

HABAS'S COMMENTS ON THE PROPOSED PRODUCT MATCHING CRITERIA IN THE ISSUES LIST

I. Yield Strength

A. Yield Strength Based Comparison Is Not Necessary

The Australian Anti-Dumping Commission indicated in the Issues Report that “{the} Commission is of the view that the most closely resembling goods to the goods under consideration are rebar products with a minimum yield strength of 500 MPa, 300MPa and 250MPa.”

Habas submits that, while the yield strength is a product characteristic that is specified in sales transactions, for the foregoing reasons, products with different yield strength still are comparable for dumping margin calculation purposes.

1. Desired Yield Strength Values Can Easily Be Obtained Via Quenching Process

Habas and most of world's producers can obtain different yield strengths at no significant cost difference via a method commonly known as “Quenching”. Quenching is a heat treatment process widely applied for the production of high-quality rebar. Rebar produced by this method gained global acceptance by civil engineers, especially since it met their requirements for seismic zones, i.e. minimum YS of 500 MPa with adequate ductility.¹

Quenching is the water cooling process of rebar after the last rolling stage when the rebar is in final shape and size. By simply spraying cold water on still hot rebar, the surface layer of

¹

<http://mobile.wiredspace.wits.ac.za/bitstream/handle/10539/5970/MSc%20Research%20Final%20Report%20C%20Rajkumar.pdf?sequence=1>

the bar is quenched into the hard, but brittle, martensitic phase up to a certain depth below the skin.² Since quenching is a controlled cooling process, most commercially sold yield strength types can easily be obtained at no significant additional cost. This is further supported by the fact that generally no pricing difference exists for rebar with different yield strengths as discussed in the section below.

2. Neither Habas nor Petitioners Gives Consideration To Yield Strength in Pricing

As a result of the relatively simple method of obtaining different yield strength, except in rare cases, the industry practice is not to request different prices based on yield strength. Habas refers to Invoice numbers 048136 and 048137 which shows that Habas sold Grade 250N and Grade 500N products at the same price in the same invoice. Please see **Exhibit-1** for referred invoices.

To the best of Habas's knowledge, Petitioner OneSteel also does not differentiate product pricing based on yield strength. Habas submits an example price list issued by One Steel in **Exhibit-2** where no different price has been specified for Grade 250N. Habas invites the ADC to request from the Petitioner whether pricing difference is requested for different yield strengths.

²

<http://mobile.wiredspace.wits.ac.za/bitstream/handle/10539/5970/MSc%20Research%20Final%20Report%20C%20Rajkumar.pdf?sequence=1>

3. The Actual Achieved Yield Strength for [CONFIDENTIAL]

Habas mostly sells [CONFIDENTIAL]

] . In Habas's production process, [

CONFIDENTIAL

] . In practice therefore, even though

the MYS as provided in the specification are different, [

CONFIDENTIAL

] . Please see Exhibit-3 attached for quality certificates

of sample [] .

B. If the Commission Insists On Considering Yield Strength in the Product Comparison Criteria, Two Categories of Yield Strength Should Be Defined as Described Below

As explained above, Habas proposes not considering yield strength as one of the product comparison criteria due to production, cost and price indifference. However, if commission insists on such matter, incorrectly according to Habas, we propose to specify two categories of yield strength as follows:

1. $MYS \geq 400N/mm^2$

2. $MYS < 400N/mm^2$.

Habas' domestic sales mostly consist of [

CONFIDENTIAL

] . These products are perfectly interchangeable and do not

have significant physical differences.

On the other hand, Habas notes that in most world specifications rebar is categorized as regular yield strength rebar i.e. in the 400-500 MPA range such as (Turkish S420, AS/NZ 4671 500N) and low yield strength, such as AS/NZ 4671 GR 250N, ASTM Grade 40 (with MYS of 280 N/mm²) . Habas therefore believes, while not necessary, a classification of MYS as specified above is more appropriate rather than trying to find the same exact MYS value for product comparison purposes.

C. The Proposed Matching Criteria of Diameter (Within 1 mm) is Too Broad

As with MYS, Habas respectfully submits that a size based classification within 1mm is too broad and does not reflect the commercial or industrial practices in the rebar industry

1. The Pricing in Turkey Considers only Three Groups for Pricing of Rebar

Rebar sold in Turkish market is separated into three groups for pricing as follows:

1. 8mm,
2. 10mm and +
3. All sizes > 12mm.

Habas submits **Exhibit-4** for Turkish price lists announced daily from various producers and traders.

2. OneSteel Pricing is Same for All Diameter

Habas also notes that Petitioner One Steel does not differentiate its products' prices for different diameters which further supports our point that there is no significant physical difference between different sizes. Please see **Exhibit-2** for price list published by OneSteel showing that diameter size is not affecting selling price i.e. all sizes sold at the same price

We also note that, outside of Turkey and Australia, prices in the world steel market also follow the same principles that Turkish market and Australian One Steel apply while pricing rebar according to diameter size. Indian Jindal Steel's Delhi Price List shows that rebar prices are grouped as 6mm-8mm-10mm and +12mm. Please see **Exhibit-5** for price list provided by Jindal Steel India.

Habas therefore proposes either no diameter based classification is applied, or the size classification specify ranges as listed below i.e.

1. 8mm
2. Greater than 8mm, less than 12mm
3. 12mm and above

Habas thanks the Commission for the opportunity to comment on its proposed methodology. Habas requests that the Commission provide it with the Commissions comments on this submission prior to the publishing of the Statement of Essential Facts (SEF). Also if the Commission does not accept any part or all of this submission Habas request that the Commission provides Habas with its reasons for non-acceptance prior to the SEF being published.

Exhibit 1 – Habas Commercial Invoices for GR 250N

**CONTAINS CONFIDENTIAL INFORMATION
WHICH IS NOT AMENABLE TO PUBLIC SUMMARIZATION**

Exhibit 2 – OneSteel Price List



Recommended Price List

South Australia

Prices Effective From 1/06/2006

All Prices Exclude GST

Recommended Price List – 1/06/2006 South Australia

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(Not all products available in all locations)

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(Not all products available in all locations)

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(Ready to assemble)

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No Capping

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Terms and Conditions of Supply & Contract

Delivery Offer

Please note the following Delivery Offer, Lead-time and Services are to be read in conjunction with our Terms and Conditions.

OneSteel Marner places safety as our highest priority. Safe for you – Safe for us

First Drops

Yes – We can work with you to offer first drops (7:30am) where possible. If you would like to request an early delivery please ask your customer service representative at time of you place the order.

Vehicles

Deliveries will be made on either Semi Trailer, Tray Top or Hiab Crane truck at OneSteel Marner discretion and dependent on site access and conditions. Hiab cranes are for unloading from truck onto ground only. Under no circumstances will goods be loaded onto work decks.

Delivery To Site

All deliveries to site in the Adelaide area will incur a \$35 cartage charge. Delivery of goods is alongside your site, in one drop location only. For deliveries to a site outside the Metropolitan area, cartage charges will be quoted at time of order placement.

Entry to site must be safe, and the decision to safely enter will be at the driver's discretion. Upon customer request that a delivery vehicle drives on site, the customer shall be responsible for any damage to property and or vehicle. Unloading shall be the responsibility of the customer.

Delivery Hours

Standard delivery hours are between 7:30am and 4:00pm - Monday to Friday. Should deliveries be requested outside of these standard delivery hours, this can be arranged by our customer service representative at an extra charge. Standard waiting time is 45 minutes maximum. If unloading has not commenced within this time, then the vehicle will return to our factory and the delivery will be rescheduled at a fee of \$200, or waiting charge @ \$80/hr.

Return Of Goods (Pick-ups)

OneSteel Marner will pick up goods (in resaleable condition) from site at your request as quickly as transport availability allows. If the goods are being picked up due to a client's error, then a pick up fee of \$50 (minimum) or 5% of the invoiced order value (if greater than \$1,000), will apply.

Customer Containers

Because of our commitment to safety, OneSteel Marner insists that all containers or bins supplied by customers must be fit for the purpose and clearly show Safe Working Load (SWL) Ratings.

Order Lead-time

Reinforcing Mesh:	Delivery next day if order is for ex-stock product and is received by 11am the day prior to delivery.
Reinforcing Bar:	Delivery next day if order is for ex-stock product and is received by 11.am the day prior to delivery.
Processed Reinforcing Bar:	Ten working days leadtime is required for scheduling, production and delivery.

Supply of product is subject to OneSteel Reinforcing (ABN 22 004 148 289) trading as OneSteel Marner. Terms And Conditions of Contract of Supply dated as attached.
This price is not a stock list. Prices are subject to alteration without notice. Prices exclude GST.
500PLUS REIDBAR, 500PLUS REBAR, DECKMESH, TRUSSDEK, IRONBARK, TEMPCORE, BAMTEC, HANDIMESH, FIBRESTEEL, ONEMESH500,
HAUNCHMESH, ROMTECH, UTEMESH500, POOLSTEEL, STUDMESH, DRAMIX are all trademarks used exclusively by OneSteel.

Specification Other Products

Bundling

Reinforcing bar is bundled with a maximum weight of two tonne per bundle unless otherwise requested. Content of bar bundles is determined by OneSteel Marnar production personnel.

Tolerances

Reinforcing bar is cut and bent to tolerances as per AS4671 Steel Reinforcing Materials. Tolerances tighter than those specified in AS3600 are possible and will incur an additional charge. (Price on application).

Pre-Galvanised Wire

Products manufactured from Pre Galvanised wire as per AS4534 are electro-welded at the joints. Purchasers should assess suitability for end use applications. OneSteel Marnar representatives will be pleased to answer any questions you may have.

Cut Bent Mesh

Reinforcing Mesh can be cut and/or bent to suit your specific requirements. Prices and delivery leadtimes are available on application from your OneSteel Marnar Centre.

Mesh Made To Order

OneSteel Marnar can produce mesh to suit your particular application or requirements. For further details relating to prices, capability, minimum order quantities and delivery, contact your OneSteel Marnar Centre.

Pre-Fabrication

Pre-Fabrication of reinforcing steel is available. Pricing is determined based on your specific requirements and is available on request from your OneSteel Marnar Centre.

OneSteel Group Reinforcing Solutions

The OneSteel Group manufacture a number of other products and construction systems such as TRUSSDEK and ROMTECH.

Full details are available on request.

Accessories

A wide range of accessories are available from all the OneSteel Marnar Centres. Please refer to the following pages for further information.

Disclaimer

This information is provided as a service to those interested in steel reinforcement.

Since the information is provided for general guidance only, and in no way replaces the services of professional consultants on particular projects or subjects, no legal liability can be accepted by OneSteel for its use.

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Services Available

Mechanical splicing

Mechanical splicing services (threading and couplers) are available on request and are charged on a per unit basis.

Hot Dipped Galvanised

OneSteel Marnar will provide a high quality galvanising service that meets the Australian Standard AS4534.

Customer Pick-Ups

Your OneSteel Marnar Centre offers a fast and efficient pick-up service, which can save you time and money.

Scheduling

OneSteel Marnar offers a scheduling service providing a detailed take off from engineering and architectural drawings. For further details, contact your local service centre.

Estimating

OneSteel Marnar offers an accurate estimating service to assist you with your next project. For further details, contact your local service centre

Saw Cutting

OneSteel Marnar offers an accurate and quality saw cutting service at \$1.00 per Cut.

Special Bundling Sizes

Special bundling sizes are available - please call your OneSteel Marnar Service Centre for availability and pricing details.

Supply & Fix

For selective projects, OneSteel Marnar is able to offer Lump Sum or Supply, Fix rates.

