C250LO	48.3	4.0	40 H	Hot Dip Gal	Screwed Both Ends	Heavy	6.5	61	4.46	B			B	

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Line	Description	d/old	b	t	i	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
348	SHS Grade C350LO	25.0	25.0	1.6			Painted			6.5	100	1.12	A	A	
349	SHS Grade C350LO	25.0	25.0	2.0			Painted			6.5	100	1.36	A	A	
350	SHS Grade C350LO	25.0	25.0	2.5			Painted			6.5	100	1.64	A	A	
351	SHS Grade C350LO	25.0	25.0	3.0			Painted			6.5	100	1.89	A	A	
352	SHS Grade C350LO	30.0	30.0	1.6			Painted			8	100	1.36	B	B	
353	SHS Grade C350LO	30.0	30.0	2.0			Painted			8	100	1.68	A	A	
354	SHS Grade C350LO	30.0	30.0	2.5			Painted			8	100	2.03	A	B	UP
355	SHS Grade C350LO	30.0	30.0	3.0			Painted			8	84	2.36	C	B	DOWN
356	SHS Grade C350LO	35.0	35.0	1.6			Painted			8	100	1.63	B	B	
357	SHS Grade C350LO	35.0	35.0	2.0			Painted			8	100	1.99	A	A	
358	SHS Grade C350LO	35.0	35.0	2.5			Painted			8	64	2.42	A	A	
359	SHS Grade C350LO	35.0	35.0	3.0			Painted			8	64	2.83	A	A	
360	SHS Grade C350LO	40.0	40.0	1.6			Painted			8	81	1.88	A	A	
361	SHS Grade C350LO	40.0	40.0	2.0			Painted			8	81	2.31	A	A	
362	SHS Grade C350LO	40.0	40.0	2.5			Painted			8	64	2.82	A	A	
363	SHS Grade C350LO	40.0	40.0	3.0			Painted			8	64	3.30	A	A	
364	SHS Grade C350LO	40.0	40.0	4.0			Painted			8	49	4.09	A	A	
365	SHS Grade C350LO	50.0	50.0	1.6			Painted			8	64	2.38	A	A	
366	SHS Grade C350LO	50.0	50.0	2.0			Painted			8	64	2.93	A	A	
367	SHS Grade C350LO	50.0	50.0	2.5			Painted			8	49	3.60	A	A	
368	SHS Grade C350LO	50.0	50.0	3.0			Painted			8	49	4.25	A	A	
369	SHS Grade C350LO	50.0	50.0	4.0			Painted			8	36	5.26	A	A	
370	SHS Grade C350LO	50.0	50.0	5.0			Painted			8	30	6.39	A	A	
371	SHS Grade C350LO	50.0	50.0	6.0			Painted			8	23	7.32	A	A	
372	SHS Grade C350LO	20.0	20.0	1.6			SupaGal			6.5	96	0.87	A	A	
373	SHS Grade C350LO	20.0	20.0	2.0			SupaGal			6.5	96	1.05	C	B	DOWN
374	SHS Grade C350LO	25.0	25.0	1.6			SupaGal			6.5	100	1.12	A	A	
375	SHS Grade C350LO	25.0	25.0	2.0			SupaGal			6.5	100	1.36	A	A	
376	SHS Grade C350LO	25.0	25.0	2.5			SupaGal			6.5	100	1.64	A	A	
377	SHS Grade C350LO	25.0	25.0	3.0			SupaGal			6.5	100	1.89	C	B	DOWN
378	SHS Grade C350LO	30.0	30.0	1.6			SupaGal			8	100	1.38	A	B	UP
379	SHS Grade C350LO	30.0	30.0	2.0			SupaGal			8	100	1.68	A	B	UP
380	SHS Grade C350LO	30.0	30.0	2.5			SupaGal			8	100	2.03	C	B	DOWN
381	SHS Grade C350LO	30.0	30.0	3.0			SupaGal			8	64	2.36	C	B	DOWN
382	SHS Grade C350LO	35.0	35.0	1.6			SupaGal			8	100	1.63	A	B	UP
383	SHS Grade C350LO	35.0	35.0	2.0			SupaGal			8	100	1.99	A	B	UP
384	SHS Grade C350LO	35.0	35.0	2.5			SupaGal			8	64	2.43	A	A	
385	SHS Grade C350LO	35.0	35.0	3.0			SupaGal			8	64	2.83	C	B	DOWN
386	SHS Grade C350LO	40.0	40.0	1.6			SupaGal			8	81	1.88	A	A	
387	SHS Grade C350LO	40.0	40.0	2.0			SupaGal			8	81	2.31	A	A	
388	SHS Grade C350LO	40.0	40.0	2.5			SupaGal			8	64	2.82	A	A	
389	SHS Grade C350LO	40.0	40.0	3.0			SupaGal			8	64	3.30	A	A	
390	SHS Grade C350LO	40.0	40.0	4.0			SupaGal			8	49	4.09	A	B	UP
391	SHS Grade C350LO	50.0	50.0	1.6			SupaGal			8	64	2.38	A	A	
392	SHS Grade C350LO	50.0	50.0	2.0			SupaGal			8	64	2.93	A	A	
393	SHS Grade C350LO	50.0	50.0	2.5			SupaGal			8	49	3.60	A	A	
394	SHS Grade C350LO	50.0	50.0	3.0			SupaGal			8	49	4.25	A	A	
395	SHS Grade C350LO	50.0	50.0	4.0			SupaGal			8	36	5.26	A	A	
396	SHS Grade C350LO	50.0	50.0	5.0			SupaGal			8	30	6.39	A	A	
397	SHS Grade C350LO	50.0	50.0	6.0			SupaGal			8	25	7.32	A	B	UP

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Line	Description	d/d	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
398	SHS Grade C450PLUS	20.0	20.0	1.6		DuraGal			6.5	96	0.87	A	A	
399	SHS Grade C450PLUS	20.0	20.0	2.0		DuraGal			6.5	96	1.05	A	A	
400	SHS Grade C450PLUS	25.0	25.0	1.6		DuraGal			6.5	100	1.12	A	A	
401	SHS Grade C450PLUS	25.0	25.0	2.0		DuraGal			6.5	100	1.36	A	A	
402	SHS Grade C450PLUS	25.0	25.0	2.5		DuraGal			6.5	100	1.64	A	A	
403	SHS Grade C450PLUS	25.0	25.0	3.0		DuraGal			6.5	100	1.89	B	B	
404	SHS Grade C450PLUS	30.0	30.0	1.6		DuraGal			8	100	1.38	A	A	
405	SHS Grade C450PLUS	30.0	30.0	2.0		DuraGal			8	100	1.68	A	A	
406	SHS Grade C450PLUS	30.0	30.0	2.5		DuraGal			8	100	2.03	A	A	
407	SHS Grade C450PLUS	30.0	30.0	3.0		DuraGal			8	64	2.36	A	A	
408	SHS Grade C450PLUS	35.0	35.0	1.6		DuraGal			8	100	1.63	A	A	
409	SHS Grade C450PLUS	35.0	35.0	2.0		DuraGal			8	100	1.99	A	A	
410	SHS Grade C450PLUS	35.0	35.0	2.5		DuraGal			8	64	2.42	A	A	
411	SHS Grade C450PLUS	35.0	35.0	3.0		DuraGal			8	64	2.84	B	B	
412	SHS Grade C450PLUS	40.0	40.0	1.6		DuraGal			8	81	1.88	A	A	
413	SHS Grade C450PLUS	40.0	40.0	2.0		DuraGal			8	81	2.31	A	A	
414	SHS Grade C450PLUS	40.0	40.0	2.5		DuraGal			8	64	2.82	A	A	
415	SHS Grade C450PLUS	40.0	40.0	3.0		DuraGal			8	64	3.30	A	A	
416	SHS Grade C450PLUS	40.0	40.0	4.0		DuraGal			8	49	4.09	A	A	
417	SHS Grade C450PLUS	50.0	50.0	1.6		DuraGal			8	64	2.38	A	A	
418	SHS Grade C450PLUS	50.0	50.0	2.0		DuraGal			8	64	2.93	A	A	
419	SHS Grade C450PLUS	50.0	50.0	2.5		DuraGal			8	49	3.60	A	A	
420	SHS Grade C450PLUS	50.0	50.0	3.0		DuraGal			8	49	4.25	A	A	
421	SHS Grade C450PLUS	50.0	50.0	4.0		DuraGal			8	36	5.35	A	A	
422	SHS Grade C450PLUS	50.0	50.0	5.0		DuraGal			8	30	6.98	A	A	
423	SHS Grade C450PLUS	50.0	50.0	6.0		DuraGal			8	25	7.92	A	A	
424	SHS Grade C450PLUS	65.0	65.0	1.6		Painted			12	49	3.13	C	C	
425	SHS Grade C450PLUS	65.0	65.0	2.0		Painted			12	42	3.88	B	B	
426	SHS Grade C450PLUS	65.0	65.0	2.5		Painted			12	42	4.78	A	A	UP
427	SHS Grade C450PLUS	65.0	65.0	3.0		Painted			12	36	5.66	A	A	
428	SHS Grade C450PLUS	65.0	65.0	4.0		Painted			12	30	7.25	A	A	
429	SHS Grade C450PLUS	65.0	65.0	5.0		Painted			12	25	8.75	A	B	UP
430	SHS Grade C450PLUS	65.0	65.0	6.0		Painted			12	20	10.10	A	B	UP
431	SHS Grade C450PLUS	75.0	75.0	2.0		Painted			8	36	4.50	A	B	UP
432	SHS Grade C450PLUS	75.0	75.0	2.5		Painted			8	30	5.56	A	B	UP
433	SHS Grade C450PLUS	75.0	75.0	3.0		Painted			8	30	6.60	A	A	
434	SHS Grade C450PLUS	75.0	75.0	3.5		Painted			8	25	7.53	A	B	UP
435	SHS Grade C450PLUS	75.0	75.0	4.0		Painted			8	25	8.49	A	A	
436	SHS Grade C450PLUS	75.0	75.0	5.0		Painted			8	20	10.30	A	A	
437	SHS Grade C450PLUS	75.0	75.0	6.0		Painted			8	16	12.00	A	A	
438	SHS Grade C450PLUS	80.0	80.0	2.0		Painted			8	20	5.38	A	A	
439	SHS Grade C450PLUS	80.0	80.0	3.0		Painted			8	20	9.07	A	A	
440	SHS Grade C450PLUS	80.0	80.0	5.0		Painted			8	16	12.50	A	A	
441	SHS Grade C450PLUS	80.0	80.0	6.0		Painted			8	12	14.70	A	A	
442	SHS Grade C450PLUS	100.0	100.0	2.0		Painted			8	20	6.07	B	B	
443	SHS Grade C450PLUS	100.0	100.0	2.5		Painted			8	20	7.53	C	C	UP
444	SHS Grade C450PLUS	100.0	100.0	3.0		Painted			8	20	8.96	A	A	
445	SHS Grade C450PLUS	100.0	100.0	4.0		Painted			8	16	11.60	A	A	
446	SHS Grade C450PLUS	100.0	100.0	5.0		Painted			8	12	14.20	A	A	
447	SHS Grade C450PLUS	100.0	100.0	6.0		Painted			8	12	16.70	A	A	

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Line	Description	do/d	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
448	SHS Grade C450PLUS	100.0	100.0	8.0		Painted			12	6	21.40			
449	SHS Grade C450PLUS	100.0	100.0	9.0		Painted			8	9	23.50			
450	SHS Grade C450PLUS	100.0	100.0	10.0		Painted			12	6	25.60			
451	SHS Grade C450PLUS	125.0	125.0	4.0		Painted			8	12	14.80	A		
452	SHS Grade C450PLUS	125.0	125.0	5.0		Painted			8	12	18.20	A		
453	SHS Grade C450PLUS	125.0	125.0	6.0		Painted			8	9	21.40	A		
454	SHS Grade C450PLUS	125.0	125.0	8.0		Painted			12	4	27.70	A		
455	SHS Grade C450PLUS	125.0	125.0	9.0		Painted			8	8	30.60			
456	SHS Grade C450PLUS	125.0	125.0	10.0		Painted			12	4	33.40			
457	SHS Grade C450PLUS	65.0	65.0	1.6		Clear			12	49	3.13			
458	SHS Grade C450PLUS	65.0	65.0	2.0		Clear			12	42	3.88			
459	SHS Grade C450PLUS	65.0	65.0	2.5		Clear			12	43	4.78			
460	SHS Grade C450PLUS	65.0	65.0	3.0		Clear			12	36	5.66			
461	SHS Grade C450PLUS	65.0	65.0	4.0		Clear			12	30	7.25			
462	SHS Grade C450PLUS	65.0	65.0	5.0		Clear			12	29	8.75			
463	SHS Grade C450PLUS	65.0	65.0	6.0		Clear			12	20	10.10			
464	SHS Grade C450PLUS	75.0	75.0	2.0		Clear			8	36	4.50			
465	SHS Grade C450PLUS	75.0	75.0	2.5		Clear			8	30	5.56			
466	SHS Grade C450PLUS	75.0	75.0	3.0		Clear			8	30	6.60			
467	SHS Grade C450PLUS	75.0	75.0	3.5		Clear			8	25	7.53			
468	SHS Grade C450PLUS	75.0	75.0	4.0		Clear			8	25	8.49			
469	SHS Grade C450PLUS	75.0	75.0	5.0		Clear			8	20	10.30			
470	SHS Grade C450PLUS	75.0	75.0	6.0		Clear			8	16	12.00			
471	SHS Grade C450PLUS	88.0	88.0	2.0		Clear			6	20	5.38			
472	SHS Grade C450PLUS	88.0	88.0	3.5		Clear			8	20	9.07			
473	SHS Grade C450PLUS	88.0	88.0	5.0		Clear			8	16	12.50			
474	SHS Grade C450PLUS	88.0	88.0	6.0		Clear			8	12	14.70			
475	SHS Grade C450PLUS	100.0	100.0	2.0		Clear			8	20	6.07			
476	SHS Grade C450PLUS	100.0	100.0	2.5		Clear			8	20	7.53			
477	SHS Grade C450PLUS	100.0	100.0	3.0		Clear			8	20	8.96			
478	SHS Grade C450PLUS	100.0	100.0	4.0		Clear			8	16	11.60			
479	SHS Grade C450PLUS	100.0	100.0	5.0		Clear			8	12	14.20			
480	SHS Grade C450PLUS	100.0	100.0	6.0		Clear			8	12	16.70			
481	SHS Grade C450PLUS	100.0	100.0	8.0		Clear			12	6	21.40			
482	SHS Grade C450PLUS	100.0	100.0	9.0		Clear			8	9	23.50			
483	SHS Grade C450PLUS	100.0	100.0	10.0		Clear			12	6	25.60			
484	SHS Grade C450PLUS	125.0	125.0	4.0		Clear			8	12	14.80			
485	SHS Grade C450PLUS	125.0	125.0	5.0		Clear			8	12	18.20			
486	SHS Grade C450PLUS	125.0	125.0	6.0		Clear			8	9	21.40			
487	SHS Grade C450PLUS	125.0	125.0	8.0		Clear			12	4	27.70			
488	SHS Grade C450PLUS	125.0	125.0	9.0		Clear			8	8	30.60			
489	SHS Grade C450PLUS	125.0	125.0	10.0		Clear			12	4	33.40			
490	SHS Grade C450PLUS	65.0	65.0	1.6		Oil			12	49	3.13			
491	SHS Grade C450PLUS	65.0	65.0	2.0		Oil			12	42	3.88			
492	SHS Grade C450PLUS	65.0	65.0	2.5		Oil			12	42	4.78			
493	SHS Grade C450PLUS	65.0	65.0	3.0		Oil			12	36	5.66			
494	SHS Grade C450PLUS	65.0	65.0	4.0		Oil			12	30	7.25			
495	SHS Grade C450PLUS	65.0	65.0	5.0		Oil			12	25	8.75			
496	SHS Grade C450PLUS	65.0	65.0	6.0		Oil			12	20	10.10			
497	SHS Grade C450PLUS	75.0	75.0	2.0		Oil			8	36	4.50			

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498	SHS Grade C450PLUS	75.0	75.0	2.5		Oiled			8	30	5.56			
499	SHS Grade C450PLUS	75.0	75.0	3.0		Oiled			8	30	6.60			
500	SHS Grade C450PLUS	75.0	75.0	3.5		Oiled			8	25	7.53			
501	SHS Grade C450PLUS	75.0	75.0	4.0		Oiled			8	25	8.49			
502	SHS Grade C450PLUS	75.0	75.0	5.0		Oiled			8	20	10.30			
503	SHS Grade C450PLUS	75.0	75.0	6.0		Oiled			8	16	12.00			
504	SHS Grade C450PLUS	89.0	89.0	2.0		Oiled			8	20	5.38			
505	SHS Grade C450PLUS	89.0	89.0	3.5		Oiled			8	20	9.07			
506	SHS Grade C450PLUS	89.0	89.0	5.0		Oiled			8	16	12.50			
507	SHS Grade C450PLUS	89.0	89.0	6.0		Oiled			8	12	14.70			
508	SHS Grade C450PLUS	100.0	100.0	2.0		Oiled			8	20	6.07			
509	SHS Grade C450PLUS	100.0	100.0	2.5		Oiled			8	20	7.53			
510	SHS Grade C450PLUS	100.0	100.0	3.0		Oiled			8	20	8.96			
511	SHS Grade C450PLUS	100.0	100.0	4.0		Oiled			8	16	11.60			
512	SHS Grade C450PLUS	100.0	100.0	5.0		Oiled			8	12	14.20			
513	SHS Grade C450PLUS	100.0	100.0	6.0		Oiled			8	12	16.70			
514	SHS Grade C450PLUS	100.0	100.0	8.0		Oiled			12	6	21.40	B	C	UP
515	SHS Grade C450PLUS	100.0	100.0	9.0		Oiled			8	9	23.50	A	A	
516	SHS Grade C450PLUS	100.0	100.0	10.0		Oiled			12	6	25.60	B	B	
517	SHS Grade C450PLUS	125.0	125.0	4.0		Oiled			8	12	14.80			
518	SHS Grade C450PLUS	125.0	125.0	5.0		Oiled			8	12	18.20			
519	SHS Grade C450PLUS	125.0	125.0	6.0		Oiled			8	9	21.40			
520	SHS Grade C450PLUS	125.0	125.0	8.0		Oiled			12	4	27.70	B	B	
521	SHS Grade C450PLUS	125.0	125.0	9.0		Oiled			8	8	30.60	A	A	
522	SHS Grade C450PLUS	125.0	125.0	10.0		Oiled			12	4	33.40	B	B	
523	SHS Grade C450PLUS	65.0	65.0	1.6		SupaGal			12	49	3.73	C	C	
524	SHS Grade C450PLUS	65.0	65.0	2.0		SupaGal			12	42	3.88	C	C	
525	SHS Grade C450PLUS	65.0	65.0	2.5		SupaGal			12	42	4.78	A	A	DOWN
526	SHS Grade C450PLUS	65.0	65.0	3.0		SupaGal			12	36	5.66	A	A	
527	SHS Grade C450PLUS	65.0	65.0	4.0		SupaGal			12	30	7.25	A	A	UP
528	SHS Grade C450PLUS	65.0	65.0	5.0		SupaGal			12	25	8.75	C	B	DOWN
529	SHS Grade C450PLUS	65.0	65.0	6.0		SupaGal			12	20	10.10	B	B	
530	SHS Grade C450PLUS	75.0	75.0	2.0		SupaGal			8	36	4.50	A	B	UP
531	SHS Grade C450PLUS	75.0	75.0	2.5		SupaGal			8	30	5.56	A	A	
532	SHS Grade C450PLUS	75.0	75.0	3.0		SupaGal			8	30	6.60	A	A	
533	SHS Grade C450PLUS	75.0	75.0	3.5		SupaGal			8	25	7.53	A	A	
534	SHS Grade C450PLUS	75.0	75.0	4.0		SupaGal			8	25	8.49	A	A	
535	SHS Grade C450PLUS	75.0	75.0	5.0		SupaGal			8	20	10.30	A	A	
536	SHS Grade C450PLUS	75.0	75.0	6.0		SupaGal			8	16	12.00	A	A	
537	SHS Grade C450PLUS	89.0	89.0	2.0		SupaGal			8	20	5.38	A	A	
538	SHS Grade C450PLUS	89.0	89.0	3.5		SupaGal			8	20	9.07	A	A	
539	SHS Grade C450PLUS	89.0	89.0	5.0		SupaGal			8	16	12.50	A	A	
540	SHS Grade C450PLUS	89.0	89.0	6.0		SupaGal			8	12	14.70	A	A	
541	SHS Grade C450PLUS	100.0	100.0	2.0		SupaGal			8	20	6.07			
542	SHS Grade C450PLUS	100.0	100.0	2.5		SupaGal			8	20	7.53	C	C	
543	SHS Grade C450PLUS	100.0	100.0	3.0		SupaGal			8	20	8.96	A	A	
544	SHS Grade C450PLUS	100.0	100.0	4.0		SupaGal			8	16	11.60	A	A	
545	SHS Grade C450PLUS	100.0	100.0	5.0		SupaGal			8	12	14.20	A	A	
546	SHS Grade C450PLUS	100.0	100.0	6.0		SupaGal			8	12	16.70	A	A	
547	SHS Grade C450PLUS	100.0	100.0	8.0		SupaGal			12	6	21.40			