Please Note

To improve our delivery service our Sales Staff would appreciate that you:

When Ordering

- * Quote job reference number when placing an order.
- * Quote product codes when placing your order.
- * When possible, fax details of cut and/or bent bar and mesh.

For Delivery

- * Quote your order number, delivery site address, contact name and phone number.
- * Supply the nearest cross street and/or landmark to the site.
- * Supply any other "site access or opening and closing time" information.

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Reinforcing Mesh

Ribbed Square Mesh to AS4671 - L Class 6.0 metres x 2.4 metres					
Product Code	Price Per Sheet	Std Unit	Longitudinal Wires	Cross Wires	Mass kg
SL52	\$64.80	Sheet	10 x 4.77 @ 200 +4 x 4.00 @ 100	30 x 4.77 @ 200	21
SL62	\$91.70	Sheet	10 x 6.00 @ 200 +4 x 4.24 @ 100	30 x 6.00 @ 200	33
SL72	\$114.00	Sheet	10 x 6.75 @ 200 +4 x 4.77 @ 100	30 x 6.75 @ 200	41
SL81	\$309.40	Sheet	25 x 7.60 @ 100	60 x 7.60 @ 100	105
SL82	\$144.50	Sheet	10 x 7.60 @ 200 +4 x 5.37 @ 100	30 x 7.60 @ 200	52
SL92	\$184.00	Sheet	10 x 8.60 @ 200 +4 x 6.00 @ 100	30 x 8.60 @ 200	66
SL102	\$245.10	Sheet	10 x 9.50 @ 200 +4 x 6.75 @ 100	30 x 9.50 @ 200	80

Note: Smaller diameter edge wires on SL meshes may be used if they meet the minimum ductility requirements of the standard and the combined cross-sectional area of the edge wires is equal to or greater than cross-sectional area of the longitudinal wire.

Plain Square Mesh 2.4 Metres Wide					
Product Code	Price Per unit	Std Unit	Longitudinal Wires	Cross Wires	Mass Kg
F411	\$998.00	60m Roll	25 x 4 @ 100	601 x 4 @ 100	286
F41G	\$100.30	6.000 Sheet	25 x 4 @ 100	60 x 4 @ 100	29
F521H	\$345.20	30m Roll	5 @ 200	5 @ 200	112

Ribbed UTEMESH to AS4671 - L Class 4.0 metres x 2.0 metres					utemesh 500
Product Code	Price Per Sheet	Std Unit	Longitudinal Wires	Cross Wires	Mass kg
SL62UTE	\$54.40	Sheet	11 x 6.00 @ 200	20 x 6.00 @ 200	18
SL72UTE	\$67.40	Sheet	11 x 6.75 @ 200	20 x 6.75 @ 200	23
SL82UTE	\$84.10	Sheet	11 x 7.60 @ 200	20 x 7.60 @ 200	30

Reinforcing Mesh

Ribbed Rectangular Mesh to AS4671 - L Class					
6.0 metres x 2.4 metres					
Product Code	Price Per Sheet	Std Unit	Longitudinal Wires	Cross Wires	Mass kg
RL718	\$195.90	Sheet	25 x 6.75 @ 100	30 x 7.60 @ 200	67
RL818	\$228.70	Sheet	25 x 7.60 @ 100	30 x 7.60 @ 200	79
RL918	\$269.00	Sheet	25 x 8.60 @ 100	30 x 7.60 @ 200	93
RL1018	\$319.90	Sheet	25 x 9.50 @ 100	30 x 7.60 @ 200	109
RL1118	\$387.20	Sheet	25 x 10.70 @ 100	30 x 7.60 @ 200	130
RL1218	\$501.00	Sheet	25 x 11.90 @ 100	30 x 7.60 @ 200	157

Footling Cage							
Product Code	Price Per unit	Depth mm	Width mm	Top Bar	Bottom Bar	W8 Ligs	Replacement Top & Bottom
ZC110	'n/a'	200	200	2 bar x RW10	2 bar x RW9.5	600	L8TM200
ZC210	'n/a'	300	200	2 bar x RW10	2 bar x RW9.5	600	L8TM200
ZC310	'n/a'	400	200	2 bar x RW10	2 bar x RW9.5	600	L8TM200
ZC711	'n/a'	300	200	3 bar x RW11	3 bar x RW10.7	600	L11TM200
ZC7A	'n/a'	300	200	3 bar x RW8	3 bar x RW10.7	600	L8TM200 T/ L11TM200 B
ZC811	'n/a'	400	200	3 bar x RW11	3 bar x RW10.7	600	L8TM200
FC17	'n/a'	300	300	4 bar x RW8	4 bar x RW7.6	600	L8TM300
FC18	'n/a'	300	300	4 bar x RW11	4 bar x RW10.7	600	L11TM300
FC19	'n/a'	400	300	4 bar x RW8	4 bar x RW7.6	600	L8TM300
FC20	'n/a'	400	300	4 bar x RW11	4 bar x RW10.7	600	L11TM300
FC210A	'n/a'	270	200	2 bar x RW10	2 bar x RW9.5	600	L8TM200
ZCHL11A	'n/a'	200	200	3 bar x RW11	3 bar x RW10.7	200	Screw Pier

Cage support chairs available.

Trench Mesh

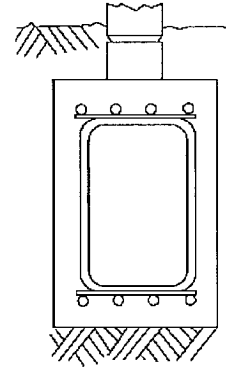
Trench Mesh to AS4671 L Class Size L8					
Product Code	Price Per length	Std Unit	Longitudinal Wires	Cross Wires	Mass Kg
L8TM200	\$20.70	6 Metre	3 x 7.60 @ 100	4.00 @ 300	6.8
L8TM300	\$27.60	6 Metre	4 x 7.60 @ 100	4.00 @ 300	9.2
L8TM400	\$34.00	6 Metre	5 x 7.60 @ 100	4.00 @ 300	11.6
L8TM500	\$39.00	6 Metre	6 x 7.60 @ 100	4.00 @ 300	13.9
L8TM600	\$47.20	6 Metre	7 x 7.60 @ 100	4.00 @ 300	15.9
L8TM2300	\$159.60	6 Metre	25 x 7.60 @ 100	4.00 @ 300	72.0

Trench Mesh to AS4671 L Class Size L11					
Product Code	Price Per length	Std Unit	Longitudinal Wires	Cross Wires	Mass Kg
L11TM200	\$42.30	6 Metre	3 x 10.70 @ 100	4.77 @ 300	13.3
L11TM300	\$55.70	6 Metre	4 x 10.70 @ 100	4.77 @ 300	17.7
L11TM400	\$77.60	6 Metre	5 x 10.70 @ 100	4.77 @ 300	22.3
L11TM500	\$94.90	6 Metre	6 x 10.70 @ 100	4.77 @ 300	26.8
L11TM2300	\$307.40	6 Metre	24 x 10.70 @ 100	4.77 @ 300	107.1

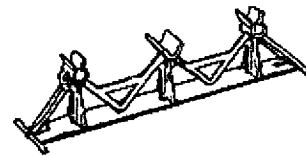
Trench Mesh to AS4671 L Class Size L12					
Product Code	Price Per length	Std Unit	Longitudinal Wires	Cross Wires	Mass Kg
L12TM200	\$56.00	6 Metre	3 x 11.90 @ 100	4.77 @ 300	16.3
L12TM300	\$72.70	6 Metre	4 x 11.90 @ 100	4.77 @ 300	21.8
L12TM400	\$93.40	6 Metre	5 x 11.90 @ 100	4.77 @ 300	27.3
L12TM500	\$112.10	6 Metre	6 x 11.90 @ 100	4.77 @ 300	32.8
L12TM2300	\$422.70	6 Metre	24 x 11.90 @ 100	4.77 @ 300	132.1

Trench Mesh

Standard Ligature			
Product Code	Price Per Bundle	No per Bundle	Size mm
R6F2015	\$7.20	10	200 x 150
R6F3015	\$7.90	10	300 x 150
R6F4015	\$9.50	10	400 x 150
R6F2020	\$7.90	10	200 x 200
R6F2520	\$8.00	10	250 x 200
R6F3020	\$9.30	10	300 x 200
R6F4020	\$11.50	10	400 x 200
R6F4520	\$11.50	10	450 x 200
R6F3025	\$13.00	10	300 x 250
R6F3030	\$11.50	10	300 x 300
R6F4030	\$13.00	10	400 x 300
R6F4530	'n/a'	10	450 x 300



Trench Mesh Support				
Product Code	Price Per Pack	No. per Pack	Wire size mm	Height mm
TMBS	\$30.00	25	8 to 12	65



Handimesh



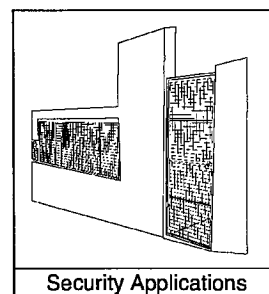
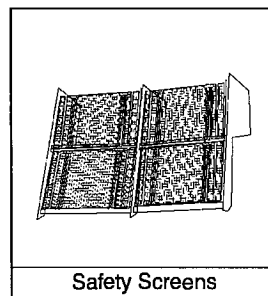
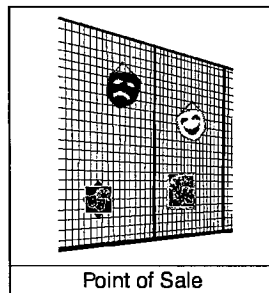
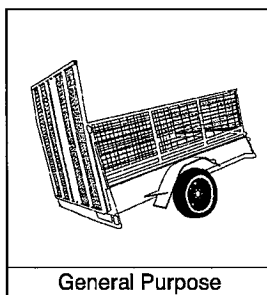
Handimesh Sheet Galvanised wire						
Product Code	Price Per unit	Length m	Width m	Line Wire mm	Cross Wire mm	Weight kg
G112A	\$141.70	3.000	2.400	2.50 @ 25	2.5 @ 25	23
G113	\$181.40	3.000	2.400	3.15 @ 25	3.15 @ 25	36
G123	\$147.20	3.000	2.400	3.15 @ 25	3.15 @ 50	27
G225	\$128.30	3.000	2.400	5.0 @ 50	5.0 @ 50	44
G223H24	\$40.70	2.400	1.200	3.15 @ 50	3.15 @ 50	7
G224	\$115.90	3.000	2.400	4.0 @ 50	4.0 @ 50	29
G234	\$100.40	3.000	2.400	4.0 @ 50	4.0 @ 75	24
G235	\$150.00	3.000	2.400	5.0 @ 50	5.0 @ 75	38
G445A	\$108.20	3.000	2.400	5.6 @ 100	5.6 @ 100	29

Handimesh Sheet Bright Wire						
Product Code	Price Per unit	Length m	Width m	Line Wire mm	Cross Wire mm	Weight kg
B113H24	\$77.20	2.400	1.200	3.15 @ 25	3.15 @ 25	15
B224	\$99.30	3.000	2.400	4.0 @ 50	4.0 @ 50	29
B234	\$83.30	3.000	2.400	4.0 @ 50	4.0 @ 75	24
B225	\$149.90	3.000	2.400	5.0 @ 50	5.0 @ 50	44
B235	\$110.50	3.000	2.400	5.0 @ 50	5.0 @ 75	38
B445A	\$99.60	3.000	2.400	5.6 @ 100	5.6 @ 100	29

Handimesh Sheet - Handi Size Galvanised wire						
Product Code	Price Per unit	Length m	Width m	Line Wire mm	Cross Wire mm	Weight kg
G112AHS	\$38.20	2.000	1.200	2.30 @ 25	2.30 @ 25	8
G122AHS	\$38.20	2.000	1.200	2.30 @ 25	2.30 @ 50	6
G234HS	\$38.20	2.000	1.200	3.50 @ 50	3.50 @ 75	8
G224HS	\$38.20	2.000	1.200	3.50 @ 50	3.50 @ 50	10
G444HS	\$38.20	2.000	1.200	4.00 @ 100	4.00 @ 100	5

Handimesh

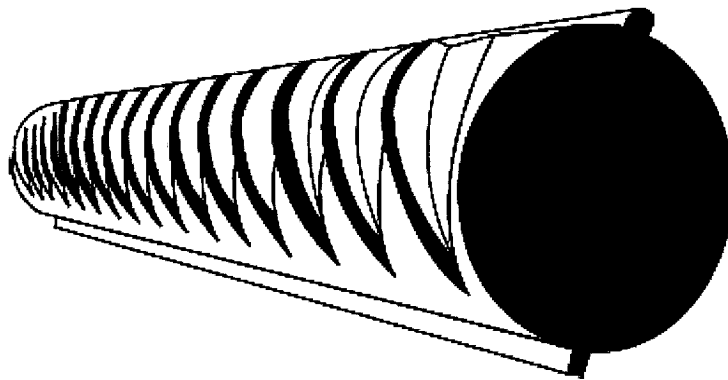
Handimesh Roll						
Product Code	Price Per unit	Length m	Width m	Line Wire mm	Cross Wire mm	Weight kg
G232A9	\$230.50	30.000	0.900	2.5 @ 50	2.5 @ 75	36
G442A9	\$158.10	30.000	0.900	2.5 @ 100	2.5 @ 100	22
G232A12	\$304.20	30.000	1.200	2.5 @ 50	2.5 @ 75	48
G442A12	\$198.80	30.000	1.200	2.5 @ 100	2.5 @ 100	29
G232A18	\$447.40	30.000	1.800	2.5 @ 50	2.5 @ 75	71
G442A18	\$308.80	30.000	1.800	2.5 @ 100	2.5 @ 100	42



Reinforcing Bar

Deformed Reinforcing Bar Standard Length - AS4671 N Class (500MPa)			
Product Code	Price Per tonne	Calculated Mass Per Metre kg/Metre	Calculated Metre Per Tonne
N10S	\$1,895.00	0.632	1582
N12S	\$1,660.00	0.910	1099
N16S	\$1,650.00	1.620	617
N20S	\$1,650.00	2.532	395
N24S	\$1,650.00	3.639	275
N28S	\$1,650.00	4.951	202
N32S	\$1,650.00	6.468	155
N36S	\$1,650.00	8.190	122
N40S	\$1,650.00	10.107	99

Calculated mass per metre includes 2.5% extra as per our Terms and Conditions.
N40S is available only on request. Lead time required



Shaded Area is stock in hand.
No s of bar per tonne eg 122 bars x 9m x 12mm weigh Approx 1 Tonne.

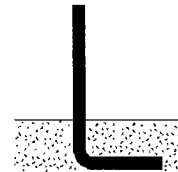
Approximate Lengths Per Tonne								
	6m	7m	8m	9m	10m	12m	15m	Metres Per Tonne
10 MM	264							1582
12 MM	183	157	137	122	110	92		1099
16 MM	103	88	77	69	62	51		617
20 MM	66	56	50	44	40	33	26	395
24 MM	46	39	24	31	28	23	18	275
28 MM	34	29	25	22	20	17	14	202
32 MM	26	22	19	17	15	13	10	155
36 MM	20	17	15	14	12	10	9	122
40 MM							7	99

Reinforcing Bar

Deformed Reinforcing Bar Processed Length - AS4671 N Class (500MPa)			
Product Code	Price Per tonne	Calculated Mass Per Metre kg/Metre	Calculated Metre Per Tonne
N10	\$1,895.00	0.632	1582
N12	\$1,895.00	0.910	1099
N16	\$1,875.00	1.620	617
N20	\$1,860.00	2.532	395
N24	\$1,860.00	3.639	275
N28	\$1,860.00	4.951	202
N32	\$1,860.00	6.468	155
N36	\$1,860.00	8.190	122
N40	\$1,860.00	10.107	99

Scheduled, Cropped, Cut, Bent, Bundled, Tagged. Max 12m.

Starter Bar & Corner Bar			
Product Code	Price Per unit	Bar Size	Size mm
R10L10020	\$1.60	R10	200 x 1000
N12L5050	\$1.95	N12	500 x 500
N12L6060	\$2.25	N12	600 x 600
N12L8080	\$2.80	N12	800 x 800
N12L9090	\$3.05	N12	900 x 900
N12L10020	\$2.20	N12	1000 x 200
N16L6060	\$3.75	N16	600 x 600
N16L8080	\$4.95	N16	800 x 800
N16L100100	\$6.30	N16	1000 x 1000



250S PoolSteel Stock Lengths				poolsteel	
Product Code	Price Per tonne	Stock Lengths	Calculated Mass Per Metre Kg/Metre	Calculated Lengths Per Tonne Bars/Tonne	
S12	\$1,895.00	Processed	0.910 kg/m		
S12S	\$1,660.00	9m	5.46/8.19	188/122	

Reinforcing Bar

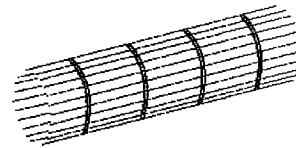
250R Plain Reinforcing Round Bar Processed Lengths				
Product Code	Price Per tonne	DIA mm	Calculated Mass Per Metre Kg/Metre	Calculated Metre Per Tonne
R10	\$2,030.00	10	0.632	1582
R12	\$1,955.00	12	0.910	1099
R16	\$1,955.00	16	1.620	617
R20	\$1,895.00	20	2.532	395
R24	\$1,895.00	24	3.639	275
R28	'n/a'	28	4.607	217
R32	\$1,895.00	32	6.882	145
R36	'n/a'	36	8.190	122

250R Plain Reinforcing Round Bar Standard Lengths				
Product Code	Price Per tonne	DIA mm	Calculated Mass Per Metre Kg/Metre	Calculated Metre Per Tonne
R10S	\$2,030.00	10	0.632	1582
R12S	\$1,955.00	12	0.910	1099
R16S	\$1,955.00	16	1.620	617
R20S	\$1,895.00	20	2.532	395
R24S	\$1,895.00	24	3.639	275
R28S	\$1,895.00	28	4.607	217
R32S	\$1,895.00	32	6.882	145
R36S	\$1,895.00	36	8.190	122

6 Metre lengths standard

BAMTEC - "Carpets"

Concrete Slab Reinforcement System	
Product Code	Price Per tonne
N10BM	\$2,025.00
N12BM	\$2,025.00
N16BM	\$2,025.00
N20BM	\$2,025.00
N24BM	\$2,025.00
N28BM	\$2,025.00
N32BM	\$2,025.00



Added Benefits

- * Super-fast construction.
- * Save up to 80% on steel-fixing costs.
- * Ideal for suspended slabs, slab on ground, CRCP and tilt-up panels.
- * Improves cost effectiveness of slab construction.
- * Variable spacing and steel diameters available.
- * Improved accuracy and quality.
- * Less material waste and scrap.
- * Design assistance available.
- * Less bending and carrying.
- * Easier chairing and no bars to sort.
- * Simpler marking plan.

BAMTEC: Reinforcing in a Roll

Incorporating finite element slab design and detailing software by INDUCTA, the integrated BAMTEC system involves prefabricating reinforcing steel "carpets" to virtually any shape or size.

BAMTEC carpets can contain different diameters of bars, have bars at different spacing and can accommodate different carpet shapes and penetrations. Each layer has only one layer of steel, which means if four layers of steel are required, then four carpets will be needed.

Size limits

The minimum diameter of bar which can be used with BAMTEC system is 10mm.
The largest diameter used is 32mm Class N 500Plus Rebar.

The minimum bar spacing is 50mm up to a maximum spacing of 400mm. BAMTEC comes in widths from 1.8m minimum to 15m. Maximum weight per carpet is approximately 1.6 Tonne.

Summary

BAMTEC offers designers and builders a new way to significantly improve the speed and quality of construction, while reducing the cost of steel fixing. A OneSteel Reinforcing detailing manual covering the use of BAMTEC is available on request. Carpets using 500PLUS Rebar are a OneSteel construction solution which can help you maximise the efficiency and cost-effectiveness of your next project.

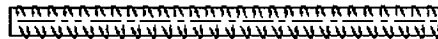
Lead Times

Minimum 10 Working Days or as negotiated

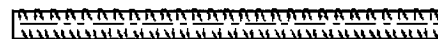
500PLUS REIDBAR

500+^{PLUS}
REIDBAR

Bar - Cut to length Processed								
Product Code	Price Per Metre	Nom Thread Pitch	Min Yield Strength	Min Ultimate Strength	Min Shear (.62 min ult)	Mass	Nom Area	Min Hole Dia to Pass Bar
		mm	kN	kN	kN	kg/m	sq mm	Bar
RB12	\$2.20	8	56.5	61.0	37.8	0.88	113	15
RBA16	\$3.65	9	100.6	108.5	67.3	1.58	201	20
RBA20	\$5.75	11	157.0	169.6	105.2	2.47	314	24
RB25	\$8.95	12.9	245.5	265.1	164.4	3.85	491	29
RB32	\$14.60	16.4	402.0	434.2	269.2	6.31	804	38



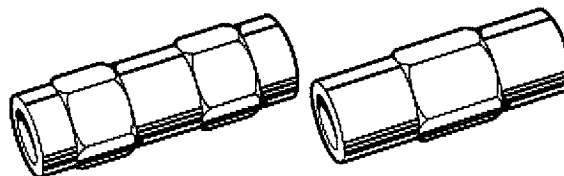
Bar - Stock Length 6m & 12m								
Product Code	Price Per Metre	Nom Thread Pitch	Min Yield Strength	Min Ultimate Strength	Min Shear (.62 min ult)	Mass	Nom Area	Min Hole Dia to Pass Bar
		mm	kN	kN	kN	kg/m	sq mm	Bar
RB12S	\$1.80	8	56.5	61.0	37.8	0.88	113	15
RBA16S	\$3.00	9	100.6	108.5	67.3	1.58	201	20
RBA20S	\$4.70	11	157.0	169.6	105.2	2.47	314	24
RB25S	\$7.30	12.9	245.5	265.1	164.4	3.85	491	29
RB32S	\$11.80	16.4	402.0	434.2	269.2	6.31	804	38



500PLUS REIDBAR

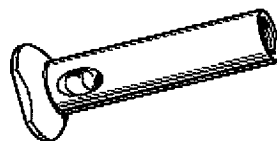
Coupler							
Product Code	Price Per unit	Overall Length mm	Hex A/F mm	Size A/F mm	Body OD mm	Thread Depth mm	Weight Kg
RB12C	\$5.25	90	25	29	22	43	0.23
RBA16C	\$8.05	102	30	34	30	47	0.31
RBA20C	\$8.80	129	37	43	35	61	0.50
RB25C	\$14.80	162	45	52	43	78	1.16
RB32C	\$28.20	210	57	66	55	102	2.30

Also available galvanised



Threaded Insert						
Product Code	Price Per unit	Overall Length mm	Body Overall Dia.	Foot Overall Dia.	Threaded Depth mm	Weight Kg
RB12TI	\$4.75	100	22	38	43	0.23
RBA16TI	\$6.85	118	30	50	47	0.47
RBA20TI	\$9.10	148	35	64	61	0.72
RB25TI	\$16.20	191	43	80	78	1.27

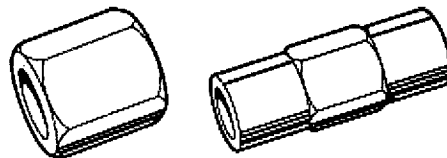
1. Prices are for black products only. For galvanised prices please contact your OneSteel Service Centre.
2. 500PLUS REIDBAR is available in lengths up to 12m.
3. Processed Reidbar less than 500 mm in length will be charged at higher rate P.O.A.