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Line	Description	doid	b	i	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
548	SHS Grade C450PLUS	100.0	100.0	9.0		SupaGal			8	9	23.60			
549	SHS Grade C450PLUS	100.0	100.0	10.0		SupaGal			12	6	25.60			
550	SHS Grade C450PLUS	125.0	125.0	4.0		SupaGal			8	12	14.80			
551	SHS Grade C450PLUS	125.0	125.0	5.0		SupaGal			8	12	18.20			
552	SHS Grade C450PLUS	125.0	125.0	6.0		SupaGal			8	9	21.40			
553	SHS Grade C450PLUS	125.0	125.0	8.0		SupaGal			12	4	27.70			
554	SHS Grade C450PLUS	125.0	125.0	9.0		SupaGal			8	8	30.60			
555	SHS Grade C450PLUS	125.0	125.0	10.0		SupaGal			12	4	33.40			
556	SHS Grade C450PLUS	65.0	65.0	1.6		DuraGal			12	49	3.13	A	C	UP
557	SHS Grade C450PLUS	65.0	65.0	2.0		DuraGal			12	42	3.88	A	A	
558	SHS Grade C450PLUS	65.0	65.0	2.5		DuraGal			12	42	4.78	A	A	
559	SHS Grade C450PLUS	65.0	65.0	3.0		DuraGal			12	36	5.66	A	A	
560	SHS Grade C450PLUS	65.0	65.0	4.0		DuraGal			12	30	7.25	A	A	
561	SHS Grade C450PLUS	65.0	65.0	5.0		DuraGal			12	25	8.75	B	B	
562	SHS Grade C450PLUS	65.0	65.0	6.0		DuraGal			12	20	10.10	B	B	
563	SHS Grade C450PLUS	75.0	75.0	2.0		DuraGal			8	36	4.50	A	A	
564	SHS Grade C450PLUS	75.0	75.0	2.5		DuraGal			8	30	5.56	A	A	
565	SHS Grade C450PLUS	75.0	75.0	3.0		DuraGal			8	30	6.60	A	A	
566	SHS Grade C450PLUS	75.0	75.0	3.5		DuraGal			8	25	7.53	B	B	
567	SHS Grade C450PLUS	75.0	75.0	4.0		DuraGal			8	25	8.49	A	A	
568	SHS Grade C450PLUS	75.0	75.0	5.0		DuraGal			8	20	10.30	A	A	
569	SHS Grade C450PLUS	75.0	75.0	6.0		DuraGal			8	16	12.00	A	B	UP
570	SHS Grade C450PLUS	89.0	89.0	2.0		DuraGal			8	20	5.38	A	A	
571	SHS Grade C450PLUS	89.0	89.0	3.5		DuraGal			8	20	9.07	A	A	
572	SHS Grade C450PLUS	89.0	89.0	5.0		DuraGal			8	16	12.50	A	A	
573	SHS Grade C450PLUS	89.0	89.0	6.0		DuraGal			8	12	14.70	B	B	
574	SHS Grade C450PLUS	100.0	100.0	2.0		DuraGal			8	20	6.07	A	A	
575	SHS Grade C450PLUS	100.0	100.0	2.5		DuraGal			8	20	7.53	C	C	
576	SHS Grade C450PLUS	100.0	100.0	3.0		DuraGal			8	20	8.96	A	A	
577	SHS Grade C450PLUS	100.0	100.0	4.0		DuraGal			8	16	11.80	A	A	
578	SHS Grade C450PLUS	100.0	100.0	5.0		DuraGal			8	12	14.20	A	A	
579	SHS Grade C450PLUS	100.0	100.0	6.0		DuraGal			8	12	16.70	A	A	
580	SHS Grade C450PLUS	100.0	100.0	8.0		DuraGal			12	6	21.40			
581	SHS Grade C450PLUS	100.0	100.0	9.0		DuraGal			8	9	23.50			
582	SHS Grade C450PLUS	100.0	100.0	10.0		DuraGal			12	6	25.60			
583	SHS Grade C450PLUS	125.0	125.0	4.0		DuraGal			8	12	14.80			
584	SHS Grade C450PLUS	125.0	125.0	5.0		DuraGal			8	12	18.20			
585	SHS Grade C450PLUS	125.0	125.0	6.0		DuraGal			8	9	21.40			
586	SHS Grade C450PLUS	125.0	125.0	8.0		DuraGal			12	4	27.70			
587	SHS Grade C450PLUS	125.0	125.0	9.0		DuraGal			8	8	30.60			
588	SHS Grade C450PLUS	125.0	125.0	10.0		DuraGal			12	4	33.40			
589	SHS Grade C450PLUS	150.0	150.0	5.0		Painted			8	9	22.10	A	A	
590	SHS Grade C450PLUS	150.0	150.0	6.0		Painted			8	6	26.20	A	A	
591	SHS Grade C450PLUS	150.0	150.0	8.0		Painted			12	4	33.90			
592	SHS Grade C450PLUS	150.0	150.0	9.0		Painted			8	6	37.70			
593	SHS Grade C450PLUS	150.0	150.0	10.0		Painted			12	2	41.30			
594	SHS Grade C450PLUS	200.0	200.0	5.0		Painted			8	6	29.90	A	A	
595	SHS Grade C450PLUS	200.0	200.0	6.0		Painted			8	4	35.60	A	A	
596	SHS Grade C450PLUS	200.0	200.0	8.0		Painted			8	4	46.50			
597	SHS Grade C450PLUS	200.0	200.0	9.0		Painted			8	4	51.80			

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Line	Description	dold	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
598	SHS Grade C450PLUS	200.0	200.0	10.0		Painted			12	2	57.00			
599	SHS Grade C450PLUS	200.0	200.0	12.5		Painted			12	2	69.40			
600	SHS Grade C450PLUS	200.0	200.0	16.0		Painted			12	1	85.50			
601	SHS Grade C450PLUS	250.0	250.0	6.0		Painted			12	2	45.00			
602	SHS Grade C450PLUS	250.0	250.0	8.0		Painted			12	2	59.10			
603	SHS Grade C450PLUS	250.0	250.0	9.0		Painted			8	2	65.90			
604	SHS Grade C450PLUS	250.0	250.0	10.0		Painted			12	2	72.70			
605	SHS Grade C450PLUS	250.0	250.0	12.5		Painted			12	1	89.00			
606	SHS Grade C450PLUS	250.0	250.0	16.0		Painted			12	1	111.00			
607	SHS Grade C450PLUS	300.0	300.0	8.0		Painted			12	1	71.60			
608	SHS Grade C450PLUS	300.0	300.0	10.0		Painted			12	1	88.40			
609	SHS Grade C450PLUS	300.0	300.0	12.5		Painted			12	1	109.00			
610	SHS Grade C450PLUS	300.0	300.0	16.0		Painted			12	1	136.00			
611	SHS Grade C450PLUS	350.0	350.0	8.0		Painted			12	1	84.20			
612	SHS Grade C450PLUS	350.0	350.0	10.0		Painted			12	1	104.00			
613	SHS Grade C450PLUS	350.0	350.0	12.5		Painted			12	1	128.00			
614	SHS Grade C450PLUS	350.0	350.0	16.0		Painted			12	1	161.00			
615	SHS Grade C450PLUS	400.0	400.0	10.0		Painted			12	1	120.00			
616	SHS Grade C450PLUS	400.0	400.0	12.5		Painted			12	1	148.00			
617	SHS Grade C450PLUS	400.0	400.0	16.0		Painted			12	1	186.00			
618	SHS Grade C450PLUS	150.0	150.0	5.0		Clear			8	9	22.10			
619	SHS Grade C450PLUS	150.0	150.0	6.0		Clear			8	6	26.20			
620	SHS Grade C450PLUS	150.0	150.0	8.0		Clear			12	4	33.90			
621	SHS Grade C450PLUS	150.0	150.0	9.0		Clear			8	6	37.70			
622	SHS Grade C450PLUS	150.0	150.0	10.0		Clear			12	2	41.30			
623	SHS Grade C450PLUS	200.0	200.0	5.0		Clear			8	6	26.90			
624	SHS Grade C450PLUS	200.0	200.0	6.0		Clear			8	4	35.60			
625	SHS Grade C450PLUS	200.0	200.0	8.0		Clear			8	4	46.50	B	C	UP
626	SHS Grade C450PLUS	200.0	200.0	9.0		Clear			8	4	51.60	A	A	
627	SHS Grade C450PLUS	200.0	200.0	10.0		Clear			12	2	57.00			
628	SHS Grade C450PLUS	200.0	200.0	12.5		Clear			12	2	69.40			
629	SHS Grade C450PLUS	200.0	200.0	16.0		Clear			12	1	85.50			
630	SHS Grade C450PLUS	250.0	250.0	6.0		Clear			12	2	45.00	A	A	
631	SHS Grade C450PLUS	250.0	250.0	8.0		Clear			12	2	59.10	C	C	
632	SHS Grade C450PLUS	250.0	250.0	9.0		Clear			8	2	65.90	A	A	
633	SHS Grade C450PLUS	250.0	250.0	10.0		Clear			12	2	72.70			
634	SHS Grade C450PLUS	250.0	250.0	12.5		Clear			12	1	89.00			
635	SHS Grade C450PLUS	250.0	250.0	16.0		Clear			12	1	111.00			
636	SHS Grade C450PLUS	300.0	300.0	8.0		Clear			12	1	71.60			
637	SHS Grade C450PLUS	300.0	300.0	10.0		Clear			12	1	88.40			
638	SHS Grade C450PLUS	300.0	300.0	12.5		Clear			12	1	109.00			
639	SHS Grade C450PLUS	300.0	300.0	16.0		Clear			12	1	136.00			
640	SHS Grade C450PLUS	350.0	350.0	8.0		Clear			12	1	84.20			
641	SHS Grade C450PLUS	350.0	350.0	10.0		Clear			12	1	104.00			
642	SHS Grade C450PLUS	350.0	350.0	12.5		Clear			12	1	128.00			
643	SHS Grade C450PLUS	350.0	350.0	16.0		Clear			12	1	161.00			
644	SHS Grade C450PLUS	400.0	400.0	10.0		Clear			12	1	120.00			
645	SHS Grade C450PLUS	400.0	400.0	12.5		Clear			12	1	148.00			
646	SHS Grade C450PLUS	400.0	400.0	16.0		Clear			12	1	186.00			
647	SHS Grade C450PLUS	150.0	150.0	5.0		Oiled			8	9	22.10			

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Line	Description	d/oid	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
648	SHS Grade C450P/LUS	150.0	150.0	6.0		Oiled			8	6	26.20			
649	SHS Grade C450P/LUS	150.0	150.0	8.0		Oiled			12	4	33.90	B		DOWN
650	SHS Grade C450P/LUS	150.0	150.0	9.0		Oiled			8	6	37.70	A		DOWN
651	SHS Grade C450P/LUS	150.0	150.0	10.0		Oiled			12	2	41.30	A		DOWN
652	SHS Grade C450P/LUS	200.0	200.0	5.0		Oiled			8	6	29.90			
653	SHS Grade C450P/LUS	200.0	200.0	6.0		Oiled			8	4	35.60			
654	SHS Grade C450P/LUS	200.0	200.0	8.0		Oiled			8	4	46.50			
655	SHS Grade C450P/LUS	200.0	200.0	9.0		Oiled			8	4	51.80			
656	SHS Grade C450P/LUS	200.0	200.0	10.0		Oiled			12	2	57.00	A	B	UP
658	SHS Grade C450P/LUS	200.0	200.0	16.0		Oiled			12	2	69.40	A	B	UP
659	SHS Grade C450P/LUS	250.0	250.0	6.0		Oiled			12	2	45.00	A	B	UP
660	SHS Grade C450P/LUS	250.0	250.0	8.0		Oiled			12	2	59.10			
661	SHS Grade C450P/LUS	250.0	250.0	9.0		Oiled			12	2	65.90			
662	SHS Grade C450P/LUS	250.0	250.0	10.0		Oiled			12	2	72.70	B	A	DOWN
663	SHS Grade C450P/LUS	250.0	250.0	12.5		Oiled			12	1	89.00	A	A	
664	SHS Grade C450P/LUS	250.0	250.0	16.0		Oiled			12	1	111.00	B	B	
665	SHS Grade C450P/LUS	300.0	300.0	8.0		Oiled			12	1	71.60	A	A	
666	SHS Grade C450P/LUS	300.0	300.0	10.0		Oiled			12	1	88.40	A	A	
667	SHS Grade C450P/LUS	300.0	300.0	12.5		Oiled			12	1	109.00	A	A	
668	SHS Grade C450P/LUS	300.0	300.0	16.0		Oiled			12	1	136.00	A	A	
669	SHS Grade C450P/LUS	350.0	350.0	8.0		Oiled			12	1	84.20	B	B	
670	SHS Grade C450P/LUS	350.0	350.0	10.0		Oiled			12	1	104.00	A	A	
671	SHS Grade C450P/LUS	350.0	350.0	12.5		Oiled			12	1	128.00	A	A	
672	SHS Grade C450P/LUS	350.0	350.0	16.0		Oiled			12	1	161.00	A	B	UP
673	SHS Grade C450P/LUS	400.0	400.0	10.0		Oiled			12	1	120.00	A	A	
674	SHS Grade C450P/LUS	400.0	400.0	12.5		Oiled			12	1	148.00	A	A	
675	SHS Grade C450P/LUS	400.0	400.0	16.0		Oiled			12	1	186.00	A	A	
676	RHS Grade C350/L	50.0	30.0	1.6		Painted			8	96	1.63	C	C	
677	RHS Grade C350/L	50.0	30.0	2.0		Painted			8	96	1.99	C	C	
678	RHS Grade C350/L	50.0	20.0	2.5		Painted			8	72	2.42	A	C	UP
679	RHS Grade C350/L	50.0	20.0	3.0		Painted			8	72	2.93	A	C	UP
680	RHS Grade C350/L	50.0	25.0	1.6		Painted			8	96	1.75	A	A	
681	RHS Grade C350/L	50.0	25.0	2.0		Painted			8	96	2.15	A	A	
682	RHS Grade C350/L	50.0	25.0	2.5		Painted			8	72	2.62	A	A	
683	RHS Grade C350/L	50.0	25.0	3.0		Painted			8	60	3.07	A	A	
684	RHS Grade C350/L	65.0	35.0	2.0		Painted			8	54	2.93	A	A	
685	RHS Grade C350/L	65.0	35.0	2.5		Painted			8	54	3.60	A	A	
686	RHS Grade C350/L	65.0	35.0	3.0		Painted			8	45	4.25	A	A	
687	RHS Grade C350/L	65.0	35.0	4.0		Painted			8	35	5.35	A	B	UP
688	RHS Grade C350/L	75.0	25.0	1.6		Painted			8	65	2.38	B	B	
689	RHS Grade C350/L	75.0	25.0	2.0		Painted			8	65	2.93	C	B	DOWN
690	RHS Grade C350/L	75.0	25.0	2.5		Painted			8	48	3.60	A	B	UP
691	RHS Grade C350/L	50.0	20.0	1.6		SupaGal			8	96	1.63			
692	RHS Grade C350/L	50.0	20.0	2.0		SupaGal			8	96	1.99			
693	RHS Grade C350/L	50.0	20.0	2.5		SupaGal			8	72	2.42			
694	RHS Grade C350/L	50.0	20.0	3.0		SupaGal			8	72	2.93			
695	RHS Grade C350/L	50.0	25.0	1.6		SupaGal			8	96	1.75	A	A	
696	RHS Grade C350/L	50.0	25.0	2.0		SupaGal			8	96	2.15	A	A	
697	RHS Grade C350/L	50.0	25.0	2.5		SupaGal			8	72	2.62	A	A	

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698	RHS Grade C350LO	50.0	25.0	3.0		SupaGal			B	60	3.07	A	A	
699	RHS Grade C350LO	65.0	35.0	2.0		SupaGal			B	54	2.93	A	A	
700	RHS Grade C350LO	65.0	35.0	2.5		SupaGal			B	54	3.60	A	A	
701	RHS Grade C350LO	65.0	35.0	3.0		SupaGal			B	45	4.26	A	A	
702	RHS Grade C350LO	65.0	35.0	4.0		SupaGal			B	35	5.38	C	A	DOWN
703	RHS Grade C350LO	75.0	25.0	1.6		SupaGal			B	65	2.93	C	B	DOWN
704	RHS Grade C350LO	75.0	35.0	2.0		SupaGal			B	65	2.93	C	B	DOWN
705	RHS Grade C350LO	75.0	25.0	2.5		SupaGal			B	48	3.60	C	B	DOWN
706	RHS Grade C450PLUS	50.0	20.0	1.6		DuraGal			B	96	1.99	C	C	
707	RHS Grade C450PLUS	50.0	20.0	2.0		DuraGal			B	72	2.42	C	C	
708	RHS Grade C450PLUS	50.0	20.0	2.5		DuraGal			B	72	2.83	C	C	
709	RHS Grade C450PLUS	50.0	20.0	3.0		DuraGal			B	72	2.83	C	C	
710	RHS Grade C450PLUS	50.0	25.0	1.6		DuraGal			B	96	1.75	A	A	
711	RHS Grade C450PLUS	50.0	25.0	2.0		DuraGal			B	96	2.15	A	A	
712	RHS Grade C450PLUS	50.0	25.0	2.5		DuraGal			B	72	2.62	A	A	
713	RHS Grade C450PLUS	50.0	25.0	3.0		DuraGal			B	60	3.07	A	A	
714	RHS Grade C450PLUS	65.0	35.0	2.0		DuraGal			B	54	2.93	A	A	
715	RHS Grade C450PLUS	65.0	35.0	2.5		DuraGal			B	54	3.60	A	B	UP
716	RHS Grade C450PLUS	65.0	35.0	3.0		DuraGal			B	45	4.26	A	A	
717	RHS Grade C450PLUS	65.0	35.0	4.0		DuraGal			B	35	5.38	A	A	
718	RHS Grade C450PLUS	75.0	25.0	1.6		DuraGal			B	65	2.93	A	B	UP
719	RHS Grade C450PLUS	75.0	25.0	2.0		DuraGal			B	65	2.93	C	B	DOWN
720	RHS Grade C450PLUS	75.0	25.0	2.5		DuraGal			B	48	3.60	A	B	UP
721	RHS Grade C450PLUS	75.0	50.0	1.6		Painted			B	54	3.01	B	B	DOWN
722	RHS Grade C450PLUS	75.0	50.0	2.0		Painted			B	42	3.72	A	B	UP
723	RHS Grade C450PLUS	75.0	50.0	2.5		Painted			B	42	4.58	A	B	DOWN
724	RHS Grade C450PLUS	75.0	50.0	3.0		Painted			B	35	5.42	A	A	
725	RHS Grade C450PLUS	75.0	50.0	4.0		Painted			B	28	6.92	A	A	
726	RHS Grade C450PLUS	75.0	50.0	5.0		Painted			B	24	8.35	A	A	
727	RHS Grade C450PLUS	75.0	50.0	6.0		Painted			B	20	9.67	A	B	UP
728	RHS Grade C450PLUS	76.0	38.0	2.5		Painted			B	20	4.15	C	B	DOWN
729	RHS Grade C450PLUS	76.0	38.0	3.0		Painted			B	30	4.96	C	B	DOWN
730	RHS Grade C450PLUS	76.0	38.0	4.0		Painted			B	16	6.23	C	B	DOWN
731	RHS Grade C450PLUS	100.0	50.0	1.6		Painted			B	32	3.64	B	B	
732	RHS Grade C450PLUS	100.0	50.0	2.0		Painted			B	32	4.50	A	A	
733	RHS Grade C450PLUS	100.0	50.0	2.5		Painted			B	32	5.36	A	A	
734	RHS Grade C450PLUS	100.0	50.0	3.0		Painted			B	32	6.60	A	A	
735	RHS Grade C450PLUS	100.0	50.0	3.5		Painted			B	24	7.53	A	B	UP
736	RHS Grade C450PLUS	100.0	50.0	4.0		Painted			B	24	8.49	A	A	
737	RHS Grade C450PLUS	100.0	50.0	5.0		Painted			B	18	10.30	A	A	
738	RHS Grade C450PLUS	100.0	50.0	6.0		Painted			B	12	12.00	A	A	
739	RHS Grade C450PLUS	102.0	76.0	3.5		Painted			B	9	9.06	A	B	UP
740	RHS Grade C450PLUS	102.0	76.0	5.0		Painted			B	6	12.50	A	A	
741	RHS Grade C450PLUS	102.0	76.0	6.0		Painted			B	6	14.70	A	A	
742	RHS Grade C450PLUS	125.0	75.0	2.0		Painted			B	24	6.07	C	C	
743	RHS Grade C450PLUS	125.0	75.0	2.5		Painted			B	24	7.53	C	C	
744	RHS Grade C450PLUS	125.0	75.0	3.0		Painted			B	20	8.96	A	A	
745	RHS Grade C450PLUS	125.0	75.0	4.0		Painted			B	15	11.60	A	A	
746	RHS Grade C450PLUS	125.0	75.0	5.0		Painted			B	15	14.20	A	A	
747	RHS Grade C450PLUS	125.0	75.0	6.0		Painted			B	12	16.70	A	A	