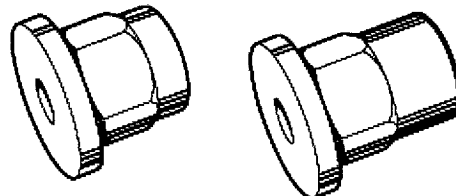
500PLUS REIDBAR

Nut				
Product Code	Price Per unit	Nut Bar Yield x 1.5 Length mm	Torque Nut Bar Ultimate Length mm	Hex size mm
RB12N	\$1.80	40	N/A	25
RBA16N	\$3.20	35	N/A	30
RBA20N	\$4.15	45	N/A	36
RB25N	\$14.00	50	N/A	46
RB32N	\$16.90	65	N/A	50

Hex size may vary depending on manufacturer
 Also available galvanized



Foot / Flange Nut						
Product Code	Price Per unit	Overall Length mm	Hexagon Size A/F mm	Body Dia. Overall mm	Foot Dia. Overall mm	Weight kg
RB12FP	\$3.70	40		22	38	0.13
RBA16FP	\$6.80	51	30	30	50	0.24
RBA20FP	\$7.35	66	37	35	64	0.38
RB25FP	\$9.50	70	46	80	80	0.61
RB32FP	\$18.50	95	57	101	101	1.26



500PLUS REIDBAR

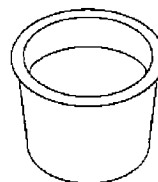
Base Plate		
Product Code	Price Per unit	Product Description
RBA20BP	\$10.30	For RBA16 & RBA20
RB32BP	\$15.10	For RB25 & RB32



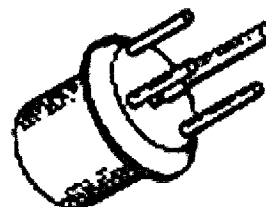
Spherical Washer						
Product Code	Price Per unit	OD mm	ID mm	Thick mm	Weight mm	Product Description
RBA20SWG	\$3.55					
RBA20SW	\$2.35					For RBA16 & RBA20
RB32SW	\$3.55	70	37	24	0.31	For RB25 & RB32



End Cap	
Product Code	Price Per unit
RB12CAP	\$0.43
RBA16CAP	\$0.43
RBA20CAP	\$0.43
RB25CAP	\$0.43
RB32CAP	\$0.43

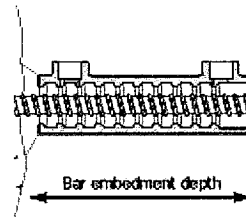
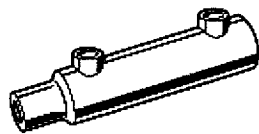


Antenna Cap	
Product Code	Price Per unit
RB12AC	\$0.43
RBA16AC	\$0.43



500PLUS REIDBAR

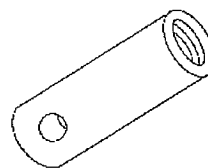
Grout Sleeve									
Product Code	Price Per unit	Overall Length	Thread depth	Body ID	Body OD	Nom Grout Vol ml	Bar Embedment		Weight
		mm	mm	mm	mm		Min mm	Max mm	kg
RBA16GS	\$23.00	200	45	48-36	58-46	200	110	150	1.1
RBA20GS	\$32.50	290	61	40	60	350	174	224	2.3
RB25GS	\$49.10	360	78	48	70	550	234	274	3.7
RB32GS	\$62.20	385	109	55	75	750	328	368	6.2



Nailing Plate	
Product Code	Price Per unit
RB12NP	\$0.54
RBA16NP	\$0.54
RBA20NP	\$0.54
RB25NP	\$0.54



Till Panel Ferrule	
Product Code	Price Per unit
RB12TIM	\$6.35
RBA16TIM	\$6.35

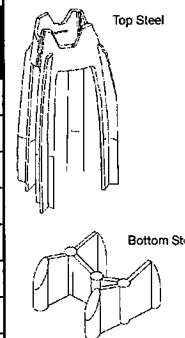


Bar Chair

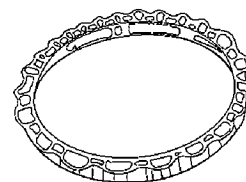
Combination Bar Chair Slab On Ground			
Product Code	Price Per Bag	No. per bag	Height mm
COM2540	\$28.00	100	25 or 40
COM5065	\$34.00	100	50 or 65
COM7590	\$42.00	100	75 or 90
COM85100	\$46.00	100	85 or 100
COM105110	\$83.00	100	105 or 110
COM115120	\$93.00	100	115 or 120
COM125130	\$100.00	100	125 or 130
COM135140	\$105.00	100	135 or 140
COM145150	\$110.00	100	145 or 150



Suspended Slab Combination Bar Chair				
Product Code	Price Per Bag	No per bag	Product Description	Height (mm)
COMDC2025	\$18.00	100	Combination Deck Chair	20/25
COMDC2530	\$21.00	100	Combination Deck Chair	25/30
COMDC3040	\$23.00	100	Combination Deck Chair	30/40
COMDC3545	\$23.00	100	Combination Deck Chair	35/45
COMDC5065	\$46.00	100	Combination Deck Chair	50/65
COMDC6575	\$60.00	100	Combination Deck Chair	65/75
COMDC90100	\$67.00	100	Combination Deck Chair	90/100
COMDC110120	\$82.00	100	Combination Deck Chair	110/120
COMDC130140	\$100.00	100	Combination Deck Chair	130/140
COMDC150160	\$120.00	100	Combination Deck Chair	150/160
COMDC170180	\$150.00	100	Combination Deck Chair	170/180
COMDC190200	\$160.00	100	Combination Deck Chair	190/200

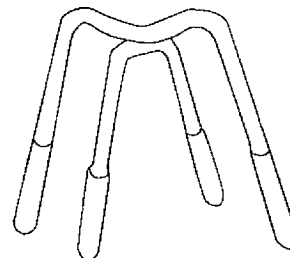


Metal Base			
Product Code	Price Per Bag	No. per bag	Product Description
MB	\$47.00	100	Metal Chair up to 110mm (Square)
MBL	\$62.50	50	Metal Chair above 110mm



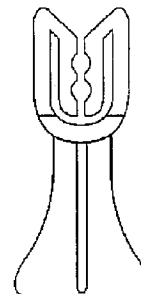
Bar Chair

Plastic Tipped Metal Bar Chair			
Product Code	Price Per Bag	No. per bag	Height mm
MC20	\$30.00	100	20
MC25	\$32.00	100	25
MC30	\$33.00	100	30
MC40	\$37.00	100	40
MC50	\$47.00	100	50
MC65	\$51.00	100	65
MC75	\$55.00	100	75
MC80	\$56.00	100	80
MC90	\$59.00	100	90
MC100	\$63.00	100	100
MC110	\$37.00	50	110
MC120	\$42.50	50	120
MC130	\$48.00	50	130
MC140	\$52.50	50	140
MC150	\$70.00	50	150
MC160	\$90.00	50	160
MC170	\$102.50	50	170
MC180	\$115.00	50	180
MC190	\$120.00	50	190
MC200	\$127.50	50	200
MC210	\$140.00	50	210
MC220	\$140.00	50	220
MC230	\$140.00	50	230
MC240	\$142.50	50	240
MC250	\$142.50	50	250
MC260	\$147.50	50	260
MC270	\$147.50	50	270
MC280	\$75.00	25	280
MC290	\$75.00	25	290
MC300	\$76.25	25	300
MC320	\$78.75	25	320
MC340	\$81.25	25	340
MC360	\$85.00	25	360

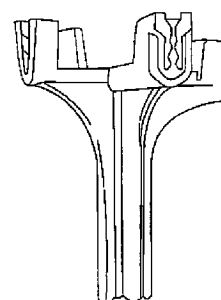


Bar Chair

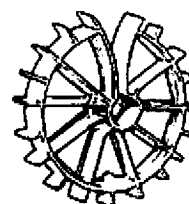
Plastic Clip-On Chair Suit Bar				
Product Code	Price Per Bag	No. per bag	Concrete Cover mm	Suit Bar size mm
PC20B	\$28.00	100	20	4 to 16
PC25B	\$30.00	100	25	4 to 16
PC30B	\$30.00	100	30	4 to 16
PC40B	\$33.00	100	40	4 to 16
PC50B	\$41.00	100	50	4 to 18
PC65B	\$47.00	100	65	4 to 18
PC75B	\$57.00	100	75	4 to 18



Plastic Clip-On Chair Suit Mesh			
Product Code	Price Per Bag	No. per bag	Height mm
PC20M	\$28.00	100	20
PC25M	\$32.00	100	25
PC30M	\$37.00	100	30
PC40M	\$42.00	100	40
PC50M	\$46.00	100	50
PC65M	\$51.00	100	65
PC75M	\$55.00	100	75

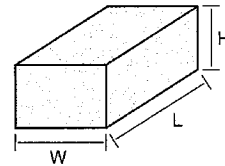


Circular Plastic Clip-On Chair				
Product Code	Price Per Bag	No. per bag	Concrete Cover mm	Suit Bar size mm
CPC20	\$25.00	100	20	4 to 16
CPC25	\$25.00	100	25	4 to 16
CPC25A	'n/a'	100	25	12 to 20
CPC30	\$32.00	100	30	4 to 16
CPC30A	\$42.00	100	30	12 to 20
CPC40	\$43.00	100	40	4 to 16
CPC40A	\$51.00	100	40	12 to 20
CPC50	\$55.00	100	50	8 to 12
CPC50A	\$65.00	100	50	12 to 20
CPC65	\$90.00	100	65	8 to 12
CPC75	\$165.00	100	75	8 to 12
CPC75A	\$180.00	100	75	12 to 20

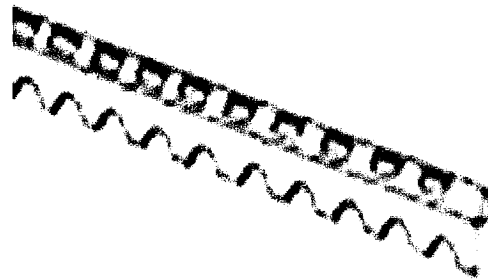


Bar Chair

Concrete Block				
Product Code	Price Per Bag	No. per bag	Block Size mm W - L - H	Approx Mass Kgs
CB765	\$13.50	25	75 x 65 x 50	27

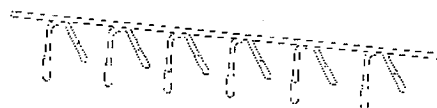


Continuous Bar Chair Plastic		
Product Code	Price Per 2 metre	Size mm
CC20	\$4.25	20
CC25	\$4.60	25
CC30	\$4.90	30
CC40	\$6.25	40
CC50	\$6.90	50
CC65	\$9.10	65



Bar Chair

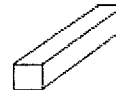
Continuous Bar Chair Metal		
Product Code	Price Per 2 metre	Size mm
CBCG20	\$4.40	20
CBCG25	\$4.50	25
CBCG30	\$4.50	30
CBCG40	\$4.50	40
CBCG50	\$4.50	50
CBCG60	\$4.65	60
CBCG75	\$4.80	75
CBCG90	\$5.15	90
CBCG100	\$5.35	100
CBCG110	\$5.45	110
CBCG120	\$5.90	120
CBCG130	\$6.05	130
CBCG140	\$6.20	140
CBCG150	\$6.35	150
CBCG160	\$6.65	160
CBCG170	\$6.90	170
CBCG180	\$10.40	180
CBCG190	\$10.50	190
CBCG200	\$10.80	200
CBCG210	\$11.10	210
CBCG220	\$11.30	220
CBCG230	\$11.70	230
CBCG240	\$11.80	240
CBCG250	\$12.10	250
CBCG260	\$12.40	260
CBCG270	\$12.50	270
CBCG280	\$12.80	280
CBCG290	\$13.00	290



Reinforcing Accessory

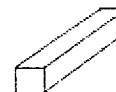
OneSteel Square Dowel Black		
Product Code	Price Per unit	Product Description
SQ16D400F	\$3.05	16mm square black dowels 400mm long
SQ16D500F	\$3.55	16mm square black dowels 500mm long
SQ16D600F	\$4.10	16mm square black dowels 600mm long
SQ20D400F	\$4.25	20mm square black dowels 400mm long
SQ20D500F	\$5.10	20mm square black dowels 500mm long
SQ20D600F	\$6.00	20mm square black dowels 600mm long

Grade 300 PLUS Dowels



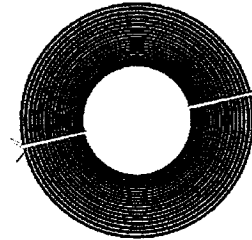
OneSteel Square Dowel Galvanised		
Product Code	Price Per unit	Product Description
SQ16D400FG	\$4.55	16mm square galvanised dowels 400mm long
SQ16D500FG	\$5.45	16mm square galvanised dowels 500mm long
SQ16D600FG	\$6.60	16mm square galvanised dowels 600mm long
SQ20D400FG	\$6.60	20mm square galvanised dowels 400mm long
SQ20D500FG	\$8.15	20mm square galvanised dowels 500mm long
SQ20D600FG	\$9.65	20mm square galvanised dowels 600mm long

Grade 300 PLUS Dowels

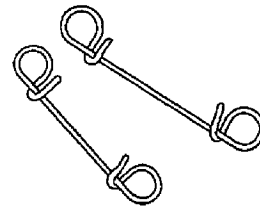


Reinforcing Accessory

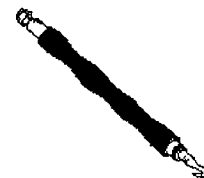
Tie Wire Roll					
Product Code	Price Per unit	Product Description	Metres	Mass kg	Black or Galvanised
TWC	\$4.50	Per kg	60	1	Black
BP1.5	\$11.10	Belt Pack	85	1.5	Black
TW315	\$4.50	Per kg	16	1	Black



Bag Tie				
Product Code	Price Per unit	Size mm	No. per roll	Std Unit
BT110	\$49.00	110	2000	Per Roll
BT125	\$51.00	125	2000	Per Roll
BT150	\$54.80	150	2000	Per Roll
BT175	\$55.40	175	2000	Per Roll
BT200	\$62.90	200	2000	Per Roll



Reel, Belt & Tool		
Product Code	Price Per unit	Product Description
TTMS	\$38.90	Bag Tie twisting Tool
TTOOL	\$76.40	Bag Tie twisting Tool (Ratchet Type)
IDLBELT	\$72.20	Ideal Belt & Buckle To Suit Reel

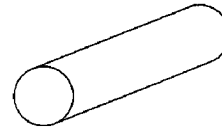


Reinforcing Accessory

Round Dowel Bar Friction Cut - Black

Product Code	Price Per unit	Bar size mm	Length mm	Quantity per 100Kg
R16D400F	\$2.30	16	400	154
R16D500F	\$2.60	16	500	123
R16D600F	\$2.90	16	600	103
R20D400F	\$3.40	20	400	154
R20D500F	\$3.90	20	500	123
R20D600F	\$4.40	20	600	66

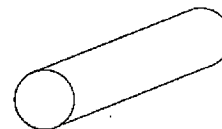
Other sizes available - POA.



Round Dowel Bar Friction Cut - Galvanised

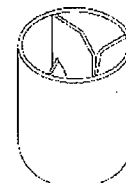
Product Code	Price Per unit	Bar size mm	Length mm	Quantity per 100Kg
R16D400FG	\$3.60	16	400	154
R16D500FG	\$4.35	16	500	123
R16D600FG	\$5.00	16	600	103
R20D400FG	\$4.85	20	400	154
R20D500FG	\$5.65	20	500	123
R20D600FG	\$6.60	20	600	66

Other sizes available - POA.



Bar Guard - Plastic Yellow

Product Code	Price Per Bag	No. per bag	Suit Bar
BSC	\$94.00	100	ALL



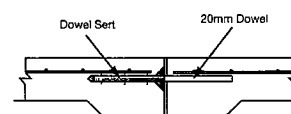
Dowel Cap - Plastic (Suits bar)

Product Code	Price Per Bag	No. per bag	Suit Bar
DCP1620	\$50.00	100	100
DCP24	\$55.00	100	100



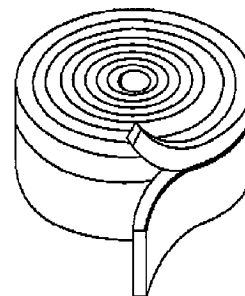
Dowel Sert

Product Code	Price Per Bag	No. per bag	Length mm	To Suit Bar Size
DS20300	\$3.40	1	300	20
DS16230	\$3.00	1	230	16

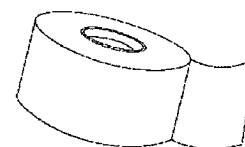


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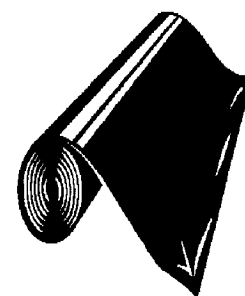
Ableflex Expansion Joint				
Product Code	Price Per unit	Nominal Height	Thickness mm	Roll Length
AFX1075	\$42.60	75mm	10mm	25m
AFX10100	\$56.60	100mm	10mm	25m
AFX10125	\$70.70	125mm	10mm	25m
AFX10150	\$84.90	150mm	10mm	25m
AFX10200	\$113.20	200mm	10mm	25m



PVC Joining Tape				
Product Code	Price Per unit	Length m	Width m	Colour
PTR	\$5.15	30	50	Silver



Polythene Building Film						
Product Code	Price Per unit	Length m	Width m	Gauge um	Colour	Mass kg
POV22	\$99.10	50	2	200	Orange	18.5
POV24	\$152.70	50	4	200	Orange	37
POV26	\$152.70	33	6	200	Orange	37
POV24H	\$144.30	25	4	300	Orange	28
PB24	\$118.90	50	4	200	Black	36.9

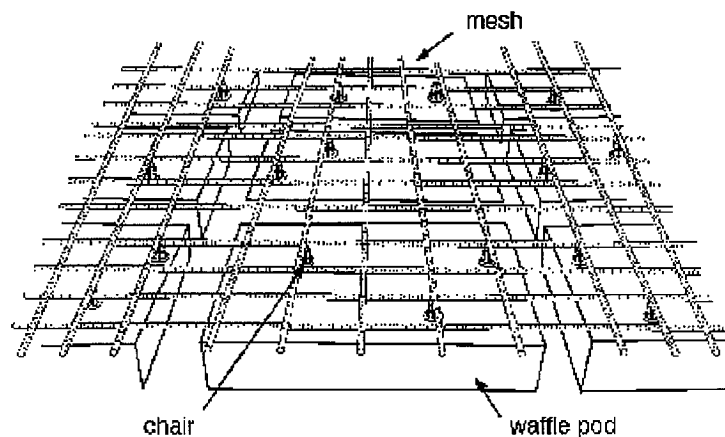


Clear Polythene Curing Film						
Product Code	Price Per unit	Length m	Width m	Gauge um	Colour	Mass kg
PN14	\$106.60	100	4	100	Clear	14

Safety Tape				
Product Code	Price Per Roll	Length m	Width mm	Colour
SAFETAPE	\$9.90	100	75	Red & White

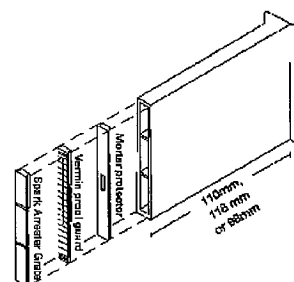
Reinforcing Accessory

Waffle Pod		
Product Code	Price Per unit	Dimensions
POD175	\$14.90	1100mm x 1100mm
POD225	\$15.50	1100mm x 1100mm
POD300	\$16.60	1100mm x 1100mm
POD375	\$20.10	1100mm x 1100mm
PODINT4	\$2.25	4 Way Spacer - Internal
PODEXT3	\$2.25	3 Way Spacer - External
PODINT1100	\$1.15	4 Way Spacer

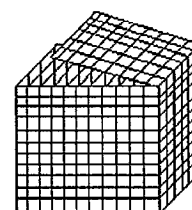


Weepa		
Product Code	Price Per Pack	No. per Pack
WEEPA098	\$52.50	25
WEEPA110	\$52.50	25
WEEPA118	\$52.50	25
WEEPASSG	\$26.25	25

Optional Stainless Steel "Spark Arrester" Grate also available.



Mesh Bin (Ready to assemble)		
Product Code	Price Per unit	Product Description
RBIN	\$95.40	1.200x1.200x1.200 with lid



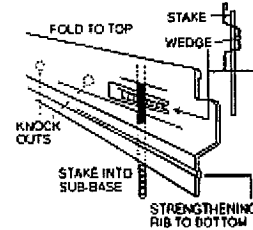
Connolly Accessory

Connolly

Key Joint

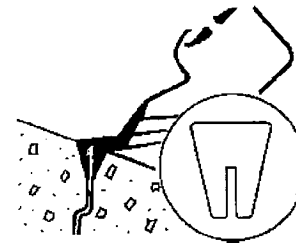
Product Code	Price Per length	Nominal Height	Length
KJ100	\$54.10	100mm	6m
KJ150	\$77.30	150mm	6m
KJ200	\$88.60	200mm	6m

Price includes fixing system (Peg & Wedges - 8 per 6m length).