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Line	Description	d/d	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change	
748	RHS Grade C450PLUS	127.0	51.0	3.5		Painted	8		8	12	9.07	C	B	DOWN	
749	RHS Grade C450PLUS	127.0	51.0	5.0		Painted	8		8	8	12.50	A	B	UP	
750	RHS Grade C450PLUS	127.0	51.0	6.0		Painted	8		8	8	14.70	C	A	DOWN	
751	RHS Grade C450PLUS	150.0	50.0	2.0		Painted	8		8	21	6.07	B	A		
752	RHS Grade C450PLUS	150.0	50.0	2.5		Painted	8		8	24	7.53	C	C		
753	RHS Grade C450PLUS	150.0	50.0	3.0		Painted	8		8	21	8.98	A	A		
754	RHS Grade C450PLUS	150.0	50.0	4.0		Painted	8		8	15	11.60	A	A		
755	RHS Grade C450PLUS	150.0	50.0	5.0		Painted	8		8	15	14.20	A	A		
756	RHS Grade C450PLUS	150.0	50.0	6.0		Painted	8		8	15	16.70	C	C		
757	RHS Grade C450PLUS	150.0	100.0	4.0		Painted	8		8	12	14.80	A	A		
758	RHS Grade C450PLUS	150.0	100.0	5.0		Painted	8		8	12	18.20	A	A		
759	RHS Grade C450PLUS	150.0	100.0	6.0		Painted	8		9	21.40	A	A	A		
760	RHS Grade C450PLUS	150.0	100.0	8.0		Painted	4		12	4	27.70		A	A	
761	RHS Grade C450PLUS	150.0	100.0	9.0		Painted	8		8	6	30.60		A	A	
762	RHS Grade C450PLUS	152.0	76.0	5.0		Painted	8		8	6	16.50	A	A		
763	RHS Grade C450PLUS	152.0	76.0	6.0		Clear	8		8	6	19.40	A	A		
764	RHS Grade C450PLUS	75.0	50.0	1.6		Clear	8		8	54	3.01				
765	RHS Grade C450PLUS	75.0	50.0	2.0		Clear	8		8	42	3.72				
766	RHS Grade C450PLUS	75.0	50.0	2.5		Clear	8		8	35	5.42				
767	RHS Grade C450PLUS	75.0	50.0	3.0		Clear	8		8	28	6.92				
768	RHS Grade C450PLUS	75.0	50.0	4.0		Clear	8		8	24	8.35				
769	RHS Grade C450PLUS	75.0	50.0	5.0		Clear	8		8	20	9.67				
770	RHS Grade C450PLUS	75.0	50.0	6.0		Clear	8		8	20	4.15				
771	RHS Grade C450PLUS	76.0	38.0	2.5		Clear	8		8	20	4.90				
772	RHS Grade C450PLUS	76.0	38.0	3.0		Clear	8		8	20	4.90				
773	RHS Grade C450PLUS	76.0	38.0	4.0		Clear	8		8	16	6.23				
774	RHS Grade C450PLUS	100.0	50.0	1.6		Clear	8		8	32	3.64				
775	RHS Grade C450PLUS	100.0	50.0	2.0		Clear	8		8	32	4.50				
776	RHS Grade C450PLUS	100.0	50.0	2.5		Clear	8		8	32	5.56				
777	RHS Grade C450PLUS	100.0	50.0	3.0		Clear	8		8	32	6.60				
778	RHS Grade C450PLUS	100.0	50.0	3.5		Clear	8		8	24	7.53				
779	RHS Grade C450PLUS	100.0	50.0	4.0		Clear	8		8	24	8.49				
780	RHS Grade C450PLUS	100.0	50.0	5.0		Clear	8		8	18	10.30				
781	RHS Grade C450PLUS	100.0	50.0	6.0		Clear	8		8	15	12.00				
782	RHS Grade C450PLUS	102.0	76.0	3.5		Clear	8		8	12	9.06				
783	RHS Grade C450PLUS	102.0	76.0	5.0		Clear	8		8	9	12.50				
784	RHS Grade C450PLUS	125.0	75.0	6.0		Clear	8		8	6	14.70				
785	RHS Grade C450PLUS	125.0	75.0	2.0		Clear	8		8	24	6.07				
786	RHS Grade C450PLUS	125.0	75.0	2.5		Clear	8		8	24	7.53				
787	RHS Grade C450PLUS	125.0	75.0	3.0		Clear	8		8	20	8.98				
788	RHS Grade C450PLUS	125.0	75.0	4.0		Clear	8		8	15	11.60				
789	RHS Grade C450PLUS	125.0	75.0	5.0		Clear	8		8	15	14.20				
790	RHS Grade C450PLUS	125.0	75.0	6.0		Clear	8		8	12	16.70				
791	RHS Grade C450PLUS	127.0	51.0	3.5		Clear	8		8	12	9.07				
792	RHS Grade C450PLUS	127.0	51.0	5.0		Clear	8		8	8	12.50				
793	RHS Grade C450PLUS	127.0	51.0	6.0		Clear	8		8	8	14.70				
794	RHS Grade C450PLUS	150.0	50.0	2.0		Clear	8		8	21	6.07				
795	RHS Grade C450PLUS	150.0	50.0	2.5		Clear	8		8	24	7.53				
796	RHS Grade C450PLUS	150.0	50.0	3.0		Clear	8		8	21	8.98				
797	RHS Grade C450PLUS	150.0	50.0	4.0		Clear	8		8	15	11.60				

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Line	Description	doid	b	t	DN	Finish	Ends	Thickness Range	Length	Peck	kg/m	1/02/2011	27/11/2009	Change
798	RHS Grade C450PLUS	150.0	50.0	5.0		Clear			8	15	14.20			
799	RHS Grade C450PLUS	150.0	50.0	6.0		Clear			8	15	16.70			
800	RHS Grade C450PLUS	150.0	100.0	4.0		Clear			8	12	14.80			
801	RHS Grade C450PLUS	150.0	100.0	5.0		Clear			8	12	18.20			
802	RHS Grade C450PLUS	150.0	100.0	6.0		Clear			8	9	21.40			
803	RHS Grade C450PLUS	150.0	100.0	8.0		Clear			12	4	27.70			
804	RHS Grade C450PLUS	150.0	100.0	9.0		Clear			8	6	30.60			
805	RHS Grade C450PLUS	152.0	76.0	5.0		Clear			8	6	16.50			
806	RHS Grade C450PLUS	152.0	76.0	6.0		Clear			8	6	19.40			
807	RHS Grade C450PLUS	75.0	50.0	1.6		Oiled			8	54	3.01			
808	RHS Grade C450PLUS	75.0	50.0	2.0		Oiled			8	42	3.72			
809	RHS Grade C450PLUS	75.0	50.0	2.5		Oiled			8	43	4.58			
810	RHS Grade C450PLUS	75.0	50.0	3.0		Oiled			8	35	5.43			
811	RHS Grade C450PLUS	75.0	50.0	4.0		Oiled			8	28	6.82			
812	RHS Grade C450PLUS	75.0	50.0	5.0		Oiled			8	24	8.35			
813	RHS Grade C450PLUS	75.0	50.0	6.0		Oiled			8	20	9.87			
814	RHS Grade C450PLUS	76.0	38.0	2.5		Oiled			8	20	4.15			
815	RHS Grade C450PLUS	76.0	38.0	3.0		Oiled			8	20	4.90			
816	RHS Grade C450PLUS	76.0	38.0	4.0		Oiled			8	16	6.23			
817	RHS Grade C450PLUS	100.0	50.0	1.6		Oiled			8	32	3.64			
818	RHS Grade C450PLUS	100.0	50.0	2.0		Oiled			8	32	4.50			
819	RHS Grade C450PLUS	100.0	50.0	2.5		Oiled			8	32	5.56			
820	RHS Grade C450PLUS	100.0	50.0	3.0		Oiled			8	32	6.60			
821	RHS Grade C450PLUS	100.0	50.0	3.5		Oiled			8	24	7.53			
822	RHS Grade C450PLUS	100.0	50.0	4.0		Oiled			8	24	8.49			
823	RHS Grade C450PLUS	100.0	50.0	5.0		Oiled			8	18	10.30			
824	RHS Grade C450PLUS	100.0	50.0	6.0		Oiled			8	15	12.00			
825	RHS Grade C450PLUS	102.0	76.0	3.5		Oiled			8	12	9.06			
826	RHS Grade C450PLUS	102.0	76.0	5.0		Oiled			8	6	12.50			
827	RHS Grade C450PLUS	102.0	76.0	6.0		Oiled			8	6	14.70			
828	RHS Grade C450PLUS	125.0	75.0	2.0		Oiled			8	24	6.07			
829	RHS Grade C450PLUS	125.0	75.0	2.5		Oiled			8	24	7.53			
830	RHS Grade C450PLUS	125.0	75.0	3.0		Oiled			8	20	8.96			
831	RHS Grade C450PLUS	125.0	75.0	4.0		Oiled			8	15	11.60			
832	RHS Grade C450PLUS	125.0	75.0	5.0		Oiled			8	15	14.20			
833	RHS Grade C450PLUS	125.0	75.0	6.0		Oiled			8	12	16.70			
834	RHS Grade C450PLUS	127.0	51.0	3.5		Oiled			8	12	9.07			
835	RHS Grade C450PLUS	127.0	51.0	5.0		Oiled			8	8	12.50			
836	RHS Grade C450PLUS	127.0	51.0	6.0		Oiled			8	8	14.70			
837	RHS Grade C450PLUS	150.0	50.0	2.0		Oiled			8	21	6.07			
838	RHS Grade C450PLUS	150.0	50.0	2.5		Oiled			8	21	7.53			
839	RHS Grade C450PLUS	150.0	50.0	3.0		Oiled			8	21	8.96			
840	RHS Grade C450PLUS	150.0	50.0	4.0		Oiled			8	15	11.60			
841	RHS Grade C450PLUS	150.0	50.0	5.0		Oiled			8	15	14.20			
842	RHS Grade C450PLUS	150.0	50.0	6.0		Oiled			8	12	16.70			
843	RHS Grade C450PLUS	150.0	100.0	4.0		Oiled			8	12	14.80			
844	RHS Grade C450PLUS	150.0	100.0	5.0		Oiled			8	12	16.20			
845	RHS Grade C450PLUS	150.0	100.0	6.0		Oiled			8	9	21.40			
846	RHS Grade C450PLUS	150.0	100.0	8.0		Oiled			12	4	27.70	B		
847	RHS Grade C450PLUS	150.0	100.0	9.0		Oiled			8	6	30.60	A		

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Line	Description	doid	b	i	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
848	RHS Grade C450PPLUS	152.0	76.0	5.0		Oiled			8	6	16.50			UP
849	RHS Grade C450PPLUS	152.0	76.0	6.0		Oiled			8	6	19.40			
850	RHS Grade C450PPLUS	75.0	50.0	1.6		SupaGal			8	54	3.01	C	B	DOWN
851	RHS Grade C450PPLUS	75.0	50.0	2.0		SupaGal			8	42	3.72	A	A	
852	RHS Grade C450PPLUS	75.0	50.0	2.5		SupaGal			8	42	4.58	A	A	
853	RHS Grade C450PPLUS	75.0	50.0	3.0		SupaGal			8	35	5.42	A	A	
854	RHS Grade C450PPLUS	75.0	50.0	4.0		SupaGal			8	28	6.92	A	A	
855	RHS Grade C450PPLUS	75.0	50.0	5.0		SupaGal			8	24	8.35	B	B	
856	RHS Grade C450PPLUS	75.0	50.0	6.0		SupaGal			8	20	9.67			
857	RHS Grade C450PPLUS	76.0	38.0	2.5		SupaGal			8	20	4.15			
858	RHS Grade C450PPLUS	76.0	38.0	3.0		SupaGal			8	20	4.90	C	B	DOWN
859	RHS Grade C450PPLUS	100.0	50.0	4.0		SupaGal			8	16	6.23			
860	RHS Grade C450PPLUS	100.0	50.0	1.6		SupaGal			8	32	3.64	C		DOWN
861	RHS Grade C450PPLUS	100.0	50.0	2.0		SupaGal			8	32	4.50	A	A	
862	RHS Grade C450PPLUS	100.0	50.0	2.5		SupaGal			8	32	5.56	A	A	
863	RHS Grade C450PPLUS	100.0	50.0	3.0		SupaGal			8	32	6.60	A	A	
864	RHS Grade C450PPLUS	100.0	50.0	3.5		SupaGal			8	24	7.53	C	B	DOWN
865	RHS Grade C450PPLUS	100.0	50.0	4.0		SupaGal			8	24	8.49	A	A	
866	RHS Grade C450PPLUS	100.0	50.0	5.0		SupaGal			8	18	10.30	A	A	
867	RHS Grade C450PPLUS	100.0	50.0	6.0		SupaGal			8	15	12.00			
868	RHS Grade C450PPLUS	102.0	76.0	3.5		SupaGal			8	12	9.06			
869	RHS Grade C450PPLUS	102.0	76.0	5.0		SupaGal			8	9	12.50			
870	RHS Grade C450PPLUS	102.0	76.0	6.0		SupaGal			8	6	14.70			
871	RHS Grade C450PPLUS	125.0	75.0	2.0		SupaGal			8	24	5.07			
872	RHS Grade C450PPLUS	125.0	75.0	2.5		SupaGal			8	24	7.53	C	C	
873	RHS Grade C450PPLUS	125.0	75.0	3.0		SupaGal			8	20	8.96	A	A	
874	RHS Grade C450PPLUS	125.0	75.0	4.0		SupaGal			8	15	11.60	A	A	
875	RHS Grade C450PPLUS	125.0	75.0	5.0		SupaGal			8	15	14.20	A	B	UP
876	RHS Grade C450PPLUS	125.0	75.0	6.0		SupaGal			8	12	16.70			
877	RHS Grade C450PPLUS	127.0	51.0	3.5		SupaGal			8	12	9.07			
878	RHS Grade C450PPLUS	127.0	51.0	5.0		SupaGal			8	8	12.50			
879	RHS Grade C450PPLUS	127.0	51.0	6.0		SupaGal			8	8	14.70			
880	RHS Grade C450PPLUS	150.0	50.0	2.0		SupaGal			8	21	6.07	C		DOWN
881	RHS Grade C450PPLUS	150.0	50.0	2.5		SupaGal			8	24	7.53	C	C	
882	RHS Grade C450PPLUS	150.0	50.0	3.0		SupaGal			8	21	8.96	A	A	
883	RHS Grade C450PPLUS	150.0	50.0	4.0		SupaGal			8	15	11.60	A	A	
884	RHS Grade C450PPLUS	150.0	50.0	5.0		SupaGal			8	15	14.20	A	A	
885	RHS Grade C450PPLUS	150.0	50.0	6.0		SupaGal			8	15	16.70			
886	RHS Grade C450PPLUS	150.0	100.0	4.0		SupaGal			8	12	14.80			
887	RHS Grade C450PPLUS	150.0	100.0	5.0		SupaGal			8	12	16.20			
888	RHS Grade C450PPLUS	150.0	100.0	6.0		SupaGal			8	9	21.40			
889	RHS Grade C450PPLUS	150.0	100.0	8.0		SupaGal			12	4	27.70			
890	RHS Grade C450PPLUS	150.0	100.0	9.0		SupaGal			8	6	30.60			
891	RHS Grade C450PPLUS	152.0	76.0	5.0		SupaGal			8	6	16.50			
892	RHS Grade C450PPLUS	152.0	76.0	6.0		SupaGal			8	6	19.40			
893	RHS Grade C450PPLUS	75.0	50.0	1.6		DuraGal			8	54	3.01	C	B	DOWN
894	RHS Grade C450PPLUS	75.0	50.0	2.0		DuraGal			8	42	3.72	A	A	
895	RHS Grade C450PPLUS	75.0	50.0	2.5		DuraGal			8	42	4.58	A	A	
896	RHS Grade C450PPLUS	75.0	50.0	3.0		DuraGal			8	35	5.42	A	A	

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Line	Description	doid	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	1/02/2011	27/11/2009	Change
897	RHS Grade C450PLUS	75.0	50.0	4.0		DuraGal			8	28	6.92	A		
898	RHS Grade C450PLUS	75.0	50.0	5.0		DuraGal			8	24	8.35	B		
899	RHS Grade C450PLUS	75.0	50.0	6.0		DuraGal			8	20	9.67			
900	RHS Grade C450PLUS	76.0	38.0	2.5		DuraGal			8	20	4.15			
901	RHS Grade C450PLUS	76.0	38.0	3.0		DuraGal			8	20	4.90			
902	RHS Grade C450PLUS	76.0	38.0	4.0		DuraGal			8	16	6.23			
903	RHS Grade C480PLUS	100.0	50.0	1.6		DuraGal			8	32	3.64	A		
904	RHS Grade C480PLUS	100.0	50.0	2.0		DuraGal			8	32	4.50	A		
905	RHS Grade C480PLUS	100.0	50.0	2.5		DuraGal			8	32	5.56	A		
906	RHS Grade C480PLUS	100.0	50.0	3.0		DuraGal			8	32	6.60	A		
907	RHS Grade C480PLUS	100.0	50.0	3.5		DuraGal			8	24	7.53	B		
908	RHS Grade C480PLUS	100.0	50.0	4.0		DuraGal			8	24	8.49	A		
909	RHS Grade C480PLUS	100.0	50.0	5.0		DuraGal			8	18	10.30	A		
910	RHS Grade C480PLUS	100.0	50.0	6.0		DuraGal			8	15	12.00	B		
911	RHS Grade C450PLUS	102.0	76.0	3.5		DuraGal			8	12	9.06			
912	RHS Grade C450PLUS	102.0	76.0	5.0		DuraGal			8	9	12.50			
913	RHS Grade C450PLUS	103.0	76.0	6.0		DuraGal			8	6	14.70			
914	RHS Grade C480PLUS	125.0	75.0	2.0		DuraGal			8	24	6.07	C		DOWN
915	RHS Grade C480PLUS	125.0	75.0	2.5		DuraGal			8	24	7.53	C		
916	RHS Grade C480PLUS	125.0	75.0	3.0		DuraGal			8	20	8.96	A		
917	RHS Grade C480PLUS	125.0	75.0	4.0		DuraGal			8	15	11.60	A		
918	RHS Grade C480PLUS	125.0	75.0	5.0		DuraGal			8	15	14.20	A		
919	RHS Grade C480PLUS	125.0	75.0	6.0		DuraGal			8	12	16.70	B		
920	RHS Grade C480PLUS	127.0	51.0	3.5		DuraGal			8	12	9.07			
921	RHS Grade C450PLUS	127.0	51.0	5.0		DuraGal			8	8	12.50			
922	RHS Grade C450PLUS	127.0	51.0	6.0		DuraGal			8	8	14.70			
923	RHS Grade C450PLUS	150.0	50.0	2.0		DuraGal			8	21	6.07	A		
924	RHS Grade C450PLUS	150.0	50.0	2.5		DuraGal			8	24	7.53	A		
925	RHS Grade C450PLUS	150.0	50.0	3.0		DuraGal			8	21	8.96	A		
926	RHS Grade C480PLUS	150.0	50.0	4.0		DuraGal			8	15	11.60	A		
927	RHS Grade C480PLUS	150.0	50.0	5.0		DuraGal			8	15	14.20	A		
928	RHS Grade C480PLUS	150.0	50.0	6.0		DuraGal			8	15	16.70	C		
929	RHS Grade C450PLUS	150.0	100.0	4.0		DuraGal			8	12	14.80			
930	RHS Grade C450PLUS	150.0	100.0	5.0		DuraGal			8	12	18.20			
931	RHS Grade C450PLUS	150.0	100.0	6.0		DuraGal			8	9	21.40			
932	RHS Grade C450PLUS	150.0	100.0	8.0		DuraGal			12	4	27.70			
933	RHS Grade C450PLUS	150.0	100.0	9.0		DuraGal			8	6	30.60			
934	RHS Grade C450PLUS	152.0	76.0	5.0		DuraGal			8	6	16.50			
935	RHS Grade C450PLUS	152.0	76.0	6.0		DuraGal			8	6	19.40			
936	RHS Grade C480PLUS	200.0	100.0	4.0		Painted			8	8	17.90	A		
937	RHS Grade C480PLUS	200.0	100.0	5.0		Painted			8	8	22.10	A		
938	RHS Grade C480PLUS	200.0	100.0	6.0		Painted			8	8	26.20	A		
939	RHS Grade C450PLUS	200.0	100.0	8.0		Painted			12	4	33.90			
940	RHS Grade C450PLUS	200.0	100.0	9.0		Painted			12	4	37.70			
941	RHS Grade C450PLUS	250.0	150.0	5.0		Painted			8	6	29.90	A		
942	RHS Grade C450PLUS	250.0	150.0	6.0		Painted			8	4	35.60	A		
943	RHS Grade C450PLUS	250.0	150.0	8.0		Painted			8	4	46.50			
944	RHS Grade C450PLUS	250.0	150.0	9.0		Painted			8	4	51.80			
945	RHS Grade C450PLUS	250.0	150.0	10.0		Painted			12	2	57.00			
946	RHS Grade C450PLUS	250.0	150.0	12.5		Painted			12	2	69.40			

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947	RHS Grade C450PLUS	250.0	150.0	16.0		Painted			12	1	85.50			
948	RHS Grade C450PLUS	300.0	200.0	6.0		Painted			12	2	45.00			
949	RHS Grade C450PLUS	300.0	200.0	8.0		Painted			12	2	59.10			
950	RHS Grade C450PLUS	300.0	200.0	9.0		Painted			12	2	65.90			
951	RHS Grade C450PLUS	300.0	200.0	10.0		Painted			12	2	72.70			
952	RHS Grade C450PLUS	300.0	200.0	12.5		Painted			12	1	89.00			
953	RHS Grade C450PLUS	300.0	200.0	16.0		Painted			12	1	111.00			
954	RHS Grade C450PLUS	350.0	250.0	8.0		Painted			12	2	71.60			
955	RHS Grade C450PLUS	350.0	250.0	10.0		Painted			12	1	88.40			
956	RHS Grade C450PLUS	350.0	250.0	12.5		Painted			12	1	109.00			
957	RHS Grade C450PLUS	350.0	250.0	16.0		Painted			12	1	136.00			
958	RHS Grade C450PLUS	400.0	200.0	8.0		Painted			12	2	71.60			
959	RHS Grade C450PLUS	400.0	200.0	10.0		Painted			12	1	88.40			
960	RHS Grade C450PLUS	400.0	200.0	12.5		Painted			12	1	109.00			
961	RHS Grade C450PLUS	400.0	200.0	16.0		Painted			12	1	136.00			
962	RHS Grade C450PLUS	400.0	300.0	8.0		Painted			12	1	84.20			
963	RHS Grade C450PLUS	400.0	300.0	10.0		Painted			12	1	104.00			
964	RHS Grade C450PLUS	400.0	300.0	12.5		Painted			12	1	128.00			
965	RHS Grade C450PLUS	400.0	300.0	16.0		Painted			12	1	161.00			
966	RHS Grade C450PLUS	200.0	100.0	4.0		Clear			8	8	17.90			
967	RHS Grade C450PLUS	200.0	100.0	5.0		Clear			8	8	22.10			
968	RHS Grade C450PLUS	200.0	100.0	6.0		Clear			8	8	26.20			
969	RHS Grade C450PLUS	200.0	100.0	8.0		Clear			12	4	33.90			
970	RHS Grade C450PLUS	200.0	100.0	9.0		Clear			12	4	37.70			
971	RHS Grade C450PLUS	250.0	150.0	5.0		Clear			8	6	29.90			
972	RHS Grade C450PLUS	250.0	150.0	6.0		Clear			8	4	35.60			
973	RHS Grade C450PLUS	250.0	150.0	8.0		Clear			8	4	46.50	B	A	DOWN
974	RHS Grade C450PLUS	250.0	150.0	9.0		Clear			8	4	51.80	A	B	UP
975	RHS Grade C450PLUS	250.0	150.0	10.0		Clear			12	2	57.00			
976	RHS Grade C450PLUS	250.0	150.0	12.5		Clear			12	2	69.40			
977	RHS Grade C450PLUS	250.0	150.0	16.0		Clear			12	1	85.50			
978	RHS Grade C450PLUS	300.0	200.0	6.0		Clear			12	2	45.00			
979	RHS Grade C450PLUS	300.0	200.0	8.0		Clear			12	2	59.10			
980	RHS Grade C450PLUS	300.0	200.0	9.0		Clear			12	2	65.90			
981	RHS Grade C450PLUS	300.0	200.0	10.0		Clear			12	2	72.70			
982	RHS Grade C450PLUS	300.0	200.0	12.5		Clear			12	1	89.00			
983	RHS Grade C450PLUS	300.0	200.0	16.0		Clear			12	1	111.00			
984	RHS Grade C450PLUS	350.0	250.0	8.0		Clear			12	2	71.60			
985	RHS Grade C450PLUS	350.0	250.0	10.0		Clear			12	1	88.40			
986	RHS Grade C450PLUS	350.0	250.0	12.5		Clear			12	1	109.00			
987	RHS Grade C450PLUS	350.0	250.0	16.0		Clear			12	1	136.00			
988	RHS Grade C450PLUS	400.0	200.0	8.0		Clear			12	2	71.60			
989	RHS Grade C450PLUS	400.0	200.0	10.0		Clear			12	1	88.40			
990	RHS Grade C450PLUS	400.0	200.0	12.5		Clear			12	1	109.00			
991	RHS Grade C450PLUS	400.0	200.0	16.0		Clear			12	1	136.00			
992	RHS Grade C450PLUS	400.0	300.0	8.0		Clear			12	1	84.20			
993	RHS Grade C450PLUS	400.0	300.0	10.0		Clear			12	1	104.00			
994	RHS Grade C450PLUS	400.0	300.0	12.5		Clear			12	1	128.00			
995	RHS Grade C450PLUS	400.0	300.0	16.0		Clear			12	1	161.00			
996	RHS Grade C450PLUS	200.0	100.0	4.0		Clear			8	8	17.90			

Analysis of ATM Product Availability Guide
Between 1 February 2011 and 27 November 2009 Version

Line	Description	doid	b	t	DN	Finish	Ends	Thickness Range	Length	Pack	kg/m	27/11/2009	Change
997	RHS Grade C450PLUS	200.0	100.0	5.0		Oiled			8	8	22.10		
998	RHS Grade C450PLUS	200.0	100.0	6.0		Oiled			8	8	26.20		
999	RHS Grade C450PLUS	200.0	100.0	8.0		Oiled			12	4	33.60	B	
1000	RHS Grade C450PLUS	200.0	100.0	9.0		Oiled			12	4	37.70	A	
1001	RHS Grade C450PLUS	250.0	150.0	5.0		Oiled			2	2	22.10		UP
1002	RHS Grade C450PLUS	250.0	150.0	6.0		Oiled			8	6	28.90		
1003	RHS Grade C450PLUS	250.0	150.0	8.0		Oiled			8	4	35.60		
1004	RHS Grade C450PLUS	250.0	150.0	9.0		Oiled			8	4	46.50		
1005	RHS Grade C450PLUS	250.0	150.0	10.0		Oiled			12	2	51.80		
1006	RHS Grade C450PLUS	250.0	150.0	12.5		Oiled			12	2	57.00	B	
1007	RHS Grade C450PLUS	250.0	150.0	16.0		Oiled			12	2	69.40	A	
1008	RHS Grade C450PLUS	300.0	200.0	6.0		Oiled			12	2	85.50	B	
1009	RHS Grade C450PLUS	300.0	200.0	8.0		Oiled			12	2	95.00	A	
1010	RHS Grade C450PLUS	300.0	200.0	8.0		Oiled			12	2	99.10	A	
1011	RHS Grade C450PLUS	300.0	200.0	10.0		Oiled			12	2	103.20	A	
1012	RHS Grade C450PLUS	300.0	200.0	12.5		Oiled			12	1	111.00	A	
1013	RHS Grade C450PLUS	300.0	200.0	16.0		Oiled			12	1	131.00	B	
1014	RHS Grade C450PLUS	350.0	250.0	8.0		Oiled			12	2	71.60	A	
1015	RHS Grade C450PLUS	350.0	250.0	10.0		Oiled			12	1	88.40	A	UP
1016	RHS Grade C450PLUS	350.0	250.0	12.5		Oiled			12	1	109.00	A	
1017	RHS Grade C450PLUS	350.0	250.0	16.0		Oiled			12	1	136.00	B	
1018	RHS Grade C450PLUS	400.0	200.0	8.0		Oiled			12	2	71.60	B	
1019	RHS Grade C450PLUS	400.0	200.0	10.0		Oiled			12	1	88.40	A	
1020	RHS Grade C450PLUS	400.0	200.0	12.5		Oiled			12	1	109.00	A	
1021	RHS Grade C450PLUS	400.0	200.0	16.0		Oiled			12	1	136.00	A	
1022	RHS Grade C450PLUS	400.0	300.0	8.0		Oiled			12	1	84.20	B	
1023	RHS Grade C450PLUS	400.0	300.0	10.0		Oiled			12	1	104.00	B	
1024	RHS Grade C450PLUS	400.0	300.0	12.5		Oiled			12	1	128.00	A	
1025	RHS Grade C450PLUS	400.0	300.0	16.0		Oiled			12	1	161.00	A	
1026	Post Grade C450PLUS	90.0	90.0	2.0		GAL140			8	20	5.45	B	UP
1027	Building Products C450PLUS	75.0	50.0	1.6		GAL140			8	54	3.01	C	UP
1028	Building Products C450PLUS	90.0	90.0	2.5		GAL140			8	20	6.74	B	UP
1029	Building Products C450PLUS	100.0	50.0	1.6		GAL140			8	32	3.64	B	UP
1030	Building Products C450PLUS	100.0	50.0	2.0		GAL140			8	32	4.50	B	UP
1031	Building Products C450PLUS	150.0	50.0	2.0		GAL140			8	21	6.07	B	UP
1032	Building Products C450PLUS	150.0	50.0	3.0		GAL140			8	21	8.96	B	UP
1033	SILO Grade C450PLUS	75.0	64.0	2.3		Painted			12	36	4.43	C	DOWN
1034	SILO Grade C450PLUS	75.0	64.0	2.5		Painted			12	36	4.75	C	DOWN
1035	SILO Grade C450PLUS	75.0	64.0	3.0		Painted			12	36	5.56	C	DOWN
1036	SILO Grade C450PLUS	75.0	64.0	4.0		Painted			12	24	7.21	C	DOWN
1037	SILO Grade C450PLUS	75.0	64.0	2.3		SupaGal			12	36	4.43	C	
1038	SILO Grade C450PLUS	75.0	64.0	2.5		SupaGal			12	36	4.75	C	
1039	SILO Grade C450PLUS	75.0	64.0	3.0		SupaGal			12	36	5.56	C	
1040	SILO Grade C450PLUS	75.0	64.0	4.0		SupaGal			12	24	7.21	C	DOWN
1041	SILO Grade C450PLUS	75.0	64.0	2.3		DuraGal			12	36	4.43	C	DOWN
1042	SILO Grade C450PLUS	75.0	64.0	2.5		DuraGal			12	36	4.75	C	DOWN
1043	SILO Grade C450PLUS	75.0	64.0	3.0		DuraGal			12	36	5.56	A	DOWN
1044	SILO Grade C450PLUS	75.0	64.0	4.0		DuraGal			12	24	7.21	C	DOWN

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GUIDE TO PURCHASING

Pipe & Tube Structural Products and DuraGal[®] Profiles

Issue 3

Effective From: 21 May 2010

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Applicable For: New Zealand

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Introduction

1.0 INTRODUCTION

1.1 Our Commitment to Customers

1.1.1 On-time Delivery

Australian Tube Mills (ATM) is committed to delivering all orders in full on time in accordance with this "Guide to Purchasing". This will be subject to your capacity to receive goods into your store.

1.1.2 Large Range of Readily Available Stock

ATM strives to provide you with the optimal mix of range and availability so you can quickly and easily respond to your customer's pipe, tube and profiles requirements promptly.

1.1.3 Quality Assurance

ATM produces its products either to relevant Australian and New Zealand Standards or ATM's own high quality standards. ATM's aim is to supply a consistent reliable product to you, which delivers benefits to your customers by minimising variation and reducing waste.

ATM has third party accreditation to Quality Management System ISO 9001 and Environmental Management System ISO 14001.

1.1.4 Technical Assistance

ATM is committed to providing customers with a practical and comprehensive technical backup and support service. We have expertise in mechanical, structural, piping, welding and most steel applications. We will respond to all technical enquiries within 24 hours.

For all technical enquiries please call ATM Sales and Service or your ATM New Zealand Sales Manager. Refer to the contact directory in Section 8.

1.1.5 Sales & Service Enquiries

ATM understands customers need to be able to get information quickly and easily, so you can be first to the market with accurate and comprehensive information. We are committed to responding to all Sales and Service enquiries within 2 hours. Refer to the contact directory in Section 8.

1.1.6 Complaint Resolution

ATM is committed to resolving complaints with timely and effective outcomes for customers. We aim to initially respond to all complaints within 24 hours, at which time we will advise the anticipated resolution date for your concern. If you have a complaint with any aspect of our product/service, please contact your ATM New Zealand Sales Manager. Refer to the contact directory in Section 8.

Introduction

1.2 Market Documents

1.2.1 Guide to Purchasing

This Guide details ATM's policy in relation to ordering, specifications and standards, freight, commercial terms and lead times. This Guide applies to first grade structural circular hollow section, structural square and rectangular hollow section and DuraGal® Profiles.

1.2.2 Pipe & Tube Delivery Programme

The Delivery Programme details the closing date of future rollings. Orders for non stocked items or non standard lengths should be placed prior to 5pm on the closing date. The Delivery Programme is published monthly and is emailed directly to customers when updated.

1.2.3 Pricing and Availability Guide

The "Pricing and Availability Guide" details the price (excl. GST), availability and product specification for the core range of products supplied by ATM.

Please call ATM Sales and Service or your ATM New Zealand Sales Manager to receive any or all of these documents.

1.2.4 Further Product Information

Feel free to visit our website www.austubemills.com to view or download our complete range of product information, MSDS information, case studies and corporate information.

1.2.5 Sample Documents

Refer to Appendix A to E for examples of typical transactional documents.

1.3 EzyCommerce® Solutions

ATM offers its customers a full suite of electronic commerce solutions designed to carry out key business transactions efficiently. Working to the Australian Steel Institute guidelines for B2B (The Steel Online Project) our EzyCommerce® solutions utilise secure internet-based technology, built to agreed open standards, that allow you to improve business transaction efficiencies and reduce your cost of conducting business not only with OneSteel but with your other ASI trading partners.

The functions of EzyCommerce® include electronic exchange of information on:

Ordering

- + Purchase Order Placement
- + Purchase Order Acknowledgement
- + Order Status Update

Shipping

- + Advance Shipping Notification (ASN)

Payment and Invoicing

- + Invoicing

Please call ATM Sales and Service or your ATM New Zealand Sales Manager to enquire about establishing this service.



Ordering

2.0 ORDERING

2.1 Order Placement

To place an Order with ATM, the Order must contain the following information:

- Your name and address
- Order Number
- Full details of Order Items (dimension, gauge, finish, grade and standard)
- Quantity of each Order Item
- Ship to address

Where the Ship to Address of an Order is different to the site address of a ATM distributor, the Order will be subject to the terms outlined in Section 2.8 (Direct Deliveries) of this Guide.

Orders can be placed with the ATM Sales & Service via an agreed EDI format and by fax. Refer to Section 8 of this guide for the Sales & Service fax number.

2.2 Order Acceptance

An Order may be accepted or rejected by ATM. Orders may be accepted by ATM issuing an Order Acknowledgement to you via EDI or fax or by delivery of the Order Item to the Ship to Address. Any Order that is accepted by ATM will be subject to OneSteel's Standard Terms and Conditions of Sale, applicable to New Zealand at the time of placement of the Order, without amendment unless otherwise agreed in writing by ATM. Customers will be notified as soon as possible if an order will not be accepted.

2.3 Product Availability

Products are available as either Ex-Stock or Ex-Rolling.

Orders for Ex-Rolling products should be placed no later than 7 working days prior to the rolling week. Orders placed less than a week prior to rolling will be subject to capacity planning.

If you place an Order for an Ex-Rolling product where an MOQ exists, you must take the Product of a Rolling, which can be +/-10% of the quantity specified as the MOQ. At the time of Order placement, ATM will notify you of the estimated Product of a Rolling although please note that the actual quantity rolled may vary.

2.4 Minimum Order Quantity (MOQ)

The MOQ is the minimum quantity of a product that can be ordered.

The MOQ for all ATM stockable products is one (1) pack.

The MOQ applicable for ex rolling items can be obtained by contacting ATM Sales and Service or your Regional Sales Manager.

For rolling timing, please contact Sales & Service for sections identified as requiring an MOQ. Additional time may be required to source HRC with the correct width, gauge and or grade.

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

2.5 Order Amendments and Cancellations

All requests to amend or cancel an Order will be considered, provided that ATM has not purchased non-standard steel or commenced production of the Order. ATM reserves the right to deny any request to amend or cancel an Order. An amendment or cancellation of

Ordering

an Order will be of no effect unless agreed to by ATM in writing. Please note that requests for additional products may require a further Order to be placed with the appropriate lead time.

2.6 Special Order Requests

2.6.1 Early Delivery Request

Requests for early delivery (inside the specified lead time) will be considered on application. Where such a request can be accommodated by ATM, additional charges, including freight, may apply. In some cases of early delivery, an Order Acknowledgement may not be sent.

2.6.2 Late Inclusions

In certain circumstances limited orders may be accepted after the Closing Date for a section and prior to the actual rolling date. However there is no guarantee that the order will be accepted and customers should endeavour to place all orders prior to 5pm on the Closing Date. Enquiries for late inclusions should be made with the ATM Sales & Service Representatives.

2.7 Transport Site Inspection

All customers are requested to participate in a Transport Site Inspection prior to ATM processing their order.

The site inspection enables ATM to document customer delivery details, such as the ship to address, warehouse contacts, hours of operation, general safety requirements, along with information regarding the type of equipment that will be utilised when unloading.

This information will be stored on the OneSteel database and referenced prior to each order to ensure a safe and efficient delivery occurs.

2.8 Direct Deliveries

ATM will consider requests for delivery direct to sites other than the site address of an ATM distributor. Refer Section 4.1 of this guide.

Direct Delivery Prerequisites:

1. Approval from your ATM New Zealand Sales Manager.
2. The completion of the transport site inspection audit by an accredited OneSteel employee which is then subject to sign off by an authorised OneSteel employee. Contact your Regional Sales Manager for further details.
3. The Place for Delivery must have safe and reasonable access for a semi-trailer - unloading on the road is unacceptable.
4. Safe unloading practices must be in place at the direct Ship to Address.
5. The Order is in multiples of full truckloads.
6. The entire Order is to be delivered to a single destination.
7. End user contact and delivery details are provided to ATM prior to despatch.
8. Unloading commences within 20 minutes of the agreed delivery window.
9. Freight extras may be payable depending on the delivery destination (refer to Section 4.2 of this Guide).

Specifications and Standards

3.0 SPECIFICATIONS AND STANDARDS

Products are supplied in accordance with the relevant ATM specification, Australian Standard (AS), New Zealand (NZ) or International Standard (eg. EN) where applicable.

Details of the relevant specification and standard are available in the following locations:

- Price and Availability Guide.
- Cold Formed Structural, Hollow Sections and Profiles Guide.
- Australian Tube Mills web site - www.austubemills.com.

Please contact your ATM New Zealand Sales Manager for any additional enquiries.

Freight

4.0 FREIGHT

OneSteel is a member of the Steel Transport Safety Network and in conjunction with other contributing members, has developed an Australian Steel Industry Logistics Safety - "Code of Practice". This Code of Practice (CoP) provides guidance to the Australian steel industry in relation to controlling, managing, operating and auditing the CoP of heavy vehicle road transport freight movements and complying with the chain of responsibility legislation.

Copies of the OneSteel Code of Practice - Road Transport Safety are available upon request, or can be viewed on www.austubemills.com.

4.1 Free into Store Locations

For standard offer products where you have a Pipe and Tube distributorship agreement with ATM, delivery will be FIS to the nominated destinations. Freight extras will apply as shown in the Pricing and Availability Guides.

4.2 Freight Extras

For non-standard offer products freight extras may apply. For freight extras please call ATM Sales and Service.

ATM reserves the right to vary the freight extras and/or cease providing delivery services to any locations.

4.3 Freight Conditions

The mode of freight will be at the sole discretion of ATM. Any requests for variation on ATM preferred mode of freight will be considered on a case-by-case basis. Where alternate freight methods can be accommodated, additional charges may apply.

For all enquiries regarding freight conditions please call ATM Sales and Service.

4.3.1 Load Configuration

All load configurations will be determined by ATM to ensure safe and effective transport of products. ATM will endeavour to take into account any load configuration requests. ATM cannot guarantee that it will be able to meet any such requests.

4.3.2 Customer Arranged Transport

ATM provides a safe and highly effective transport and logistics solution. We will always strive to satisfy your requirements through our own logistics providers.

ATM considers customer-arranged transport as a non-preferred transport option. Any requests for customer arranged transport must be made in writing to your ATM New Zealand Sales Manager for further consideration.

Commercial Terms

5.0 COMMERCIAL TERMS

5.1 Prices

The Price for each Order Item will be as detailed in the Pricing and Availability Guide or as otherwise notified to you by ATM. If an Order Item is not detailed in the Pricing and Availability Guide, please contact your ATM New Zealand Sales Manager or ATM Sales and Service to obtain a price before placing an Order.

All prices in the Pricing and Availability Guide are quoted in Australian dollars (AUD\$) excluding GST.

5.2 Delivery

ATM will make all reasonable efforts to have Order Items delivered within the lead times specified in this Guide or any later date agreed with you. You should be aware that there are many factors that can affect delivery times (including matters beyond ATM's control) and that ATM cannot guarantee delivery on time and does not accept any liability for late delivery.

Lead times quoted in this Guide are subject to manufacturing capacity and feed and stock availability. The lead time for Orders with special steel requirements will be subject to manufacturing capacity and feed availability.

ATM reserves the right to vary lead-times or provide phased deliveries. This will be notified at the time of Order acceptance, or as soon as possible thereafter.