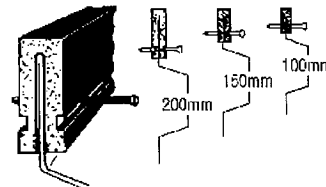
Key Joint Capping Strip

Product Code	Price Per roll	PVC Capping	Length
KJCAP	\$57.50	Removable	24m
KJPCAP	\$86.50	Retained	24m



Filler Strip

Product Code	Price Per length	To Suit	Length
KJF100	\$17.10	100mm	6m
KJF150	\$20.50	150mm	6m
KJF200	\$27.70	200mm	6m



Crack Inducer No Capping

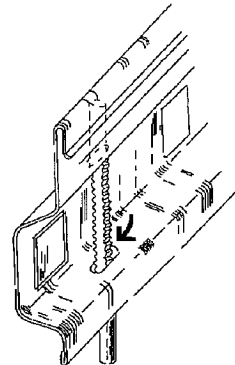
Product Code	Price Each	Length mm	Standard Pack Size
KC125	\$9.95	25mm x 3000	10
KC145	'n/a'	45mm x 3000	10

Danley Product

Key Joint

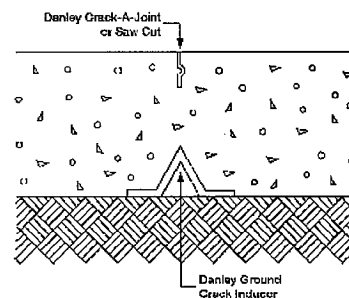
Product Code	Price Per unit	Height	Length
KJD3100	\$27.60	100mm	3 Metres
KJD3125	\$33.60	125mm	3 Metres
KJD3150	\$38.30	150mm	3 Metres
KJD3200	\$43.60	200mm	3 Metres
KJD3250	\$50.50	250mm	3 Metres
KJD6100	\$55.50	100mm	6 Metres
KJD6125	\$67.40	125mm	6 Metres
KJD6150	\$75.90	150mm	6 Metres
KJD6200	\$86.90	200mm	6 Metres
KJD6250	\$100.90	250mm	6 Metres

Price includes stakes in the system.
 8 stakes per 6 metre length and 4 stakes per 3 metre length.



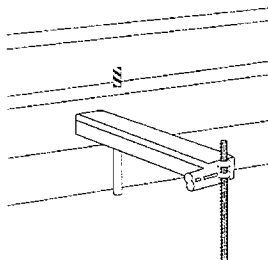
Ground Crack Inducer

Product Code	Price Per unit	Product Description
DCI25	\$8.15	25mm x 3000mm To Suit Slab Up To 150mm
DCI50	\$11.90	50mm x 3000mm To Suit Slab 150 - 250mm



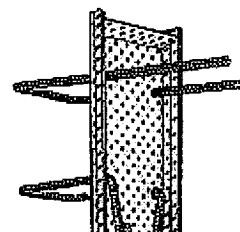
Key Joint Stake

Product Code	Price Per unit	Product Description	Length
KJDPEG3	\$2.60	10mm Stake for 100-150KJ	350mm
KJDPEG4	\$2.95	10mm Stake for 200KJ	450mm
KJDPEG5	\$3.50	10mm Stake for 250KJ	550mm



Danley Product

Rebox		
Product Code	Price Per unit	Product Description
REB151512	P.O.A.	150-160 thick, 150c/c, 12mm
REB152012	P.O.A.	150-160 thick, 200c/c, 12mm
REB152512	P.O.A.	150-160 thick, 250c/c, 12mm
REB153012	P.O.A.	150-160 thick, 300c/c, 12mm
REB151516	P.O.A.	150-160 thick, 150c/c, 16mm
REB152016	P.O.A.	150-160 thick, 200c/c, 16mm
REB152516	P.O.A.	150-160 thick, 250c/c, 16mm
REB153016	P.O.A.	150-160 thick, 300c/c, 16mm
REB181512	P.O.A.	180-200 thick, 150c/c, 12mm
REB182012	P.O.A.	180-200 thick, 200c/c, 12mm
REB182512	P.O.A.	180-200 thick, 250c/c, 12mm
REB183012	P.O.A.	180-200 thick, 300c/c, 12mm
REB181516	P.O.A.	180-200 thick, 150c/c, 16mm
REB182016	P.O.A.	180-200 thick, 200c/c, 16mm
REB182516	P.O.A.	180-200 thick, 250c/c, 16mm
REB183016	P.O.A.	180-200 thick, 300c/c, 16mm
REB251512	P.O.A.	250 thick, 150c/c, 12mm
REB252012	P.O.A.	250 thick, 200c/c, 12mm
REB252512	P.O.A.	250 thick, 250c/c, 12mm
REB253012	P.O.A.	250 thick, 300c/c, 12mm
REB251516	P.O.A.	250 thick, 150c/c, 16mm
REB252016	P.O.A.	250 thick, 200c/c, 16mm
REB252516	P.O.A.	250 thick, 250c/c, 16mm
REB253016	P.O.A.	250 thick, 300c/c, 16mm
REB301512	P.O.A.	300 thick, 150c/c, 12mm
REB302012	P.O.A.	300 thick, 200c/c, 12mm
REB302512	P.O.A.	300 thick, 250c/c, 12mm
REB303012	P.O.A.	300 thick, 300c/c, 12mm
REB301516	P.O.A.	300 thick, 150c/c, 16mm
REB302016	P.O.A.	300 thick, 200c/c, 16mm
REB302516	P.O.A.	300 thick, 250c/c, 16mm

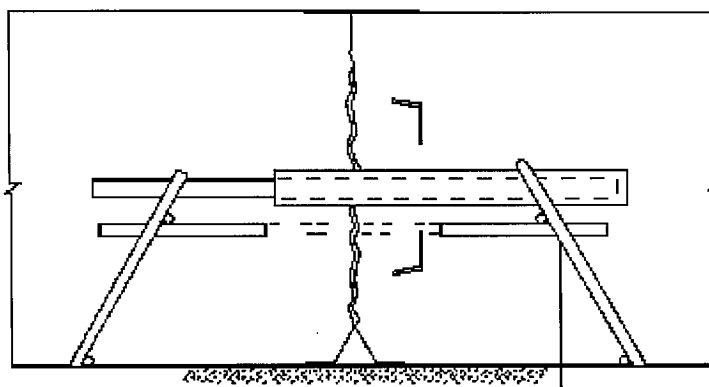


Other sizes are available - POA.

Danley Product

Dowel Cradle (Galvanised)				
Product	Price	Nominal	Length	Product
DDCR16G	P.O.A.	As Required	3 Metres	Round
DDCR20G	P.O.A.	As Required	3 Metres	Round
DDCSQ16G	P.O.A.	As Required	3 Metres	Square
DDCSQ20G	P.O.A.	As Required	3 Metres	Square

Dowel Cradle (Black)				
Product Code	Price Per unit	Nominal Height	Length	Product Description
DDCR16	P.O.A.	As Required	3 Metres	Round
DDCR20	P.O.A.	As Required	3 Metres	Round
DDCSQ16	P.O.A.	As Required	3 Metres	Square
DDCSQ20	P.O.A.	As Required	3 Metres	Square



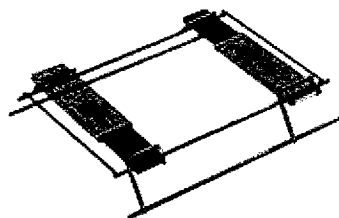
Expanda Joint			
Product Code	Price per Metre	Description	Maximum Length Metres
EXPKJ100C	\$15.10	Expanda Joint 100 High Cut to Length	per Metre
EXPKJ125C	\$16.40	Expanda Joint 125 High Cut to Length	per Metre
EXPKJ150C	\$18.30	Expanda Joint 150 High Cut to Length	per Metre
EXPKJ200C	\$21.60	Expanda Joint 200 High Cut to Length	per Metre
EXPKJ250C	\$24.70	Expanda Joint 250 High Cut to Length	per Metre

Danley Product



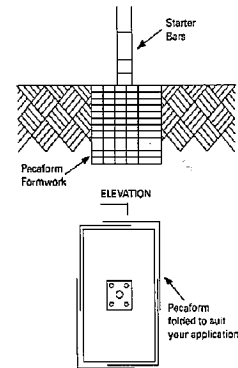
Plate Grade 6mm x 3.000			
Product Code	Price Per unit	Product Description	Material
DCP6450120	\$61.00	6mm x 300mm 450ctrs 3 m suit 120 slab	Black
DCP6450120G	\$68.80	6mm x 300mm 450ctrs 3 m suit 120 slab	Galvanised
DCP6450150	\$61.80	6mm x 300mm 450ctrs 3 m suit 150 slab	Black
DCP6450150G	\$69.60	6mm x 300mm 450ctrs 3 m suit 150 slab	Galvanised
DCP6450175	\$62.60	6mm x 300mm 450ctrs 3 m suit 175 slab	Black
DCP6450175G	\$70.50	6mm x 300mm 450ctrs 3 m suit 175 slab	Galvanised
DCP6450200	\$63.50	6mm x 300mm 450ctrs 3 m suit 200 slab	Black
DCP6450200G	\$71.30	6mm x 300mm 450ctrs 3 m suit 200 slab	Galvanised

Plate Grade 10mm x 3.000			
Product Code	Price Per unit	Product Description	Material
DCP10450175	\$76.60	10mm x 300mm 450ctrs 3 m suit 175 slab	Black
DCP10450175G	\$89.60	10mm x 300mm 450ctrs 3 m suit 175 slab	Galvanised
DCP10450200	\$77.80	10mm x 300mm 450ctrs 3 m suit 200 slab	Black
DCP10450200G	\$91.00	10mm x 300mm 450ctrs 3 m suit 200 slab	Galvanised
DCP10450250	\$79.30	10mm x 300mm 450ctrs 3 m suit 250 slab	Black
DCP10450250G	\$92.90	10mm x 300mm 450ctrs 3 m suit 250 slab	Galvanised
DCP10500200	\$69.20	10mm x 300mm 500ctrs 3 m suit 200 slab	Black
DCP10500200G	\$82.30	10mm x 300mm 500ctrs 3 m suit 200 slab	Galvanised
DCP10600150	\$60.50	10mm x 300mm 600ctrs 3 m suit 150 slab	Black
DCP10600150G	\$71.00	10mm x 300mm 600ctrs 3 m suit 150 slab	Galvanised
DCP10600200	\$61.80	10mm x 300mm 600ctrs 3 m suit 200 slab	Black
DCP10600200G	\$72.60	10mm x 300mm 600ctrs 3 m suit 200 slab	Galvanised

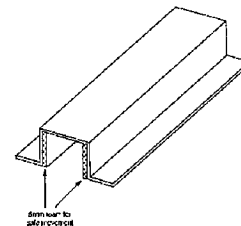


Danley Product

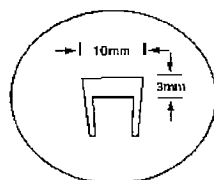
Pecaform Formwork System		
Product Code	Price Per unit	Product Description
PECA600	P.O.A.	600mm x 2250mm sheet
PECA900	P.O.A.	900mm x 2250mm sheet
PECA1200	P.O.A.	1200mm x 2400mm sheet
PECA1500	P.O.A.	1500mm x 2400mm sheet
PECA1800	P.O.A.	1875mm x 2400mm sheet
PECA2400	P.O.A.	2400mm x 2400mm sheet
PECASPEC	P.O.A.	Special Shape Pecaform (per m2)
PECACTS	P.O.A.	Cut to size Pecaform (per m2)
PECAFORM	P.O.A.	Std Sheet (per m2)



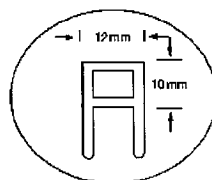
Metal Square Dowel Cover			
Product Code	Price Per unit	To Suit Dowel Size	Length
SQDC16200	\$3.45	16mm	200mm
SQDC16250	\$4.55	16mm	250mm
SQDC16300	\$5.25	16mm	300mm
SQDC20200	\$3.75	20mm	200mm
SQDC20250	\$4.90	20mm	250mm
SQDC20300	\$5.55	20mm	300mm