The delivery date for MOQ sections will be confirmed within 24 hours of Order placement. This allows for the confirmation of procurement logistical lead times.

5.3 Terms of Payment

ATM's payment terms are payment in full by the last day of business of the month following the month of delivery. Unless otherwise agreed in writing with the ATM Market Manager Tubular.

5.4 Test Certificates

5.4.1 Certificates of Compliance

All products manufactured by ATM, unless specifically excluded, are supported by a Certificate of Compliance which is incorporated in our delivery document.

5.4.2 Test Certificates (mechanical properties and chemical analysis)

All products manufactured by ATM, unless specifically excluded in the terms of a discrete or non prime offer, are supported with a Test Certificate where requested.

5.4.3 Charpy Test Certificates for Test Results Exceeding LO

Charpy Test Certificates are only available for Ex-Rolling products subject to order confirmation. A Charpy Test Certificate will not be provided unless requested at time of Order placement and you should contact your Regional Sales Manager for charges applicable.

Charpy Test Certificates will be mailed to the customers invoice address unless the ATM Customer Service Centre is notified otherwise.

Commercial Terms

5.5 Terms and Conditions of Sale

OneSteel's Standard Terms and Conditions of Sale with reference to New Zealand, as applicable from time to time, apply to the sale of goods and services by ATM under an Order. OneSteel's Standard Terms and Conditions of Sale are available at <http://www.austubemills.com> or from any ATM business on request.

OneSteel may amend the Standard Terms and Conditions of Sale at any time. Please check ATM's web site or contact the ATM business for a copy of the current Standard Terms and Conditions of Sale prior to placement of an Order. The placing of an Order constitutes an acknowledgement that you have read, and agreed to be bound by, OneSteel's Standard Terms and Conditions of Sale.

ATM reserves the right to change the details of an Order in the case of circumstances or events not foreseen by ATM at the time of Order placement. ATM will endeavour to minimise the extent of any changes to an Order and will notify you in writing of any such changes. You will have no claim against ATM in respect of any changes to an Order.

Determining Lead Time

6.0 DETERMINING LEAD TIME

6.1 Stock Availability

ATM MARKET PROMISE DELIVERY SUMMARY			
Inventory Availability		DifOT Target	ATM Minimum Commitment
A Class	98%	95%	93.1%
B Class	95%	95%	90.3%
C Class	90%	95%	85.5%
F Class	Next Available Rolling	95%	95.0%
M Class	Next Available Rolling	95%	95.0%

6.2 Ex Stock Lead Times (Working Days)

Delivery Region	Order Receipt and Processing	Pick, Consolidate & Despatch	Transport Time (Driver Fatigue Management)			Recommended Delivery Lead Time	Delivery Lead Time Window
			Acacia Ridge	Newcastle	Somerton		
Auckland & Christchurch	0	10	18	18	18	28	28
Zones A and B	0	10	25	25	25	35	35

Notes:

The day the order is received and acknowledged is Day 0.

ATM target is to deliver within Order + Pick + Transport for material from the nearest available supply point.

Transport times subject to legislative requirements of Driver Fatigue Management Chain of Responsibility.

No liability is accepted by ATM for late delivery.

Lead Times

7.0 LEAD TIMES

7.1 Rolling Lead Time

Rolling lead times are detailed in the monthly Delivery Programme.

The Delivery Programme is issued in hard copy and electronically to registered users.

7.2 Finishing Lead Time for Ex Rolling Items

Finishing lead times are given in working days based on a 5-day working week.

Table 1 - Circular Hollow Section - Finishing Lead Time

Material	Finishing Lead Time for Size Ranges (Working Days)	
	15NB - 50NB	65NB - 150NB
Clear, Plain ends	1	1
Clear, Screwed Both Ends	5	5
No Oil or Paint, Plain Ends	1	1
No Oil or Paint, Screwed Both Ends	5	5
Painted Plain Ends	1	1
Painted Screwed Both Ends	5	5
Galvanised Plain Ends	10	10
Galvanised Screwed Both Ends	15	15
Galvanised Swaged	15	-
In Line Galvanised, Plain Ends*	1	1
In Line Galvanised, GRE/GOE*	20	20
Galvanised, GRE/GOE	25	25
SupaGal [®]	1	-
DuraGal [®]	1	-
Galvanised, Shouldered Ends	25	25

Table 2 - Rectangular Hollow Section and DuraGal[®] Profiles - Finishing Lead Time

Product Finish	Finishing Lead Time (Working Days)
SupaGal [®]	1
DuraGal [®]	1
Lite Oil	1
Clear	1
No Oil or Paint (Coating (NOPC)	1
Painted	1

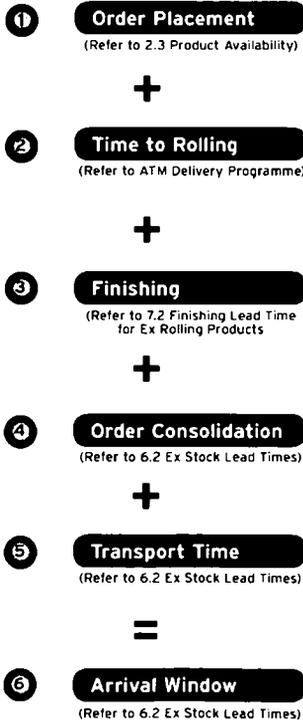
- Notes:**
1. The lead time for screwed one end product is the same as for screwed both ends.
 2. For Charpy tests for RHS and ROPS RHS, add 5 working days to the lead-time shown above.

Lead Times

7.3 Order Consolidation Lead Time

The Order consolidation lead time is the time needed to schedule and organise an Order for despatch.

7.4 Ex Rolling Lead Time



EXAMPLE

An Order is placed for an Ex Rolling product (50NB Clear Plain ends) 7 working days prior to the rolling week, for delivery into Auckland (Day 0) from Acacia Ridge.

The Rolling lead time in this example is 7 days. The product may be rolled any time through the rolling week. The product will be rolled between Day 8 and Day 13.

Finishing for this product will take 1 working day. The product will be finished on Day 14.

In This example order consolidation will occur between Day 15 and Day 25.

The Order Items are transported to the delivery destination (Auckland) over the next 18 days (26 and 43).

In this example the Ordered Item will arrive up to 43 days after placement of order.

Lead Times

7.5 Stock Classification Definitions

ATM MARKET OFFER PRODUCT DEFINITIONS			
Class	Promise	Definition	Comment
A	Ex Stock	98% Availability	Criteria based on ATM sales volumes
B	Ex Stock	95% Availability	Criteria based on ATM sales volumes
C	Ex Stock	90% Availability	Criteria based on ATM sales volumes
F	Next Available Rolling	Dimensions Gauge Length Finish Coil MOQ	within existing A, B, C class items within existing A, B, C class items non standard plus low volume standard items Subject to specific mill capability, requests for rolled lengths of between 4.2 and 13.3 metres may be accepted standard finishes available usually ex stock no minimum order quantity restriction - supply in single packs
M	Next Available Rolling	Dimensions Gauge Finish Length Grade MOQ Order Volume Coil Outsourced	may or may not be within existing A, B, C class items may or may not be within existing A, B, C class items may be any finish May be either standard or non-standard Subject to specific mill capability, requests for rolled lengths of between 4.2 and 13.3 metres may be accepted All non standard grades are M Class Minimum Order Quantity restriction is in place Customer to accept over/under-roll at the unit price quoted for the original order of +/-10% including part packs For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible May need to be specifically purchased Standard material outsourced by ATM may carry MOQ in line with supply point criteria Supply will be in single packs in line with MOQ

Notes:

Minimum Order Quantity for a specific section will be available on request

Contact Directory

8.0 CONTACT DIRECTORY

Title and Name	Land Line	Mobile	Email	Site
Regional Sales Manager New Zealand John Frear	+64 9820 4236	+61 21 663 291	frearj@onesteel.com	AUK
Account Manager New Zealand Brendan Smith	+64 9820 4235	+61 21 549 502	smithbj@onesteel.com	AUK
Sales & Service	0800 445 547	0061 7 3909 6660	atmsales@austubemills.com	AR

AUK: Ground Floor, 485B Rosebank Road
Avondale, Auckland NZ 1026

Glossary

9.0 GLOSSARY

Term	Definition
AUD\$:	Australian Dollars.
Blk:	Black.
Certificate of Compliance:	A statement that the product supplied complies with the relevant specification
CHS:	Circular Hollow Section.
Clr:	Clear
Charpy Impact Test Certificate:	A statement of results for a test measuring the toughness of steel (ie. how it responds to shock loads).
CSC:	Customer Service Centre.
DN:	Nominal Size.
DuraGal®:	The brand name used for in-line galvanized product
Ex-Rolling:	Products sold from a planned production run.
Ex-Stock:	Products sold out of stock held in a warehouse.
FIS:	Free into store on truck with the customer responsible for unloading.
Full Truckload Order:	An Order for a quantity of goods that has a nominal weight of 24 tonne, subject to volume constraints or as otherwise determined by ATM.
GOE:	Grooved One End.
GRE:	Grooved Both Ends.
L:	Light
MOQ:	Minimum Order Quantity.
M:	Medium
MRO:	Minimum Rolling Quantity.
NB:	Nominal Size
NOPC:	No Oil or Paint Coating. Priced the same as painted or clear sections
OD:	Outside Diameter.
ATM:	Australian Tube Mills Pty Ltd ABN 21 123 666 679.
Order Item / SKU:	An order item is a product of one size / grade / specification / surface finish / end finish and length.

Glossary

Product of a Rolling:	The total quantity of material produced from rolling a single SKU is subject to coil size and mill yield variability.
PTD:	Painted.
RHS:	Rectangular Hollow Section
Ship to Address:	The place you require the Order Items to be delivered.
SHS:	Square Hollow Section
SKU:	Stock Keeping Unit.
SupaGal®:	The brand name used for pre-galvanized product.
Test Certificate:	A statement of results for mechanical and / or chemical properties relating to tests performed by ATM for the purpose of establishing compliance to the relevant standard.
You / Customer:	The person or entity that places the Order with ATM.
Order:	An Order constitutes an offer by a ATM customer to purchase the goods described in the Order on ATM's Standard Terms and Conditions of Sale.
Working Days:	The days from Monday to Friday inclusive, excluding public holidays.
XH:	Extra Heavy.
XL:	Extra Light

Appendix A

10.0 APPENDICES

The following documents are examples of typical paperwork (hard copy and facsimiles) involved in doing business with ATM.

10.1 Order Acknowledgement (faxed)

FORM 1 (MAY 2007) (REVISED) DATE: 10 JUL 2009 TIME: 09:07:35 PAGE: 001 of 001

	ORDER ACKNOWLEDGEMENT
	OneSteel Australian Tube Mills Pty Ltd
	ABN 21 123 666 679

Your Order: 7502095101	Our Reference: 817217
Order Date: 13/07/09	Customer Code: 28136

Ordered by:	Deliver to:
JOB SMITH XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX	JOB SMITH XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX

all advise details contact XXXXXXXX XXXXX as at 31/3/06.
Prices Exclude GST
contact XXXXXXXX XXXXX for all documents

Cst Lne	Quantity	Unit	Price	Request	Delivery By
7	721.500	M	**.**	31/07/09	31/07/09
	3 PK 50NB MED TUBELINE PTD RED PE 6.5 M 107471163 C250L0				
	Material now available for your order				
	End of Order				

Acknowledged
Delivery Date

For inquiries please phone Customer Service 1800 281 424
Subject to:
Australian Tube Mills Pty Ltd. Conditions of Quotation & Sale

Appendix B

10.2 Order Revision/Report (faxed)

From : OneSteel Newcastle

Date : 28 Jul 2009 Time : 09:14:20 Page : 001 of 001

onesteel ORDER REVISION/REPRINT

OneSteel Trading Pty Limited
ABN 50 007 519 648

Your Order: 7502097701
Order Date: 15/07/09

Our Reference: 817444
Customer Code: 428306

Ordered by:

Deliver to:

JOE SMITH
XX XXXXXX XXXXXX
XXXXXXXXXXXX XXX XXXX

JOE SMITH
XX XXXXXX XXXXXX
XXXXXXXXXXXX XXX XXXX

Prices Exclude GST

Est Line	Quantity	Unit	Price	Request	Delivery By
1	5486.400	M	**.**	1/08/09	1/08/09
	3 PK 12.7 x 1.8 x 4572		TS41 Commercial		Screw & Socket
		End of Order			

Requested Date

Revised Date

** Delivery promise is later than request date.
For inquiries please phone the Regional Sales Office

Subject to OneSteel Trading Pty Ltd. Conditions of Quotation & Sale

Appendix C

10.3 Certificate of Compliance and Advance Shipping Notice (faxed)

Form: OMS(Steel) 06/2007

Date: 23 Jul 2008 Time: 09:08:26 Page: 001 of 001

 australiian tube mills	CERTIFICATE OF COMPLIANCE AND ADVANCE SHIPPING NOTICE One Steel Australian Tube Mills Pty Ltd ABN 21 123 666 679
-------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------

ASN#: 405530	ETA:
Despatch From: ATM ACACIA RIDGE	Truck No: 549-CVB
Despatch Date: 20/07/09	Carrier 1: K & S
Despatch Time: 08:59:14	Carrier 2:
Manifest#: 201753	Flat Reck:

Ordered by:

Deliver to:

JOE SMITH
XX XXXXXX XXXXXX
XXXXXXXXXXXX XXX XXXX

JOE SMITH
XX XXXXXX XXXXXX
XXXXXXXXXXXX XXX XXXX

CERTIFICATE OF COMPLIANCE: All products comply with the specifications stated on the despatch advice and packing labels.

Statement of Compliance

PO Line	Item	Mass(T)	Qty	U/M
Cust Order: 7502093781 Our Ref: 817088 Invoice No: 514998				
4	249189	1.689	1.000	PK
40X	4013.0 PREGAL 8.0M	O2TUBE/C350/ERW	64.000	LN
Cust Order: 7502096592 Our Ref: 817356 Invoice No: 514999				
1	105476	5.670	3.000	PK
RHS-150-150-6.0-C350L0-BLK-12000			18.000	LN
3	213216	1.708	1.000	PK
RHS-200-200-6.0-C350L0/C450L0-PTD-12000			4.000	LN
			Totals:	9.067 5.000 PK
End of ASN				

For inquiries please contact forwarding officer on 07 3909 6629

Appendix D

10.4 Carrier Manifest (hard copy - used by driver)

onesteel
australian tube mills

Carrier Manifest

Manifest No: 201753 Picklist: 382857 Carrier: K & S
 Despatch From: ATM ACACIA RIDGE Truck: 549-CVB
 Despatch Date: 20/07/09 Load Truck at: 103 INGRAM
 Despatch Time: 8:55:17 Flat Rack:

Delivery Address	Contact & Phone No.	Packs	Tonnes
XXXXXXXX XXXXXXXX XXX XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX	JOE SMITH XX XXXX XXXX		
Advice Note: 514987		2	4.725
PRINT NAME: _____ Signature: _____ Receipt Date: _____			
XXXXXXXX XXXXXXXX XXX XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX	JOE SMITH XX XXXX XXXX		
Advice Note: 514998		1	1.689
514999		4	7.378
PRINT NAME: _____ Signature: _____ Receipt Date: _____			
XXXXXXXX XXXXXXXX XXX XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX	JOE SMITH XX XXXX XXXX		
Ensure your receiving stores sign and date for the correct line item			
Advice Note: 515000		1	1.033
515001		2	2.915
515002		3	3.059
PRINT NAME: _____ Signature: _____ Receipt Date: _____			
XXXXXXXX XXXXXXXX XXX XX XXXXXX XXXXXX XXXXXXXXXXXX XXX XXXX	JOE SMITH XX XXXX XXXX		
Advice Note: 515003		2	2.453
PRINT NAME: _____ Signature: _____ Receipt Date: _____			
Totals:		15	23.252

***** End of Manifest *****

This document forms part of the POD. Please ensure your receiving staff legibly print, sign and date the correct line. Any issues with the delivered product need to be raised at time of delivery.

© 2008 Australian Tube Mills Pty. Ltd. ABN 21 122 888 628



Appendix E

10.5 Delivery Advice Docket (hard copy provided with delivery)

1 of 1
Page: 20/07/09
Date: 8:35:15
Time:

Customer Copy

Truck Number: 646-CYB
Carrier: K&S FREIGHTERS
Load Manifest: 201753
ASN: 405531

DELIVERY ADVICE DOCKET

Telephone: 1800 281 024

one steel
australian tube mills

Deliver to:
XXXXXXXX XXXXXX XXX
XX XXXXXX XXXXXX
XXXXXXXXXXXX XXX XXX

Description	Your Order & Line	Your Item	Quantity	Mass (T)	Back Order	Invoice
1,000 PK 60NB MED TUBELINE BLX PE 6.5M 1074/1183 C250L0 Pack Numbers: 7109197011	7502098238 1 100774		123 500 M 19 LN	1.033		515000
1,000 PK 60NB HYY TUBELINE CLR PE 6.5 M 1074/1183 C250L0 Pack Numbers: 7009198025	7502096970 10 100780		123 500 M 19 LN	1.480		515001
1,000 PK 200X200X5.0 CLR RHS 8.0M AS1183 C350L0 Pack Numbers: 7089168021	7502096870 4 102399		48 000 M 6 LN	1.435		515001
3,000 PK 150X 50X2.0 GAL 140 RHS 8.0 M AS1183 C350/C450L0 Pack Numbers: 7109154026 7109154028	7502097633 1 223566 7109154033		504 000 M 83 LN	3.058		515002

Total Mass: 7 007

Receipt Date:

Signature:

CERTIFICATE OF COMPLIANCE: All products comply with the specifications stated on the delivery advice and pack labels

Packlist No.: 362857

Customer Acknowledgement: 18/07/09 13:44:09

one steel
australian tube mills

Effective from: 21 May 2010
Cancels Pricing Guide dated: 27 November 2009
Applicable For: Australia
Page: 21

Appendix F

10.6 Tax Invoice (hard copy or faxed)



Payments: PO BOX 245c NEWCASTLE NSW 2300
Inquiries: PO BOX 4864 MILPERRA NSW 1801 PH (02) 9792 0002 FAX (02) 9792 9053

Date: 22/07/09
Page: 1 of 1

Tax Invoice

Invoice to: XXXXXXXXXXXXXXXXXXXX XXX
XXXXXXXXXX XXXXXXXXXXX XXX
XX XXXXXX XXXXXX
XXXXXXXXXXXXXXX XXX XXXX

Customer Code	25141
Invoice Number	514998
Our Reference	817356
Your Order	7502096592

Deliver to: XXXXXXXXXXXXXXXXXXXX XXX
XXXXXXXXXX XXXXXXXXXXX XXX
XX XXXXXX XXXXXX
XXXXXXXXXXXXXXX XXX XXXX

Reprint
Original Invoice Date: 2007/09

Line #	Description	Quantity	Price	Amount
1	87684 150X150X8.0 TUBELINE RHS CLR 12.0 M AS1163 C350L0			
	3,000 Pk 105476 Complete	18,000LN	216 000 M	\$****.00
	PACK NO. 7009155014 7009176019 7008178020			
2	55055 200X200X8.0 BLUEPLUS RHS 12.0 M AS1163 C350/450L0			
	1,000 PK 213216 Complete	4,000LN	48 000 M	\$****.00
	PACK NO. 7009170058			

Total Payable on **TH ***** ** \$****.00
Plus GST \$****.00
Invoice Total \$****.00

Refer to Our Conditions of Sale and Terms
On Order Australian Tube Mills Pty Ltd ABN 21 123 858 878

12/21/09



Effective from: 21 May 2010
Cancels Pricing Guide dated: 27 November 2009
Applicable For: Australia
Page: 22

onesteel
australian tube mills

Pipe & Tube Structural Products

Product

Availability Guide

Effective From: 1 February 2011

Cancels previous Guide dated: 5 July 2010

Applicable For: Australia & New Zealand

Product Availability Guide

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Medium Pipe – Grade C250L0:	
Clear & Hot Dip Gal	3
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Clear & Hot Dip Gal	4
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Clear & Oiled	5

Square Hollow Sections (SHS)

Structural SHS – Grade C350L0 & C450PLUS™:	
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OneSteel Australian Tube Mills

This publication has been prepared by OneSteel Australian Tube Mills Pty Ltd ABN 21 123 666 679. Please note that the specifications and technical data are subject to change without notice and to ensure accuracy users of this publication are requested to check the information to satisfy themselves and not to rely on the information without first doing so. Unless required by law, the company cannot accept any responsibility for any loss, damage or consequence resulting from the use of this publication. Issue 5, 1 February 2011, TS1128. This brochure is not an offer to trade and shall not form any part of the trading terms in any transaction. Copyright 2009-2011 OneSteel Australian Tube Mills Pty Ltd ABN 21 123 666 679. Registered Trademark: SupaGal®, KlineKato®, C450PLUS™, DuraGal®, Tubelone®, BluePlus®, S-i-tek™, GAL140®