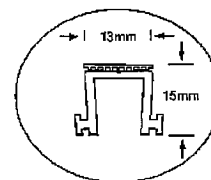
Key Joint Capable Strip				
Product Code	Price Per unit	Product Description	Colour	Length per Roll
KJDCAPR10	\$73.50	Removable Standard		25 Mtrs
KJDCAPR12	\$108.80	Removable Block		25 Mtrs
DRASB	\$111.80	Rip-A-Strip	Black	25 Mtrs
DRASG	\$111.80	Rip-A-Strip	Grey	25 Mtrs
DRASS	\$111.80	Rip-A-Strip	Sandstone	25 Mtrs
DRAST	\$111.80	Rip-A-Strip	Terracotta	25 Mtrs



STANDARD
Removable Capping



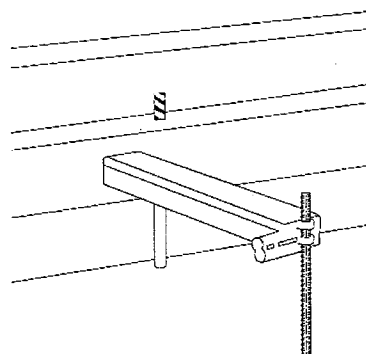
BLOCK
Removable Capping



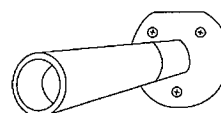
RIP-A-STRIP
Permanent Capping

Danley Product

Dowelmaster System - Square			
Product Code	Price Per unit	To Suit Dowel Size	Length
DWLM16	\$2.55	16mm	200
DWLM20	\$3.00	20mm	250
DWLM16NP	\$0.79	16mm	Nailing Plate
DWLM20NP	\$0.92	20mm	Nailing Plate



Speed Sleeve System - Round			
Product Code	Price Per unit	To Suit Dowel Size	Length
DSPSLR1620	\$1.55	16mm	230mm
DSPSLR1630	\$1.85	16mm	300mm
DSPSLR2020	\$1.75	20mm	230mm
DSPSLR2030	\$2.15	20mm	300mm
DSPSLNP16	\$0.85	16mm	Nailing Plate
DSPSLNP20	\$1.05	20mm	Nailing Plate



Diamond Dowel System						
Product Code	Price Per unit	No per Box	Size mm	Product Description	Material	Colour
DDDBLNP6	\$11.40	25	6mm x 110mm	Sq Plate & Combined Sleeve, Nailing Plate	Black	Orange
DDDGNP6	\$13.80	25	6mm x 110mm	Sq Plate & Combined Sleeve, Nailing Plate	Galvanised	Orange
DDDBLNP10	\$12.00	15	10mm x 110mm	Sq Plate & Combined Sleeve, Nailing Plate	Black	Blue
DDDGNNP10	\$16.00	15	10mm x 110mm	Sq Plate & Combined Sleeve, Nailing Plate	Galvanised	Blue

Also available in Stainless Steel



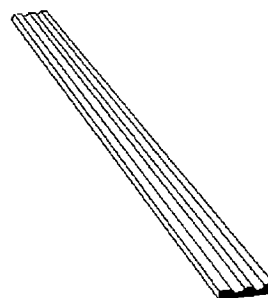
Galintel Steel Lintel

Galintel®

COLD ROLLED SECTIONS GALVANISED

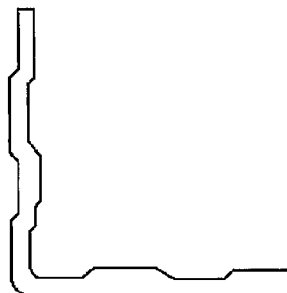
Flat 85mm x 7mm

Product Code	Price Per unit	Length m
SF08	\$15.90	0.8
SF09	\$17.90	0.9
SF10	\$20.10	1.0
SF11	\$22.00	1.1
SF12	\$24.10	1.2



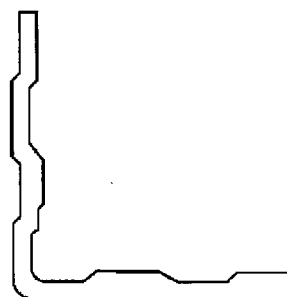
Angle 100mm x 100mm x 6mm

Product Code	Price Per unit	Length m
GRL109	\$34.70	0.9
GRL112	\$46.30	1.2
GRL115	\$57.90	1.5
GRL118	\$69.60	1.8
GRL121	\$80.90	2.1
GRL124	\$92.70	2.4
GRL127	\$104.20	2.7



Angle 130mm x 100mm x 6mm

Product Code	Price Per unit	Length m
GRL218	\$87.60	1.8
GRL221	\$102.30	2.1
GRL224	\$118.00	2.4
GRL227	\$131.40	2.7
GRL230	\$146.00	3.0
GRL233	\$160.50	3.3
GRL236	\$175.30	3.6
GRL240	\$194.60	4.0



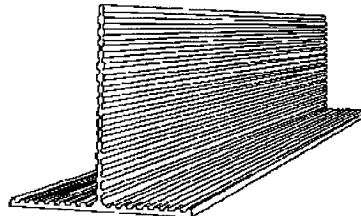
Galintel Steel Lintel

Galintel®

COLD ROLLED SECTIONS GALVANISED

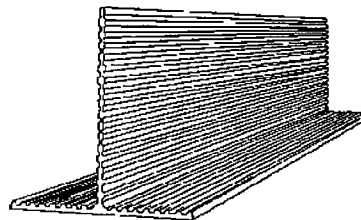
T Bar 200mm x 200mm x 7mm

Product Code	Price Per unit	Length m
TB727	\$300.70	2.7
TB730	\$334.20	3.0
TB733	\$367.40	3.3



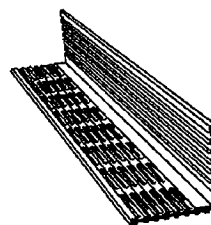
T Bar 200mm x 200mm x 9mm

Product Code	Price Per unit	Length m
TB936	\$453.60	3.6
TB939	\$491.40	3.9
TB942	\$530.00	4.2
TB945	\$567.00	4.5
TB948	\$605.00	4.8
TB951	\$645.00	5.1
TB954	\$683.00	5.4
TB957	\$384.50	5.7



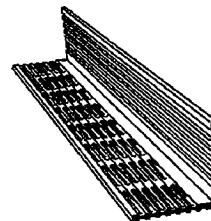
Rendabar 100mm x 100mm x 8mm

Product Code	Price Per unit	Length m
RDB12	\$51.30	1.2
RDB15	\$64.20	1.5
RDB18	\$77.00	1.8
RDB21	\$90.00	2.1
RDB24	\$102.60	2.4



Rendabar 150mm x 100mm x 8mm

Product Code	Price Per unit	Length m
RDBL21	\$117.40	2.1
RDBL24	\$134.20	2.4
RDBL27	\$151.00	2.7
RDBL30	\$167.60	3.0
RDBL33	\$184.40	3.3
RDBL36	\$201.20	3.6

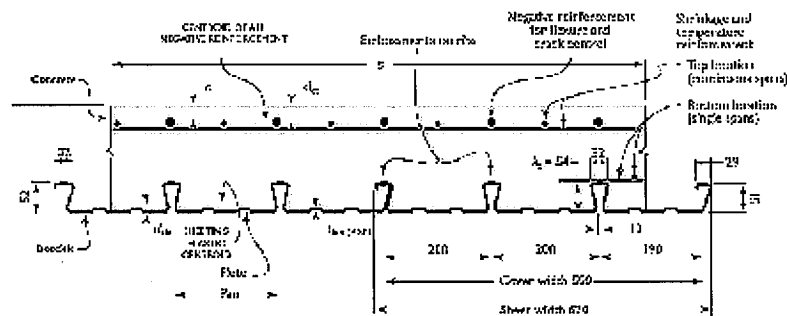


Structural Decking

Bondek		
Product Code	Price Per m2	Product Description
BD60	\$52.80	Domestic Bondek 0.6mm Thick
BD75	\$57.30	Bondek Panels 0.75mm Thick
BD100	\$67.30	Bondek Panels 1.00mm Thick

Lengths less than 1.2 metres will incur a cutting charge of \$1.50 per length.

Bondek Accessory			
Product Code	Price Per unit	Std Unit	Product Description
BEF100	P.O.A.	Metre	Slab Edgeform
BEF125	P.O.A.	Metre	Slab Edgeform
BEF150	P.O.A.	Metre	Slab Edgeform
PLINST	P.O.A.	Each	Plastic Infill Strip



Adelaide Metropolitan areas

Standard Times 10am - 3pm
Other Areas POA

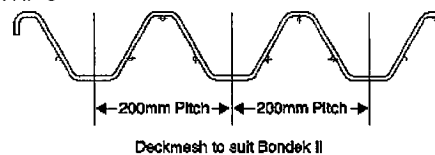
Length		Demurrage	\$215.00
Up to 9m	\$50.00	For a trailer left on site, per day or	
over 9 to 11m	\$77.00	part thereof, a minimum of	
over 11 to 14.5m	\$107.00	Unloading Time	
over 14.5 to 18.5m	\$110.00	Unloading time for site and store deliveries	
(no travel between 7-9am & 4-6pm)		is 60 minutes for a standard drop. If	
		exceeded the extra charged per hour will	
		be	\$70.00
		Delivery Surcharge	
		Saturday	\$325.00
		Sunday	\$365.00
Time		Additional Costs	
Specific or early morning	P.O.A.	Escort costs	P.O.A.
delivery times prior to 7:30 am			

Structural Decking



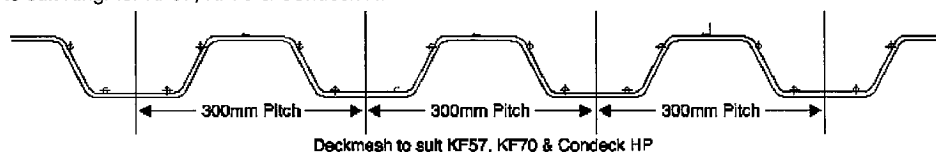
Deckmesh 500 Mpa						
Product Code	Price Per unit	Panel Size mm	Wire Diameter mm	To Suit Deck	Pitch Between Ribs mm	Mass kg
DM200	\$10.50	600 x 450	6	Bonddek II & Condeck HP2	200	
DM300	\$12.80	600 x 450	6	Condeck HP & KF57	300	
DMBON	'n/a'	600 x 450	6	Bondek II	200	2.7
DMCON	\$9.15	600 x 450	6	Condeck HP & KF57	300	2

Deckmesh to suit Bondek II & Condeck HP 3



Deckmesh to suit Condeck HP & KF57

Deckmesh to suit KingFlor KF57, KF70 & Condeck HP

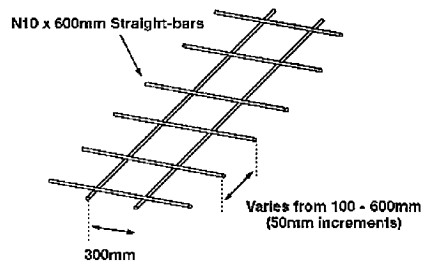


Structural Decking

studmesh

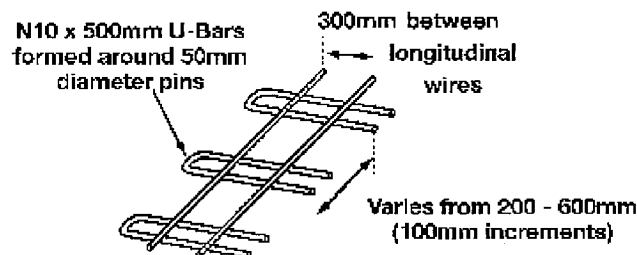
Studmesh Straight Bar - 500MPa						
Product Code	Price Per unit	Sheet Size	Transverse Bar Diameter mm	Transverse Wire Spacing mm	Ab or Asv-1 mm2 per m	Ab or Asv-2 mm2 per m
SMS100	\$31.60	2.4m x 600mm	10	100	800	1600
SMS150	\$26.20	2.4m x 600mm	10	150	533	1066
SMS200	\$27.70	2.4m x 600mm	10	200	400	800
SMS250	\$18.00	2.4m x 600mm	10	250	320	640
SMS300	\$16.80	2.4m x 600mm	10	300	266	532
SMS350	\$15.70	2.4m x 600mm	10	300	228	456
SMS400	\$14.40	2.4m x 600mm	10	350	200	400
SMS450	\$13.30	2.4m x 600mm	10	400	177	354
SMS500	\$12.20	2.4m x 600mm	10	500	160	320
SMS550	\$12.20	2.4m x 600mm	10	550	145	290
SMS600	\$11.00	2.4m x 600mm	10	600	133	266