Red Painted Pipe CHS Grade C250L0

MEDIUM - RED PAINTED PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS AND SCREWED & SOCKETED

Designation d_o t mm	Nominal Size DN	Painted PE	Painted SOE	Painted SBE	Painted SS
6.5 Metres					
26.9 x 2.6	20 M	✓	-	-	-
33.7 x 3.2	25 M	✓	✓	✓	X
42.4 x 3.2	32 M	✓	✓	✓	X
48.3 x 3.2	40 M	✓	✓	X	X
60.3 x 3.6	50 M	✓	✓	✓	X
76.1 x 3.6	65 M	✓	-	X	-
88.9 x 4.0	80 M	✓	-	-	-
101.6 x 4.0	90 M	X	-	-	-
114.3 x 4.5	100 M	✓	-	X	X
139.7 x 5.0	125 M	X	-	-	X
165.1 x 5.0	150 M	✓	X	-	X

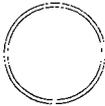
Pack Size	Painted PE, SOE & SBE		Painted SS
	Ln	kg/m	
127	156		
91	241	2.44	
61	310	3.14	
61	357	3.61	
37	503	5.10	
37	643		
19	837		
19	963		
19	122	12.5	
13	16.6	17.0	
10	19.7	20.2	

✓	Ceils are ex-stock items
X	Ceils are available ex-rolling only. Refer to Delivery Schedule
■	Both ceils are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: Dupl Specification: AS 1074 and AS/NZS 1163 - C250L0

For MOQ items, the actual delivery quantity will be to the nearest pack or unit pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

Red Painted Pipe



Extra Light & Light CHS Grade C350L0

EXTRA LIGHT - CLEAR, HOT DIP GAL, SUPAGAL® & DURAGAL® - PLAIN ENDS

Designation $d_o \quad l$ mm	Nominal Size DN	Clear	Hot Dip Gal	SupaGal®	DuraGal®
6.5 Metres					
269 x 2.0	20 XL	X	X	X	X
337 x 2.0	25 XL	X	✓	✓	X
424 x 2.0	32 XL	X	X	X	X
483 x 2.3	40 XL	✓	X	X	X
603 x 2.3	50 XL	✓	✓	X	X
761 x 2.3	65 XL	-	X	X	-
889 x 2.6	80 XL	-	X	X	-
1016 x 2.6	90 XL	X	X	-	-
1143 x 3.2	100 XL	✓	X	-	-
1397 x 3.0	125 XL	X	X	-	-
1651 x 3.0	150 XL	✓	X	-	-

Pack Size	Clear SupaGal® DuraGal®		Hot Dip Gal
	Lns	kg/m	
127	1.23	1.28	
91	1.56	1.62	
61	1.99	2.07	
61	2.61	2.70	
37	3.29	3.40	
37	4.19	4.33	
19	5.53	5.75	
19	6.35	6.64	
19	8.77	9.05	
13	10.1	10.5	
10	12.0	12.4	

Extra Light

LIGHT - CLEAR & HOT DIP GAL - PLAIN ENDS

Designation $d_o \quad l$ mm	Nominal Size DN	Clear	Hot Dip Gal
6.5 Metres			
269 x 2.3	20 L	X	X
337 x 2.6	25 L	✓	✓
424 x 2.6	32 L	✓	✓
483 x 2.9	40 L	✓	X
603 x 2.9	50 L	X	X
761 x 3.2	65 L	X	X
889 x 3.2	80 L	✓	X
1016 x 3.2	90 L	X	X
1143 x 3.6	100 L	✓	X
1397 x 3.5	125 L	✓	X
1651 x 3.5	150 L	✓	X

Pack Size	Clear		Hot Dip Gal
	Lns	kg/m	
127	1.40	1.44	
91	1.99	2.05	
61	2.55	2.63	
61	3.25	3.33	
37	4.11	4.21	
37	5.75	5.89	
19	6.76	6.92	
19	7.77	8.02	
19	9.83	10.0	
13	11.8	12.1	
10	13.9	14.4	

Light

EXTRA LIGHT & LIGHT - CLEAR & HOT DIP GAL - SWAGED ONE END, SWAGED BOTH ENDS

Designation $d_o \quad l$ mm	Nominal Size DN	Clear SWOE	Hot Dip Gal SWOE	Hot Dip Gal SWBE
6.5 Metres				
269 x 2.0	20 XL	-	X	X
337 x 2.0	25 XL	-	X	X
337 x 2.6	25 L	-	X	X
424 x 2.0	32 XL	-	X	X
424 x 2.6	32 L	-	X	X
483 x 2.3	40 XL	-	X	X
483 x 2.9	40 L	-	X	X
603 x 2.3	50 XL	-	X	X
603 x 2.9	50 L	-	X	-

Pack Size	Clear		Hot Dip Gal
	Lns	kg/m	
127	1.23	1.28	
91	1.56	1.62	
91	1.99	2.05	
61	1.99	2.07	
61	2.55	2.63	
61	2.61	2.70	
61	3.25	3.33	
37	3.29	3.40	
37	4.11	4.21	

Swaged

- ✓ Cells are ex-stock items.
- X Cells are available ex-rolling only. Refer to Delivery Schedule
- X Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specif. codes: AS/NZS 1163 - C350L0 - Hot Dip Gal - ASA-ZS4792 - HG 300

For MOQ terms the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to long within the +/- 10% volume tolerance as possible

OneSteel Australian Tube Mills



Medium CHS Grade C250L0

MEDIUM - CLEAR PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation d_o / mm	Nominal Size DN	Clear PE	Clear SOE	Clear SBE	Clear SS
6.5 Metres					
213 x 2.6	15 M*	X	-	-	-
269 x 2.6	20 M	✓	X	X	-
337 x 3.2	25 M	✓	-	X	-
424 x 3.2	32 M	✓	-	X	-
483 x 3.2	40 M	✓	-	X	-
603 x 3.6	50 M	✓	-	X	-
761 x 3.6	65 M	✓	-	-	-
889 x 4.0	80 M	✓	-	-	-
1016 x 4.0	90 M	✓	-	-	-
1143 x 4.5	100 M	✓	-	-	-
1397 x 5.0	125 M	✓	-	-	-
1651 x 5.0	150 M	✓	-	-	-

Pack Size	Clear PE, SOE & SBE		Clear SS
	Ln	kg/m	
127	1.21	-	-
91	1.56	1.57	-
61	2.41	2.44	-
37	3.10	3.14	-
37	3.57	3.61	-
37	5.03	5.10	-
37	6.43	6.53	-
19	8.37	8.52	-
19	9.63	-	-
19	12.2	12.4	-
13	16.6	17.0	-
10	19.7	20.2	-

Medium Clear

MEDIUM - HOT DIP GAL PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation d_o / mm	Nominal Size DN	Hot Dip Gal PE	Hot Dip Gal SOE	Hot Dip Gal SBE	Hot Dip Gal SS
6.5 Metres					
269 x 2.6	20 M	X	X	X	X
337 x 3.2	25 M	✓	X	✓	X
424 x 3.2	32 M	✓	X	✓	X
483 x 3.2	40 M	✓	X	✓	X
603 x 3.6	50 M	✓	X	✓	X
761 x 3.6	65 M	✓	X	X	X
889 x 4.0	80 M	X	X	X	X
1016 x 4.0	90 M	✓	X	X	-
1143 x 4.5	100 M	✓	X	X	X
1397 x 5.0	125 M	✓	X	X	X
1651 x 5.0	150 M	✓	X	X	X

Pack Size	Hot Dip Gal PE, SOE & SBE		Hot Dip Gal SS
	Ln	kg/m	
127	1.60	1.62	-
91	2.47	2.50	-
61	3.18	3.21	-
61	3.65	3.70	-
37	5.14	5.21	-
37	6.56	6.67	-
19	8.53	8.68	-
19	9.81	-	-
19	12.4	12.6	-
13	16.9	17.2	-
10	20.0	20.5	-

Medium Hot Dip Gal

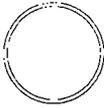
- ✓ Cells are ex-stock items.
- X Cells are available ex-rolling only. Refer to Delivery Schedule.
- ✗ Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule.

Specifications: Dual Specified - AS1074 and AS/NZS 1163 - C250L0 Hot Dip Gal - AS/NZS4792 HDG 300

*DN 15 M supplied as ATM0601 in cold and Hot Dip Gal finish only.

For MOQ items the actual delivery quantity will be to the nearest pack or can pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

OneSteel Australian Tube Mills



Heavy & Extra Heavy CHS Grade C250L0

HEAVY - CLEAR PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation d_o t mm	Nominal Size DN	Clear PE	Clear SOE	Clear SBE	Clear SS
6.5 Metres					
26.9 x 3.2	20 H	✓	X	X	-
33.7 x 4.0	25 H	✓	X	X	-
42.4 x 4.0	32 H	✓	-	X	-
48.3 x 4.0	40 H	✓	X	X	-
60.3 x 4.5	50 H	✓	X	X	-
76.1 x 4.5	65 H	✓	-	-	-
88.9 x 5.0	80 H	✓	-	X	-
101.6 x 5.0	90 H	✓	-	-	-
114.3 x 5.4	100 H	✓	-	-	X
139.7 x 5.4	125 H	✓	-	X	-
165.1 x 5.4	150 H	✓	-	-	-

Pack Size	Clear PE, SOE & SBE		Clear SS
	Lns	kg/m	
127	1.87	1.89	
91	2.94	2.96	
61	3.80	3.83	
61	4.38	4.43	
37	6.19	6.26	
37	7.93	8.04	
19	10.3	10.5	
19	11.9	-	
19	14.5	14.7	
13	17.9	18.2	
10	21.3	21.7	

Heavy Clear

HEAVY - HOT DIP GAL PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation d_o t mm	Nominal Size DN	Hot Dip Gal PE	Hot Dip Gal SOE	Hot Dip Gal SBE	Hot Dip Gal SS
6.5 Metres					
26.9 x 3.2	20 H	X	X	X	X
33.7 x 4.0	25 H	X	X	X	-
42.4 x 4.0	32 H	✓	X	X	X
48.3 x 4.0	40 H	X	X	X	X
60.3 x 4.5	50 H	✓	X	✓	X
76.1 x 4.5	65 H	X	X	X	X
88.9 x 5.0	80 H	✓	X	X	-
101.6 x 5.0	90 H	X	X	X	-
114.3 x 5.4	100 H	X	X	X	X
139.7 x 5.4	125 H	X	X	X	X
165.1 x 5.4	150 H	X	X	X	X

Pack Size	Hot Dip Gal PE, SOE & SBE		Hot Dip Gal SS
	Lns	kg/m	
127	1.92	1.93	
91	3.00	3.02	
61	3.87	3.91	
61	4.46	4.51	
37	6.30	6.37	
37	8.07	8.18	
19	10.5	10.7	
19	12.1	-	
19	14.7	14.9	
13	18.1	18.5	
10	21.6	22.0	

Heavy Hot Dip Gal

EXTRA HEAVY - CLEAR PLAIN ENDS*

Designation d_o t mm	Nominal Size DN	Clear
6.5 Metres		
26.9 x 4.0	20 XH	X
48.3 x 5.4	40 XH	✓
60.3 x 5.4	50 XH	✓
76.1 x 5.9	65 XH	✓
88.9 x 5.9	80 XH	✓

Pack Size	Clear	
		Lns
127	2.26	
61	5.71	
37	7.31	
37	10.2	
19	12.1	

Extra Heavy Painted

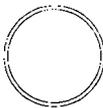
- ✓ Cells are ex-stock items
- X Cells are available ex-rolling only. Refer to Delivery Schedule
- X Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: Dual Spec'ed - AS1074 and AS/NZS 1163 - C250L0; Hot Dip Gal - AS/NZS4792 HDG 300

*Extra Heavy Plain Ends is supplied to AS/NZS 1163 - C250LD only

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

OneSteel Australian Tube Mills



Large Structural CHS Grade C350L0

LARGE STRUCTURAL - TRP PLAIN ENDS

Designation	d_o mm	t	Clear
12.0 Metres			
168.3 x 4.8			✓
	6.4		✓
	7.1		X
219.1 x 4.8			X
	6.4		✓
	8.2		X
273.1 x 4.8			X
	6.4		X
	9.3		X
	12.7		X
323.9 x 6.4			X
	12.7		X
355.6 x 6.4			X
	12.7		X
406.4 x 6.4			X
	9.5		X
	12.7		X
457.0 x 6.4			X
	9.5		X
	12.7		X
508.0 x 6.4			X
	9.5		X
	12.7		X

Pack Size	Clear & Oiled	
	Lns	kg/m
1		19.4
1		25.6
1		28.2
1		25.4
1		33.6
1		42.6
1		31.8
1		42.1
1		60.5
1		81.6
1		50.1
1		97.5
1		55.1
1		107
1		63.1
1		93.0
1		123
1		71.1
1		105
1		139
1		79.2
1		117
1		155

- ✓ Cells are ex-stock items
- X Cells are available ex-rolling only. Refer to Delivery Schedule
- X Both cells are ex-rolling and require MOO. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C350L0

Availability: Sizes subject to enquiry, including NOPC (No oil or paint coating and no end cone)

TRP = Temporary Rust Preventative

1 for MOO items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible

Large Structural

Grade C350L0 & C450PLUS™

SHS - PAINTED, SUPAGAL® & DURAGAL®

Designation			\$/m		
d	b	t	Painted C350L0	SupaGal® C350L0	DuraGal® C450PLUS™
mm					
20	x 20	x 16	✓	✓	✓
		20	✓	X	-
25	x 25	x 16	✓	✓	✓
		20	✓	✓	✓
		25	✓	✓	✓
		30	✓	X	X
30	x 30	x 16	X	✓	✓
		20	✓	✓	✓
		25	✓	X	-
		30	X	X	-
35	x 35	x 16	X	✓	✓
		20	✓	✓	✓
		25	✓	✓	✓
		30	✓	X	X
40	x 40	x 16	✓	✓	✓
		20	✓	✓	✓
		25	✓	✓	✓
		30	✓	✓	✓
		40	✓	✓	✓
50	x 50	x 16	✓	✓	✓
		20	✓	✓	✓
		25	✓	✓	✓
		30	✓	✓	✓
		40	✓	✓	✓
		50	✓	✓	✓
		60	✓	-	-

- ✓ Cells are ex-stock items
- X Cells are available ex-rolling only. Refer to Delivery Schedule.
- X Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule.

50x50x6 is supplied as Oiled

For MOQ items the actual delivery quantity will be to the nearest pack or pan, pack whichever is greater as close to being within the +/-10% volume tolerance as possible. C450PLUS™ equivalent sections for painted and SupaGal® surface finish may be available ex-rolling subject to mill limitations.

Specifications AS/NZS 1163 - C350L0

AS/NZS 1163 - C450L0 supplied as C450PLUS™

Pack Size (Lns)		All Listed Finishes
All Listed Finishes	All Listed Finishes	
6.5m	8.0m	kg/m
96	-	0.873
96	-	1.05
100	-	1.12
100	-	1.36
100	-	1.64
100	-	1.89
-	100	1.38
-	100	1.68
-	100	2.03
-	64	2.36
-	100	1.63
-	100	1.99
-	64	2.47
-	64	2.83
-	81	1.88
-	81	2.31
-	64	2.82
-	64	3.30
-	49	4.09
-	64	2.38
-	64	2.93
-	49	3.60
-	49	4.25
-	36	5.35
-	30	6.39
-	25	7.37

SHS



SHS
C450PLUS™

SHS - PAINTED, CLEAR, OILED, SUPAGAL® & DURAGAL®

Designation			\$/m				
d	b	t	Painted C450PLUS™	Clear* C450PLUS™	Oiled C450PLUS™	SupaGal® C450PLUS™	DuraGal® C450PLUS™
mm							
65 x 65 x 16			X	-	-	X	✓
	20		X	-	-	X	✓
	25		✓	-	-	✓	✓
	30		✓	-	-	✓	✓
	40		✓	-	-	✓	✓
	50		✓	-	-	X	X
	60		✓	-	-	-	X
75 x 75 x 2.0			✓	-	-	✓	✓
	2.5		✓	-	-	✓	✓
	3.0		✓	-	-	✓	✓
	3.5		✓	-	-	✓	X
	4.0		✓	-	-	✓	✓
	5.0		✓	-	-	✓	✓
	6.0		✓	-	-	✓	✓
89 x 89 x 2.0			✓	-	-	✓	✓
	3.5		✓	-	-	✓	✓
	5.0		✓	-	-	✓	✓
	6.0		✓	-	-	-	X
100 x 100 x 2.0			X	-	-	-	✓
	2.5		-	-	-	X	X
	3.0		✓	-	-	✓	✓
	4.0		✓	-	-	✓	✓
	5.0		✓	-	-	✓	✓
	6.0		✓	-	-	-	✓
	8.0		-	-	X	-	-
	9.0		-	-	✓	-	-
	10.0		-	-	X	-	-
125 x 125 x 4.0			✓	-	-	-	-
	5.0		✓	-	-	-	-
	6.0		✓	-	-	-	-
	8.0		-	-	X	-	-
	9.0		-	-	✓	-	-
	10.0		-	-	X	-	-

✓	Cells are ex-stock items
X	Cells are available ex-rolling only. Refer to Delivery Schedule
X	Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: All sections to AS/NZS 1163 - C450LD supplied as C450PLUS™ as marked
 * Clear supplied as TRP (Temporary Rust Preventative)

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible

Pack Size (Lns)		All Listed Finishes
All Listed Finishes	All Listed Finishes	
8.0m	12.0m	kg/m
-	49	3.13
-	42	3.88
-	42	4.78
-	36	5.66
-	30	7.25
-	25	8.75
-	20	10.1
36	-	4.50
30	30	5.56
30	25	6.60
25	20	7.53
25	15	8.49
20	15	10.3
16	-	12.0
20	-	5.38
20	16	9.07
16	12	12.5
12	9	14.7
20	20	6.07
20	-	7.53
20	16	8.96
16	12	11.6
12	9	14.2
12	9	16.7
-	6	21.4
9	6	23.5
-	6	25.6
12	9	14.8
12	9	18.2
9	6	21.4
-	4	27.7
8	4	30.6
-	4	33.4

SHS

OneSteel Australian Tube Mills

Effective from: 1 February 2011
 Cancels Previous Pages: 5 July 2010

Applicable For: Australia & New Zealand
 Page 7



SHS - PAINTED, CLEAR & OILED

Designation			S/m		
d	b	t	Painted C450PLUS™	Clear* C450PLUS™	Oiled C450PLUS™
mm					
150 x 150 x 5.0			✓	-	-
6.0			✓	-	-
8.0			-	-	X
9.0			-	-	✓
10.0			-	-	✓
200 x 200 x 5.0			✓	-	-
6.0			✓	-	-
8.0			-	X	-
9.0			-	✓	-
10.0			-	-	✓
12.5			-	-	✓
16.0			-	-	✓
250 x 250 x 6.0			-	✓	-
8.0			-	X	-
9.0			-	✓	-
10.0			-	-	X
12.5			-	-	✓
16.0			-	-	X
300 x 300 x 8.0			-	-	✓
10.0			-	-	✓
12.5			-	-	✓
16.0			-	-	✓
350 x 350 x 8.0			-	-	X
10.0			-	-	✓
12.5			-	-	✓
16.0			-	-	✓
400 x 400 x 10.0			-	-	✓
12.5			-	-	✓
16.0			-	-	✓

✓	Ce's are ex-stock items
X	Ce's are available ex-rolling only. Refer to Delivery Schedule
X	Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: All sections to AS/NZS 1163 - C450LD supplied as C450PLUS™ as marked

* Clear succed as TRP (Temporary Rust Preventative)

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible

Pack Size (Lns)		All Listed Finishes
All Listed Finishes	All Listed Finishes	
8.0m	12.0m	kg/m
9	6	22.1
6	6	26.2
-	4	33.9
6	4	37.7
-	2	41.3
6	4	29.9
4	4	35.6
4	2	46.5
4	2	51.8
-	2	57.0
-	2	69.4
-	1	85.5
-	2	45.0
-	2	59.1
2	2	65.9
-	2	72.7
-	1	89.0
-	1	111
-	1	71.6
-	1	88.4
-	1	109
-	1	136
-	1	84.2
-	1	104
-	1	128
-	1	161
-	1	120
-	1	148
-	1	186

SHS

OneSteel Australian Tube Mills

Effective from: 1 February 2011

Cancels Previous Pages: 5 July 2010

Applicable For: Australia & New Zealand

Page: 8

RHS

Grade C350LO & C450PLUS™

RHS - PAINTED, SUPAGAL® & DURAGAL®

Designation			\$/m		
d	b	t	Painted C350LO	SupaGal® C350LO	DuraGal® C450PLUS™
mm					
50	x 20	x 1.6	X	-	X
		2.0	X	-	X
		2.5	✓	-	X
50	x 25	x 1.6	✓	✓	✓
		2.0	✓	✓	✓
		2.5	✓	✓	✓
50	x 30	x 1.6	✓	-	X
		2.0	✓	-	X
		2.5	✓	-	X
65	x 35	x 2.0	✓	✓	✓
		2.5	✓	✓	✓
		3.0	✓	✓	✓
75	x 75	x 1.6	X	X	✓
		2.0	X	X	X
		2.5	✓	X	✓

✓	Cells are in-stock items
X	Cells are available ex-rolling only. Refer to Delivery Schedule
■	Both cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C350LO

AS/NZS 1163 - C450LO supplied as C450PLUS™ as marked

Standard lengths are 8 metres

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.
C450PLUS™ equivalent sections for painted and SupaGal® surface finish may be available ex-rolling subject to mill limitations

Pack Size (Lns)		All Listed Finishes
AD Listed Finishes	kg/m	
8.0m	12.0m	kg/m
96	-	1.63
96	-	1.99
72	-	2.42
72	-	2.83
96	-	1.75
96	-	2.15
72	-	2.62
60	-	3.07
54	-	2.93
54	-	3.60
45	-	4.25
35	-	5.35
65	-	2.38
65	-	2.93
48	-	3.60

RHS

OneSteel Australian Tube Mills



RHS - PAINTED, CLEAR, OILED, SUPAGAL® & DURAGAL®

Designation			\$/m				
d	b	t	Painted C450PLUS™	Clear* C450PLUS™	Oiled C450PLUS™	SupaGal® C450PLUS™	DuraGal® C450PLUS™
mm							
75	x 50	x 1.6	X	-	-	X	X
		2.0	✓	-	-	✓	✓
		2.5	✓	-	-	✓	✓
		3.0	✓	-	-	✓	✓
		4.0	✓	-	-	✓	✓
		5.0	✓	-	-	X	X
		6.0	✓	-	-	-	-
76	x 38	x 2.5	X	-	-	-	-
		3.0	X	-	-	X	-
		4.0	X	-	-	-	-
100	x 50	x 1.6	X	-	-	X	✓
		2.0	✓	-	-	✓	✓
		2.5	✓	-	-	✓	✓
		3.0	✓	-	-	✓	✓
		3.5	✓	-	-	X	X
		4.0	✓	-	-	✓	✓
		5.0	✓	-	-	✓	✓
		6.0	✓	-	-	-	X
102	x 76	x 3.5	✓	-	-	-	-
		5.0	✓	-	-	-	-
		6.0	✓	-	-	-	-
125	x 75	x 2.0	X	-	-	-	X
		2.5	X	-	-	X	X
		3.0	✓	-	-	✓	✓
		4.0	✓	-	-	✓	✓
		5.0	✓	-	-	✓	✓
		6.0	✓	-	-	-	X
127	x 51	x 3.5	X	-	-	-	-
		5.0	✓	-	-	-	-
		6.0	X	-	-	-	-
150	x 50	x 2.0	X	-	-	X	✓
		2.5	X	-	-	X	✓
		3.0	✓	-	-	✓	✓
		4.0	✓	-	-	✓	✓
		5.0	✓	-	-	✓	✓
		6.0	X	-	-	-	X
150	x 100	x 4.0	✓	-	-	-	-
		5.0	✓	-	-	-	-
		6.0	✓	-	-	-	-
		8.0	-	-	X	-	-
		9.0	-	-	✓	-	-
152	x 76	x 5.0	✓	-	-	-	-
		6.0	✓	-	-	-	-

Pack Size (Lns)		
All Listed Finishes	All Listed Finishes	All Listed Finishes
8.0m	12.0m	kg/m
54	54	3.01
42	42	3.72
42	-	4.58
35	24	5.42
28	24	6.92
24	-	8.35
20	16	9.67
20	-	4.15
20	-	4.90
16	-	6.23
32	32	3.64
32	32	4.50
32	24	5.56
32	24	6.60
24	18	7.53
24	18	8.49
18	15	10.3
15	12	12.0
12	-	9.06
9	-	12.5
6	-	14.7
24	-	6.07
24	20	7.53
20	15	8.96
15	15	11.6
15	12	14.2
12	6	16.7
12	-	9.07
8	-	12.5
8	-	14.7
21	21	6.07
24	-	7.53
21	15	8.96
15	15	11.6
15	9	14.2
15	9	16.7
12	9	14.8
12	8	18.2
9	6	21.4
-	4	27.7
6	4	30.6
6	6	16.5
6	6	19.4

RHS

- ✓ Cells are ex-stock items
- X Cells are available ex-rolling only. Refer to Delivery Schedule
- ✗ Rod cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C450LD supplied as C450PLUS™ as marked.

* Clear supplied as "RP" (Temporary Plus; Representative)

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

OneSteel Australian Tube Mills

RHS
C450PLUS™

RHS - PAINTED, CLEAR & OILED

Designation			\$/m		
d	b	t	Painted C450PLUS™	Clear* C450PLUS™	Oiled C450PLUS™
mm					
200 x 100 x 4.0			✓	-	-
	50		✓	-	-
	60		✓	-	-
	80		-	-	X
	90		-	-	✓
250 x 150 x 5.0			✓	-	-
	60		✓	-	-
	80		-	X	-
	90		-	✓	-
	130		-	-	X
	12.5		-	-	✓
	16.0		-	-	X
300 x 200 x 6.0			-	-	✓
	80		-	-	✓
	90		-	-	X
	100		-	-	✓
	12.5		-	-	✓
	16.0		-	-	X
350 x 250 x 8.0			-	-	✓
	100		-	-	✓
	12.5		-	-	✓
	16.0		-	-	X
400 x 200 x 8.0			-	-	X
	100		-	-	✓
	12.5		-	-	✓
	16.0		-	-	✓
400 x 300 x 8.0			-	-	X
	100		-	-	X
	12.5		-	-	✓
	16.0		-	-	✓

- ✓ Cells are ex-stock items
- X Cells are available ex-rolling only. Refer to Delivery Schedule
- X Bold cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C450.0 supplied as C450⁺ US⁺ as marked

* Clear supplied as TRP (Temporary Rust Preventative)

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible

Pack Size (Lns)		
All Listed Finishes	All Listed Finishes	
8.0m	12.0m	kg/m
8	6	17.9
8	6	22.1
8	4	26.2
-	4	33.9
-	4	37.7
6	4	29.9
4	4	35.6
4	2	46.5
4	2	51.8
-	2	57.0
-	2	69.4
-	1	85.5
-	2	45.0
-	2	59.1
-	2	65.9
-	2	72.7
-	1	89.0
-	1	111
-	2	71.6
-	1	88.4
-	1	109
-	1	136
-	2	71.6
-	1	88.4
-	1	109
-	1	136
-	1	84.2
-	1	104
-	1	128
-	1	161

RHS

Post/Building Products

C450PLUS™

POST - GAL140®

Designation			GAL140® C450PLUS™
d	b	t	
mm			
8.0 Metres			
90	x	90 x 2.0	X

MOQ	MOQ	Pack Size	GAL140®
Pack	Tonnes	Lns	kg/m
8	7.3	20	5.45

BUILDING PRODUCTS - GAL140®

Designation			GAL140® C450PLUS™
d	b	t	
mm			
8.0 Metres			
75	x	50 x 1.6	X
90	x	90 x 2.5	X
100	x	50 x 1.6	X
		2.0	X
150	x	50 x 2.0	X
		3.0	X

MOQ	MOQ	Pack Size	GAL140®
Pack	Tonnes	Lns	kg/m
4	5.0	54	3.01
12	13.0	20	6.74
8	7.5	32	3.64
5	5.9	32	4.50
8	8.2	21	6.07
5	7.0	21	8.96

<input checked="" type="checkbox"/>	Cells are ex-stock items
<input type="checkbox"/>	Cells are available ex-rolling only. Refer to Delivery Schedule
<input type="checkbox"/>	Roll coils are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C450.0 supplied as C450PLUS™

GAL 140® products are Hot Dip Gal to Section 3 AS/NZS 4792 with a minimum average zinc coating of 140g/m² on both internal and external surfaces

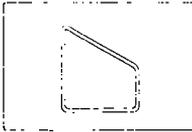
MOQ Pack quantities refer to standard length only

For non standard length, please calculate using the MOQ tonnes

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

Post/Building Products

OneSteel Australian Tube Mills



Silo Sections

C450PLUS™

SILO - PAINTED, SUPAGAL® & DURAGAL®

Designation				Painted C450PLUS™	SupaGal® C450PLUS™	DuraGal® C450PLUS™
d	b	t	mm			
12.0 Metres						
75	x 64	x 2.3	X	-	X	
		2.5	X	X		
		3.0	X	X		✓
		4.0	-	-		X

Pack Size	Painted SupaGal® DuraGal®
	Lns
36	4.43
36	4.75
36	5.56
24	7.21

✓	Cells are ex-stock items
X	Cells are available ex-rolling only. Refer to Delivery Schedule
X	Roll cells are ex-rolling and require MOQ. Refer to Delivery Schedule

Specifications: AS/NZS 1163 - C450.0 supplied as C450PLUS™ as marked

No standard lengths subject to enquiry

For MOQ items the actual delivery quantity will be to the nearest pack or part pack (whichever is greater) as close to being within the +/-10% volume tolerance as possible.

Silo Sections

OneSteel Australian Tube Mills

Notations & Abbreviations

Standard Surface Finishes	Description
Painted	Painted products are primer painted for protection during storage and handling.
SupaGal*	SupaGal* products are Hot Dip Gal to Section 3 of AS/NZS 4792 with a minimum average zinc coating of 100g/m ² on both the internal and external surfaces.
DuraGal*	DuraGal* products are Hot Dip Gal to AS/NZS 4792 ILG 100 with a minimum average zinc coating of 100g/m ² on the external surface.
GAL140*	GAL140* products are Hot Dip Gal to Section 3 AS/NZS 4792 with a minimum average zinc coating of 140g/m ² on both internal and external surfaces.
Hot Dip Gal	Hot Dip Gal pipe has a minimum galvanized coating mass of 300g/m ² both inside and out to AS/NZS 4792 Section 2.
Oiled	Oiled products have a light protective oil coating and comes standard on selected products.
Si-Tek™	Si-Tek™ is a silicon based polymer coating to protect against corrosion.
Clear	Clear products are coated with a clear coating.

Non-Standard Surface Finishes	Description
NDPC	No oil or paint coating and no end code. Available on request ex-rolling only and may be subject to MOQ.
LiteOil	Available on selected sections on request and may be subject to MOQ.

Grades	Description
C250L0	Cold-formed Grade C250 hollow section to AS 1163 with L0 properties
C350L0	Cold-formed Grade C350 hollow section to AS 1163 with L0 properties
C450L0	Cold-formed Grade C450 hollow section to AS 1163 with L0 properties
C450PLUS**	C450PLUS** properties which satisfies AS 1163 Grades C350L0 and C450L0

Order Quantity	Description
Minimum Order Quantity (MOQ)	Minimum order quantity is subject to change. Refer to our Sales Representative for current applicable minimum order quantity.
Non-Standard Lengths	For non-standard lengths please refer to your Sales Representative for availability and minimum order requirements. The quantity supplied in non-standard mill lengths can vary from -10 to +10% and may include part packs.

Abbreviation	Description
<i>b</i>	Width of section
CHS	Circular Hollow Section
<i>d</i>	Depth of section
DN	Nominal Size
<i>d_o</i>	Outside Diameter of a Circular Hollow Section (CHS)
H	Heavy
L	Light
Lns	Lengths per pack
M	Medium
PE	Plain Ends
RHS	Rectangular Hollow Section
SBE	Screwed Both Ends
SHS	Square Hollow Section
SOE	Screwed One End
SS	Screwed and Socketed
<i>t</i>	Thickness of section
XH	Extra Heavy
XL	Extra Light

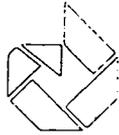
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Non-Confidential Attachment A-3.3

OneSteel ATM Product Guide

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Australian Tube Mills

Pipe & Tube Structural Products

Product Availability Guide

Effective From: 27 November 2009

Cancels previous Guide dated: 1 September 2009

Applicable For: Australia & New Zealand

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Product Availability Guide

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Australian Tube Mills

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Red Painted Pipe
CHS Grade: C250L0

MEDIUM - RED PAINTED
PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS AND SCREWED & SOCKETED

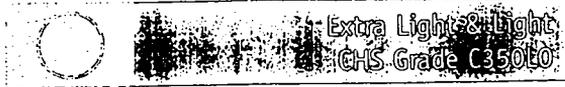
Designation ø _o / ø _i	Nominal Size DN	Painted PE	Painted SSE	Painted SSE	Painted SE	Paint Size	Painted PE, SSE & SE	Painted SE
		6.5 Metres				Line	kg/m	
26.8 x 2.6	20 SA	✓				127	1.56	
32.7 x 3.2	25 SA	✓			X	91	2.41	
47.4 x 3.2	32 SA	✓	✓		X	61	3.10	3.14
48.3 x 3.2	40 SA	✓	✓		X	81	3.37	3.61
60.3 x 3.6	50 SA	✓	✓		X	37	3.03	3.10
76.1 x 3.6	65 SA	✓			X	37	6.43	
86.1 x 4.0	80 SA	✓				19	8.37	
101.6 x 4.0	90 SA	X				19	9.63	
114.3 x 4.5	100 SA	✓			X	19	12.2	12.4
139.7 x 5.0	125 SA	X			X	13	18.6	17.0
165.1 x 5.0	150 SA	✓	X	X	X	10	19.7	20.2

✓ Cells are in stock items.
X Cells are available ex-works only. Refer to Delivery Schedule.
Z Best cells are ex-works and require MOQ. Refer to Delivery Schedule.
Sales Location: Our Sales are AS1074 and AS1183 C250L0.

For MOQ items the actual delivery quantity will be to the nearest pack or cart pack whichever is greater as close to being within the +/-10% volume tolerance as possible.

Red Painted Pipe

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EXTRA LIGHT - CLEAR, HOT DIP GAL, SUPP GAL* & DURAGAL* - PLAIN ENDS

Designation # x l mm	Nominal Size DN	Clear	Hot Dip Gal	SuppGal*	Duragal*	Clear		Hot Dip Gal
						Peak Size	Impedance	
6.5 Meters						LWS		Light
26.8 x 2.0	26.8	X	X	X	X	127	123	1.28
33.7 x 2.0	33.7	X	X	X	X	91	1.56	1.62
42.4 x 2.0	42.4	X	X	X	X	61	1.99	2.02
48.3 x 2.3	48.3	X	X	X	X	61	2.61	2.70
60.3 x 2.3	60.3	X	X	X	X	37	3.29	3.40
76.1 x 2.3	76.1	X	X	X	X	37	4.19	4.33
88.9 x 2.6	88.9	X	X	X	X	19	5.53	5.70
101.6 x 2.6	101.6	X	X	X	X	19	6.77	6.98
114.3 x 3.2	114.3	X	X	X	X	13	10.1	10.4
138.7 x 3.5	138.7	X	X	X	X	10	17.0	17.5

LIGHT - CLEAR & HOT DIP GAL - PLAIN ENDS

Designation # x l mm	Nominal Size DN	Clear	Hot Dip Gal	Clear		Hot Dip Gal		
				Peak Size	Impedance			
6.5 Meters						LWS		Light
26.8 x 2.3	26.8	X	X	127	1.40	1.44		
33.7 x 2.6	33.7	X	X	61	1.95	2.05		
42.4 x 2.6	42.4	X	X	61	2.55	2.63		
48.3 x 2.9	48.3	X	X	37	3.25	3.33		
60.3 x 2.9	60.3	X	X	37	4.11	4.21		
76.1 x 3.2	76.1	X	X	37	5.75	5.89		
88.9 x 3.2	88.9	X	X	19	6.76	6.92		
101.6 x 3.2	101.6	X	X	19	7.77	7.95		
114.3 x 3.6	114.3	X	X	13	9.83	10.0		
138.7 x 3.5	138.7	X	X	10	17.0	17.5		

EXTRA LIGHT & LIGHT - CLEAR & HOT DIP GAL - SWAGED ONE END, SWAGED BOTH ENDS

Designation # x l mm	Nominal Size DN	Clear	Hot Dip Gal	Hot Dip Gal	Clear		Hot Dip Gal	
					SWDE	SWBE		
6.5 Meters						LWS		Light
26.8 x 2.0	26.8	X	X	X	127	1.23	1.28	
33.7 x 2.0	33.7	X	X	X	91	1.56	1.62	
42.4 x 2.0	42.4	X	X	X	61	1.99	2.02	
48.3 x 2.3	48.3	X	X	X	61	2.61	2.70	
60.3 x 2.3	60.3	X	X	X	37	3.29	3.40	
76.1 x 2.3	76.1	X	X	X	37	4.19	4.33	
88.9 x 2.6	88.9	X	X	X	19	5.53	5.70	
101.6 x 2.6	101.6	X	X	X	19	6.77	6.98	
114.3 x 3.2	114.3	X	X	X	13	10.1	10.4	
138.7 x 3.5	138.7	X	X	X	10	17.0	17.5	

* Cells are test tube items
 X Cells are available in rolling only. Refer to Delivery Schedule
 R Cells are available in rolling and require a MOC. Refer to Delivery Schedule
 Specifications: AS 1163 C350.LC Hot Dip Gal - AS 4684.190 HOC 300
 For MOC terms the actual delivery quantity will be to the nearest inch or ten each whichever is greater all close to being within the +/-10% volume tolerance as possible

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MEDIUM - CLEAR PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation A ₁ / mm	Nominal Size DN	Clear PE	Clear SSE	Clear SSE	Clear SS	Pack Size	Clear		
							PE, SSE & SSE	Clear SS	
							6.5 Microns		
21.3 x 2.6	15 M	✓				217	1.21		
26.9 x 2.6	20 M	✓				127	1.26	1.57	
33.7 x 3.2	25 M	✓				91	2.61	2.44	
42.4 x 3.2	32 M	✓				61	3.10	3.14	
48.3 x 3.2	40 M	✓				51	3.32	3.61	
60.3 x 3.6	50 M	✓				37	5.03	5.10	
76.1 x 3.6	65 M	✓				37	6.43	6.53	
88.9 x 4.0	80 M	✓				19	8.37	8.52	
101.6 x 4.0	90 M	✓				19	9.63		
114.3 x 4.5	100 M	✓				19	12.2	12.4	
127 x 5.0	125 M	✓				13	16.8	17.0	
165.1 x 5.0	150 M	✓				10	19.7	20.2	

Medium Plain End

MEDIUM - HOT DIP GAL PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation A ₁ / mm	Nominal Size DN	Hot Dip Gal			Pack Size	Hot Dip Gal		
		PE	SSE	SS		PE, SSE & SSE	Hot Dip Gal SS	
							6.5 Microns	
21.3 x 2.6	15 M	✓			217	1.24		
26.9 x 2.6	20 M	✓			127	1.60	1.82	
33.7 x 3.2	25 M	✓			91	2.47	2.50	
42.4 x 3.2	32 M	✓			61	3.18	3.21	
48.3 x 3.2	40 M	✓			61	3.63	3.76	
60.3 x 3.6	50 M	✓			37	5.14	5.21	
76.1 x 3.6	65 M	✓			37	6.56	6.67	
88.9 x 4.0	80 M	✓			19	8.53	8.68	
101.6 x 4.0	90 M	✓			19	9.81		
114.3 x 4.5	100 M	✓			19	12.4	12.6	
127 x 5.0	125 M	✓			13	16.9	17.2	
165.1 x 5.0	150 M	✓			10	20.0	20.5	

Medium Hot Dip Gal

✓ Cells are in stock items
 X Cells are available on order only. Refer to Delivery Schedule
 I Best cells are available and require HVOO. Refer to Delivery Schedule
 Specifications: Dual Socket - AS1024 and AS1183 CTSOLD - Hot Dip Gal: AS4254/76 HCC 300
 *Dr 15 M supplied as AT(VO)B in stock and Hot Dip Gal finish only.

For HVOO cells the actual delivery quantity will be to the nearest 0.1% of the actual inventory & greater in case of being within the ±10% volume tolerance as possible

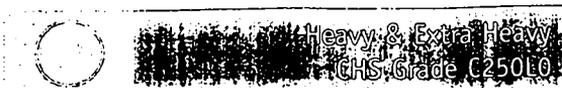
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HEAVY - CLEAR PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation # / mm	Nominal Size Dn	Clear PE	Clear SSE	Clear SSE	Clear SE	Pack Size	Clear	
							PE, SSE & SSE	Clear SE
6.5 Metric								
26.9 x 3.2	20 H	X	X	X	X	127	1.87	1.89
33.7 x 4.0	25 H	X	X	X	X	81	3.00	3.06
42.4 x 4.0	32 H	X	X	X	X	61	3.87	3.91
48.3 x 4.0	40 H	X	X	X	X	61	4.46	4.51
60.3 x 4.5	50 H	X	X	X	X	37	6.19	6.26
76.1 x 4.5	65 H	X	X	X	X	17	7.93	8.04
88.9 x 5.0	80 H	X	X	X	X	19	10.3	10.5
101.6 x 5.0	90 H	X	X	X	X	19	11.9	12.1
114.3 x 5.4	100 H	X	X	X	X	19	14.5	14.7
139.7 x 5.4	125 H	X	X	X	X	13	17.9	18.2
165.1 x 5.4	150 H	X	X	X	X	10	21.3	21.7

Standard Painted

HEAVY - HOT DIP GAL PLAIN ENDS, SCREWED ONE END, SCREWED BOTH ENDS & SCREWED & SOCKETED

Designation # / mm	Nominal Size Dn	Hot Dip Gal PE	Hot Dip Gal SSE	Hot Dip Gal SSE	Hot Dip Gal SE	Pack Size	Hot Dip Gal	
							PE, SSE & SSE	Hot Dip Gal SE
6.5 Metric								
26.9 x 3.2	20 H	X	X	X	X	127	1.92	1.93
33.7 x 4.0	25 H	X	X	X	X	81	3.00	3.02
42.4 x 4.0	32 H	X	X	X	X	61	3.87	3.91
48.3 x 4.0	40 H	X	X	X	X	61	4.46	4.51
60.3 x 4.5	50 H	X	X	X	X	37	6.20	6.27
76.1 x 4.5	65 H	X	X	X	X	17	8.02	8.18
88.9 x 5.0	80 H	X	X	X	X	19	10.5	10.7
101.6 x 5.0	90 H	X	X	X	X	19	12.1	12.3
114.3 x 5.4	100 H	X	X	X	X	19	14.7	14.9
139.7 x 5.4	125 H	X	X	X	X	13	18.1	18.3
165.1 x 5.4	150 H	X	X	X	X	10	21.6	22.0

Heavy Hot Dip Gal

EXTRA HEAVY - CLEAR PLAIN ENDS*

Designation # / mm	Nominal Size Dn	Clear	Pack Size	Clear	
				Lns	Wght
6.5 Metric					
26.9 x 4.0	20 H	X	127	2.26	
48.3 x 5.4	40 H	X	61	5.71	
60.3 x 5.4	50 H	X	37	7.31	
76.1 x 5.9	65 H	X	17	10.7	
88.9 x 5.9	80 H	X	19	12.1	

Extra Heavy Painted

* Cells are in exact mm
 X Cells are available in odding only Refer to Delivery Schedule
 X Both cells are in odding and require MOQ Refer to Delivery Schedule
 Specifications Dual Specification AS117M and AS118 (C250.0) and Dn Gal: AS245790 HOG 300
 * Cells Heavy Plain Ends is available to AS118 (C250.0) only.
 No MOQ apply the actual minimum quantity will be the nearest pack or cart pack whichever is greater as close to being within the +/-10% volume tolerance as possible

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Large Structural
CHS Grade C350L01

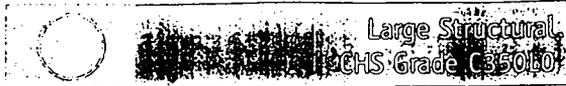
LARGE STRUCTURAL - CLEAR PLAIN ENDS

Designation	Clear	Pack	Clear & Label	
			Lbs	Sqms
168 3	12.0 Heavy	1	16.2	
	4.0	1	19.4	
	4.8	1	20.1	
	6.0	1	24.0	
	6.4	1	25.8	
219 1	7.1	1	29.2	
	8.0	1	31.6	
	10.0	1	35.0	
	4.8	1	25.4	
	5.0	1	26.4	
273 1	6.0	1	31.5	
	6.4	1	33.8	
	8.0	1	41.5	
	8.7	1	42.8	
	10.0	1	51.4	
273 1	12.5	1	63.7	
	4.8	1	31.8	
	5.0	1	33.1	
	6.0	1	39.5	
	6.4	1	42.1	
325 8	9.0	1	52.3	
	9.5	1	60.5	
	10.0	1	64.9	
	12.5	1	82.2	
	6.0	1	47.0	
325 8	6.4	1	50.1	
	8.0	1	61.3	
	9.0	1	71.4	
	12.5	1	96.0	
	12.7	1	97.5	
355 6	6.4	1	55.1	
	8.0	1	68.6	
	9.5	1	81.1	
	10.0	1	85.2	
	12.5	1	106	
355 6	12.7	1	107	
	16.0	1	134	

Large Structural

✓ Cells are in stock items
 1 Cells are in stock in rolling only. Refer to Delivery Schedule
 2 Bolt caps are in stock and require MCO. Refer to Delivery Schedule
 Specifications AS 1163 C250.C
 Availability: Sales subject to enquiry including HOPC, PHO or on plant loading and no end cost
 For MCO items, the actual delivery quantity will be to the nearest cent or part pack whichever is greater as close to being within the +/- 10% volume tolerance as possible

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LARGE STRUCTURAL - CLEAR PLAIN ENDS

Description	D _o	t	Class	Pact Size		Clear & Litens
				Len	Light	
17.0 Metres						
406	6.4	8	I	1	63.1	
	9.0	8	I	1	78.6	
	9.5	8	I	1	83.0	
	10.0	8	I	1	87.4	
	12.5	8	I	1	121	
	12.7	8	I	1	123	
	14.0	8	I	1	134	
457	6.4	8	I	1	71	
	9.5	8	I	1	105	
	10.0	8	I	1	110	
	12.5	8	I	1	137	
	12.7	8	I	1	139	
	18.0	8	I	1	174	
508	6.4	8	II	1	79.2	
	9.5	8	II	1	117	
	10.0	8	II	1	123	
	12.5	8	II	1	153	
	12.7	8	II	1	155	
	14.0	8	II	1	164	

Large Structural

- ✓ Call to AS 1328 1870
- ⊗ Call to nearest existing only Refer to Delivery Schedule
- ⊗ Bolt acts are in-situ and require NCO Refer to Delivery Schedule

Specifications AS 1328 C350.0

Availability: Sizes subject to enquiry including NCO's for or plain coating and no end coats

For NCO come the actual delivery quantity will be to the nearest back or front pack whichever is greater as close to being within the 10% tolerance limit as possible

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SHS - PAINTED, SUPAGAL® & DURAGAL®

Designation # x #	Painted CSABE	Painted DuralGal®	Supagal® CSABE	Supagal® DuralGal®	DuralGal® DuralGal®	Face Size (LxH)		All Listed Products	All Listed Products
						6.5m	8.0m		
20 x 20	16								0.812
	20								1.00
	25								1.12
	20								1.38
	25								1.64
30 x 30	16								1.89
	20								2.28
	25								2.67
	30								3.06
	40								4.09
35 x 35	16								2.83
	20								3.30
	25								3.77
	30								4.24
	40								5.25
40 x 40	16								3.59
	20								4.09
	25								4.59
	30								5.09
	40								6.39
50 x 50	16								5.39
	20								6.39
	25								7.39
	30								8.39
	40								10.39
65 x 65	16								10.39
	20								12.39
	25								14.39
	30								16.39
	40								20.39
80 x 80	16								20.39
	20								24.39
	25								28.39
	30								32.39
	40								40.39

✓ Cells are 6-1200 series
 ✗ Cells are 6-1200 series only. Refer to Delivery Schedule
 ✗ Cells are 6-1200 series only. Refer to Delivery Schedule
 ✗ Cells are 6-1200 series only. Refer to Delivery Schedule
 50x50 is supplied as LxH
 * These products are coated with 50 µm dual coat/one coating and are not primer coated
 * Also available in standard 12m and 18m lengths
 For MCO terms the actual delivery quantity will be to the nearest 100kg or 1000kg whichever is greater and is close to being within the +/- 10% tolerance at delivery

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SHS - PAINTED, SUPAGAL® & DURAGAL®

Designation # x # x # mm	Painted CS50.8	Painted Dual Grade*	SuperCap® CS50.8	SuperCap® DualGrade*	DuraCap® DualGrade*	Peak Size (mm)		All Listed Planches	All Listed Planches
						8 Dim	12 Dim		
75 x 75 x 20	/	/	/	/	/	36	30	250	250
75	/	/	/	/	/	30	20	156	156
75	/	/	/	/	/	30	25	160	160
75	/	/	/	/	/	25	20	153	153
75	/	/	/	/	/	25	15	89	89
75	/	/	/	/	/	20	15	103	103
75	/	/	/	/	/	16		120	120
89 x 89 x 20	/	/	/	/	/	20	20	258	258
89	/	/	/	/	/	20	16	90	90
89	/	/	/	/	/	16	12	125	125
89	/	/	/	/	/	12	9	147	147
89	/	/	/	/	/	20		545	545
100 x 100 x 20	/	/	/	/	/	20	20	607	607
100	/	/	/	/	/	20		753	753
100	/	/	/	/	/	20	16	886	886
100	/	/	/	/	/	16	12	116	116
100	/	/	/	/	/	12	9	142	142
100	/	/	/	/	/	12	9	167	167
125 x 125 x 40	/	/	/	/	/	12	9	188	188
125	/	/	/	/	/	12	9	182	182
125	/	/	/	/	/	9		214	214
125	/	/	/	/	/	9	6	211	211
150 x 150 x 30	/	/	/	/	/	6	6	262	262

/ Cells are in stock items
 x Cells are on stock in making order - Refer to Delivery Schedule
 # Steel cells are in making order - Refer to Delivery Schedule
 Specifications: All sections to AS 1103 CS50.8 or AS 1113 DualGrade® CS50.8/C450.8 as marked
 Standard lengths are 9 metres
 For ACO roof's the actual delivery quantity will be to the nearest part or unit each half-metre, if greater as close to being within the 10% volume tolerance as possible

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SHS - CLEAR, LITEOL, & PAINTED

Designation # x # mm	Clear*	LiteOL	Painted	Pact Size (mm)		All Listed Flanges	All Listed Flanges
				6.0m	12.0m		
100 x 100 x 8.0		X				6	21.4
100 x 100 x 9.0		X				6	23.5
100 x 100 x 10.0		X				6	25.6
125 x 125 x 8.0		X				4	27.7
125 x 125 x 9.0		X				4	30.8
125 x 125 x 10.0		X				4	33.9
150 x 150 x 8.0		X				4	37.0
150 x 150 x 9.0		X				2	41.3
150 x 150 x 10.0		X				2	45.6
200 x 200 x 5.0			X			6	29.9
200 x 200 x 6.0			X			4	35.8
200 x 200 x 8.0		X				2	46.5
200 x 200 x 9.0		X				2	51.9
200 x 200 x 10.0		X				2	57.3
250 x 250 x 8.0		X				2	69.9
250 x 250 x 10.0		X				2	85.5
250 x 250 x 12.0		X				2	101.1
250 x 250 x 14.0		X				2	116.7
300 x 300 x 8.0		X				2	132.3
300 x 300 x 10.0		X				2	147.9
300 x 300 x 12.0		X				1	163.5
300 x 300 x 14.0		X				1	179.1
350 x 350 x 8.0		X				1	194.7
350 x 350 x 10.0		X				1	210.3
350 x 350 x 12.0		X				1	225.9
350 x 350 x 14.0		X				1	241.5
400 x 400 x 10.0		X				1	257.1
400 x 400 x 12.0		X				1	272.7
400 x 400 x 14.0		X				1	288.3

✓ Cells are in stock items
 ✗ Cells are available on-order only. Refer to Delivery Schedule
 ✗ Cells are available on-order and require MCO. Refer to Delivery Schedule
 Specifications: All sections to AS 1183 C350.0 or AS 1183 DualGrade® C350L0/C450.0 as marked
 Standard lengths are 12 meters
 * Symptom full penetration
 For MCO users the actual delivery quantity will be to the nearest inch or cent each whichever is greater as close to being within the +10% tolerance size price as possible.

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RHS - PAINTED, SUPAGAL® & DURAGAL®

Designation #	B	Painted C350L0	Painted DualGrade®	Supagal® C350L0	Supagal® DualGrade®	Duragal® DualGrade®	Pick Size List		
							All Listed Pick Size	12 mm	19mm
50	20	116	X				96		163
		70	X				96		99
		25	X				72		242
		30	X				72		283
50	25	116	X				96		175
		20	X				96		215
		25	X				72		262
		30	X				60		301
85	35	720	X				54		293
		25	X				54		360
		30	X				45		425
		40	X				35		535
75	25	116	X				65		238
		20	X				65		293
		25	X				48		360
75	30	116	X				54	54	301
		20	X				42	42	372
		25	X				42		456
		30	X				35	24	542
		40	X				28	24	628
		50	X				24		825
		60	X				20	16	967
76	38	725	X				20		415
		30	X				20		490
		40	X				18		623
100	50	116	X				32	32	364
		25	X				32	24	458
		30	X				32	24	556
		35	X				32	24	660
		40	X				24	18	753
		50	X				18	15	849
		60	X				15	12	957

✓ Cells are empty cells
 X Cells are outside existing line. Refer to Delivery Schedule
 I Cells are in existing and issue a MOO Refer to Delivery Schedule
 Special cases: All AS 1183 C350L0 or AS 1183 DualGrade® C350L0/C450L0 as marked
 Standard lengths are 3 metres
 For MOO items the total delivery quantity will be to the nearest 20% or 25% (whichever is greater) as close to being within the +/- 10% volume tolerance as possible

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RHS - PAINTED, SUPAGAL® & DURAGAL®

Occupation A B I	Painted C350LO	Painted DualGrade	Supagal® C350LO	Supagal® DualGrade®	Duragal® DualGrade®	Pack Size (m)		All Lines Passes
						All Lines Flashes	kg/m	
100 x 76 x 25	✓	✓				12	12	6.67
	✓	✓				6	6	12.3
	✓	✓				6	6	14.7
125 x 75 x 20	✓	✓				24	20	6.07
	✓	✓				24	20	7.53
	✓	✓				20	15	8.96
150 x 75 x 20	✓	✓				15	15	11.6
	✓	✓				12	12	14.2
	✓	✓				12	6	16.7
177 x 51 x 33	✓	✓				12	6	9.07
	✓	✓				6	6	12.5
	✓	✓				6	6	14.7
150 x 50 x 7.6	✓	✓				21	21	6.07
	✓	✓				21	15	7.53
	✓	✓				15	15	8.96
150 x 50 x 10	✓	✓				15	15	11.6
	✓	✓				15	9	14.2
	✓	✓				15	9	16.7
150 x 100 x 4.0	✓	✓				12	9	14.8
	✓	✓				9	6	18.3
	✓	✓				6	6	21.4
152 x 16 x 5.0	✓	✓				6	6	16.4
	✓	✓				6	6	19.4
	✓	✓				6	6	17.9
200 x 100 x 4.0	✓	✓				8	6	22.1
	✓	✓				8	6	27.1
	✓	✓				6	6	29.2

✓ Cells are on stock items
 X Cells are available on-order only. Refer to Delivery Schedule
 E Both cells are on-order and require MCO Refer to Delivery Schedule
 Specifications: All AS 1183 C350LO or AS 1183 DualGrade® C350LO/C450LO as marked
 Standard lengths are 6 metres

For MCO name the actual delivery quantity and be as the nearest past or just past whichever is present or close to being within the ±10% volume tolerance as possible

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RHS - CLEAR, LITEOIL & PAINTED

Designation	Class	Litres	Painted	Pack Size (Litres)		All Litres
				8 On	12 On	
150 x 100 x 8.0		3.0				27.7
		10.0				30.6
		17.5				33.4
200 x 100 x 8.0		3.0				33.9
		10.0				37.7
		17.5				41.3
250 x 150 x 8.0		3.0				49.9
		10.0				55.9
		17.5				64.5
300 x 200 x 8.0		3.0				51.8
		10.0				57.0
		17.5				69.4
		16.0				85.5
300 x 200 x 6.0		3.0				43.0
		10.0				50.1
		17.5				72.7
		16.0				89.0
350 x 250 x 8.0		3.0				111
		10.0				71.6
		17.5				96.4
400 x 200 x 8.0		3.0				109
		10.0				136
		17.5				161.8
		16.0				88.4
		12.5				109
		18.0				136
400 x 300 x 8.0		3.0				84.2
		10.0				104
		17.5				128
		16.0				161

Cells are in-stock items
 Cells are available ex-mill only. Refer to Delivery Schedule
 Cells are on-order and require MCO. Refer to Delivery Schedule
 Special orders: All AS 1180 CE250.0 or AS 1180 DualGrade CE250.0/350.0 as marked
 Standard lengths are 12 metres
 * Temporary full price items
 For MCO terms the actual delivery quantity will be to the nearest 200 or 400 pack whichever is greater as close to being within the +/- 10% volume tolerance as possible

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POST - GAL140®

Designation	GAL140®
#	DualGrade®
mm	
8.0 Metres	
90	90 x 70
	I

MOQ	MOQ	Pack Size	GAL140®
Pack	Tonnes	Ltrs	kg/m
8	7.3	20	3.45

BUILDING PRODUCTS - GAL140®

Designation	GAL140®
#	DualGrade®
mm	
8.0 Metres	
75	50 x 116
	I
90	90 x 2.5
	I
100	50 x 116
	I
	70
	I
150	50 x 270
	I
	30
	I

MOQ	MOQ	Pack Size	GAL140®
Pack	Tonnes	Ltrs	kg/m
4	5.0	34	3.01
12	13.0	20	6.74
8	7.3	32	3.64
5	5.9	32	4.50
8	8.2	21	4.07
5	7.0	21	4.06

Post/Building Products

Cells are in each name
 Cells are available as rolling only. Refer to Delivery Schedule
 Both cells are as rolling and require MOQ. Refer to Delivery Schedule
 Specifications: AS 1183 DualGrade® CS5010/CS4510
 GAL140® products are Hot Dip Gal to Section 3 AS4254-1992 with a minimum average zinc coating of 140g/m² on both normal and external surfaces.
 MOQ Tolerances apply to standard length only.
 For non standard length, please calculate using the MOQ tonnes.
 For MOQ tonnes the actual delivery quantity will be to the nearest pack or part pack to achieve a quantity as close to being within the +10% tolerance as possible.

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Rail/Silo Sections
Grade C350L0 & Dual Grade C350L0/C450L0

UNIRAIL - SUPAGAL®

Designation		Supagal®
#	W	CS50L8
8.1 Metres		
50	42 x 20	I

Pack Size		Supagal®
Ln	Sp	7.88
36	12m	

STOCKRAIL - PAINTED, SUPAGAL® & DURAGAL®

Designation		Painted	Supagal®	Duragal®
#	W	CS50L8	CS50L8	DualGrade®
8.1 Metres				
53	35 x 18	I	I	I
97	40 x 20	I	I	I
115	42 x 25	I	I	I

Pack Size		Painted	Supagal®	Duragal®
Ln	Sp	1.77	3.65	5.30
48	12m			
21	12m			
21	12m			

YARDRAIL - DURAGAL®

Designation		Duragal®
#	W	DualGrade®
8.0 Metres		
120	48 x 20	I

Pack Size		Duragal®
Ln	Sp	5.53
18	12m	

SIL0 - PAINTED, SUPAGAL® & DURAGAL®

Designation		Painted	Supagal®	Duragal®
#	W	DualGrade®	CS50L8	DualGrade®
8.0 Metres				
75	64 x 23	I	I	I
	25	I	I	I
	30	I	I	I
	40	I	I	I

Pack Size		Painted	Supagal®	Duragal®
Ln	Sp	4.33	4.75	5.58
36	12m			
36	12m			
24	12m			

- ✓ Cells are in stock items
- ✗ Cells are available on order only. Refer to Delivery Schedule
- ✗ Base cells are on order and require MCO. Refer to Delivery Schedule

Search for: At AS 1183 CS50L8 or At 1183 DualGrade® CS50L8/C450L0 as shown

No specified lengths subject to enquiry

For MCO items the actual delivery quantity will be to the nearest 100m in both directions & provided to allow within the +/- 10% volume tolerance as specified

Rail/Silo Sections

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Notations & Abbreviations

Standard Surface Finishes	Description
Primer	Primer products are primer painted for protection during storage and handling.
SandGrip	SandGrip products are Hot Dip Gal to Section 3 of AS/NZS 4793 with a minimum average zinc coating of 100g/m ² on both the internal and external surfaces.
Duralife	Duralife products are Hot Dip Gal to AS/NZS 4792 & 100 with a minimum average zinc coating of 100g/m ² on the external surface.
Gal 1499	Gal 1499 products are Hot Dip Gal to Section 3 of AS/NZS 4793 with a minimum average zinc coating of 140g/m ² on both internal and external surfaces.
Hot Dip Gal	Hot Dip Gal pipe has a minimum guaranteed coating mass of 300g/m ² both inside and out to AS/NZS 4793 Section 2.
LifeOil	LifeOil products have a light protective oil coating and conform standards on selected products.
5-Flu	5-Flu™ is a silicone based polythene coating to protect against corrosion.
Clear	Clear products are coated with a clear, clear coating.

Non-Standard Surface Finishes	Description
NOPC	No oil or paint coating and no zinc coat. Available on request including only and may be subject to MOQ.
LifeOil	Available on selected sections on request and may be subject to MOQ.

Grades	Description
C350.0	Cold formed Grade C350 hollow section to AS 1163 with 10 properties
C350.0	Cold formed Grade C350 hollow section to AS 1163 with 10 properties
C450.0	Cold formed Grade C450 hollow section to AS 1163 with 10 properties
DualGrade™ C350.0/C450.0	DualGrade™ properties which includes AS 1163 Grades C350.0 and C450.0

Order Quantity	Description
Minimum Order Quantity (MOQ)	Minimum order quantity is subject to change. Refer to our Sales Representative for current applicable minimum order quantity.

Non-Standard Length

For non-standard lengths please refer to your Sales Representative for availability and minimum order measurements. The quantity ordered of non-standard cut lengths can vary from -10 to +10% and may include part packs.

Abbreviation	Description
h	Height of section
CHS	Circular Hollow Section
d	Depth of section
DN	Nominal Size
ø	Outside Diameter of a Circular hollow Section (CHS)
H	Height
L	Length
L _{net}	Length net mass
H	Height
PE	Plain Ends
RHS	Rectangular Hollow Section
SBE	Screwed Bolt Ends
SHS	Square Hollow Section
SSE	Screwed End Ends
SS	Screwed and Soldered
t	Thickness of section
DE	Extra Heavy
EL	Extra Light

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