Longitudinal RW6 Wire Diameter 6mm
 Longitudinal Wire Spacing 300mm



Studmesh U-Bar - 500MPa						
Product Code	Price Per unit	Sheet Size	Transverse Bar Diameter mm	Transverse Wire Spacing mm	Ab or Asv-1 mm2 per m	Ab or Asv-2 mm2 per m
SMU200	\$27.90	2.4m x 500mm	10	200	800	1600
SMU300	\$20.70	2.4m x 500mm	10	300	533	1066
SMU400	\$17.10	2.4m x 500mm	10	400	400	800
SMU500	\$14.80	2.4m x 500mm	10	500	320	640
SMU600	\$13.50	2.4m x 500mm	10	600	266	532

Longitudinal RW6 Wire Diameter 6mm
 Longitudinal Wire Spacing 300mm



Structural Decking

Haunchmesh - Handle Bar - To suit Fielders KF70					
Product Code	Price Per unit	Sheet Size	Handlebar Wire Diameter mm	Handlebar Spacing Pitch mm	Handlebar Height mm
HS100A100F	\$53.60	3m x 500mm	10	100	80
HS100A200F	\$34.50	3m x 500mm	10	200	80
HS100A300F	\$29.20	3m x 500mm	10	300	80
HS100A400F	\$25.00	3m x 500mm	10	400	80
HS150A150F	'n/a'	3m x 500mm	10	150	80
HS150A300F	\$26.00	3m x 500mm	10	300	80
HS150A450F	\$21.80	3m x 500mm	10	450	80



Haunchmesh - Handle Bar - To suit Lysaght W-Dek					
Product Code	Price Per unit	Sheet Size	Transverse Wire Diameter mm	Transverse Wire Spacing mm	Longitudinal Wire Diameter mm
HS100A100L	\$50.40	3M X 500mm	10	100	95
HS100A200L	\$32.80	3M X 500mm	10	200	95
HS150A150L	\$36.60	3M X 500mm	10	150	95
HS150A450L	\$21.00	3M X 500mm	10	450	95

Ironbark Stockyard Mesh



Stockyard Mesh Sheet

For sheep, pig and goat yard

Product Code	Price Per unit	Wire Type	Length m	Height m	Horizontal Spacing	Vertical Spacing	Wire Dia mm	Mass kg
STGLU109	\$41.00	Galv	6	0.9	6 x 100 / 2 x 150	250	5.0 Horz.	11
STG5109	\$49.90	Galv	6	0.9	100	250	5.0	13
STG51011	\$60.70	Galv	6	1.1	100	250	5.0	15
STB569	\$41.00	Bright	6	0.9	100	150	5.0	15
STB5611	\$50.00	Bright	6	1.1	100	150	5.0	18
STG569	\$57.70	Galv	6	0.9	100	150	5.0	15
STG5611	\$65.90	Galv	6	1.1	100	150	5.0	18

Stockyard Mesh Roll

For sheep, pig and goat yard

Product Code	Price Per unit	Wire Type	Length m	Height m	Horizontal Spacing	Vertical Spacing	Wire Dia mm	Mass kg
STGLU109R	\$203.00	Galv	30	0.9	x 100 / 2 x 150	250	5.0 Horz 4.0 Vert.	11
STG5109R	\$236.60	Galv	30	0.9	100	250	5.0	63
STG51011R	\$278.40	Galv	30	1.1	100	250	5.0	76
STB569R	\$242.50	Bright	30	0.9	100	150	5.0	73
STG569R	\$287.50	Galv	30	0.9	100	150	5.0	75
STB5611R	\$249.40	Bright	30	1.1	100	150	5.0	88
STG5615R	\$776.00	Galv	60	1.5	150	150	5.0	194.5
STG5611R	\$328.60	Galv	30	1.1	100	150	5.0	90

Stockyard Mesh

For cattle and larger stock

Product Code	Price Per unit	Wire Type	Length m	Height m	Horizontal Spacing	Vertical Spacing	Wire Dia mm	Mass kg
STHG8812	\$163.70	HD Galv	6	1.2	100	200	8.0	45
STB8812	\$93.70	Bright	6	1.2	100	200	8.0	45
STB8814	\$134.10	Bright	6	1.4	100	200	8.0	51
STG5615	\$87.40	Galv	6	1.5	150	150	5.0	24

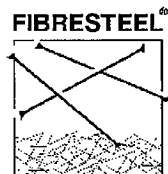
Farm Gate Infill

Product Code	Price Per unit	Width m	Height m	Weight kg
FGI8	\$25.70	2.350	1.1	7
FGI10	\$32.00	2.950	1.1	8
FGI12	\$38.20	3.550	1.1	10
FGI14	\$44.70	4.150	1.1	11
FGI16	\$47.70	4.750	1.1	13

BOSFA Steel Fibres



Steel Fibres				Dramix®
Product Code	Strength MPa	Fibre Description	Aspect Ratio length/equiv.	Carton Mass kg
RC6535BN	1100	Collated 35 x 0.55 Hooked End Wire	65	20
RC6560BN	1100	Collated 60 x 0.9 Hooked End Wire	65	20
RC8060BN	1100	Collated 60 x 0.75 Hooked End Wire	65	15 or 20



Steel Fibres				FIBRESTEEL
Product Code	Strength MPa	Fibre Description Enlarged End	Aspect Ratio length/equiv.	Carton Mass kg
256EE	850	25 x 0.6 x 0.4 mm Steel Fibre	45	20
256EEHT	1100	25 x 0.6 x 0.4 mm HTS	45	20
186EE	850	18 x 0.6 x 0.3 mm Steel Fibre	38	25
186EEHALF	850	18 x 0.6 x 0.3 mm Steel Fibre	38	12.5
184EE	850	18 x 0.4 x 0.3 mm Steel Fibre	46	20

Advantages of Dramix® and FIBRESTEEL® STEEL FIBRES

- * Ductile concrete with high load bearing capacity
- * Enhanced flexural fatigue strength
- * Efficient crack control
- * Durability
- * Easy application
- * Effective cost solution

Applications of Dramix® and FIBRESTEEL® STEEL FIBRES

- ** high toughness applications
- ** high wear and fatigue applications
- ** Shotcrete and slope stabilisation applications
- ** Precast applications
- *** The key to Dramix® Steel Fibres performance is the high aspect ratio (length to diameter ratio).
- *** The key to FIBRESTEEL®L Steel Fibres performance is the high number of fibres per kilogram.

Why use BOSFA Steel Fibres?

1. Distribution - most extensive distribution network through the OneSteel Branches
2. Product range - Widest product and application range
3. Quality - over 25 years of research and development into fibre reinforced concrete
4. Service - From design advice to on-site assistance we have the service and support

Visit our website to receive design information and advice

WWW.BOSFA.COM



1st October 2003

**TERMS AND CONDITIONS OF CONTRACT
FOR SALE OF GOODS AND PROVISION OF WORKS
FOR ALL SALES - QUOTATION & NON-QUOTATION**

OneSteel Reinforcing Pty Limited ABN 22 004 148 289
trading as OneSteel Marner

These Terms and Conditions supersede all previous
Marner Steel & Mesh, OneSteel, & OneSteel Reinforcing Terms and Conditions
Issued prior to 1st October 2003

General

All Goods are supplied and Works provided to Purchasers on the following terms and conditions. No person in the employment or acting otherwise as agent of OneSteel Reinforcing Pty Limited trading as OneSteel Marner or purporting to do so has authority to accept orders and supply Goods or provide Works on any other conditions or to vary these terms in any way whatsoever unless the person has been authorised in writing to perform any or all of these functions by OneSteel Reinforcing Pty Limited.

PART A – GENERAL TERMS AND CONDITIONS APPLICABLE TO BOTH QUOTATION AND NON QUOTATION SALES

1. DEFINITIONS

In these terms and conditions:

"Contract" shall mean the contract created in accordance with clause 2;

"Delivery Offer" shall mean the delivery offer setting out the terms and conditions on which the Supplier delivers Goods, as varied from time to time in writing;

"Goods" shall mean goods, products and materials (and any related Works) supplied by the Supplier under the Contract;

"Purchaser" shall mean the person firm or company that agrees to purchase the Goods or Works;

"Supplier" shall mean OneSteel Reinforcing Pty Limited trading as "OneSteel Marner";

"Working Documents" shall mean architectural drawings, structural drawings, construction drawings, specifications and reinforcement schedules or other documents together with any variation or site instruction and

"Works" shall mean any labour performed and/or services provided by the Supplier under the Contract.

"writing" means

- (a) hard copy, signed by a person authorised in writing; or
- (b) electronic, transmitted by a person authorised in writing.

2. THE CONTRACT

- (a) When a Purchaser accepts these terms and conditions, a Contract is created. Acceptance by a Purchaser can be:
 - (i) by signature and return to the Supplier of a copy of a quotation (where applicable); or
 - (ii) verbally; or
 - (iii) in writing; or
 - (iv) as expressed or implied by virtue of acts done or not done or otherwise.
- (b) That Contract is then wholly documented by (in descending order of precedence) any specific terms agreed by the parties in accordance with clause 4, the quotation (if applicable), these terms and conditions, the relevant Working Documents, the applicable Delivery Offer and the credit terms (if applicable).
- (c) Previous dealings between the Supplier and the Purchaser shall not have any effect on the Contract.
- (d) Trade custom and/or trade usage is superseded by the Contract and are/is applicable in interpretation of the Contract.
- (e) A Contract constitutes the entire agreement between the Supplier and the Purchaser with respect to the Goods supplied or Works provided under the Contract and all prior negotiations, proposals and correspondence are superseded by that Contract.

3. QUANTITIES - Steel Reinforcing

- (a) Generally, the steel mass supplied will be within the tolerances permitted by Australian Standards AS1302, AS1303, AS1304, AS4671, AS3600, AS2870, AS2327 and AS1100.
- (b) When calculating the mass of the steel reinforcing, the Supplier will make calculations on a per metre basis in accordance with AS1302 and AS4671. The Supplier will add a margin of 2.5% onto the calculated mass to cover rolling variations and other costs.
- (c) Calculations with respect to length shall be made in accordance with AS1100 Part 501.

4. VARIATIONS

No purported variation of a Contract will be effective unless it is in writing.

5. WARRANTIES AND LIMITATION OF LIABILITY

- (a) Except to the extent to which conditions and warranties implied by law are not at law able to be excluded, all implied conditions and warranties are excluded. To the extent that any implied conditions and warranties cannot be excluded by contract the Purchaser's sole and exclusive remedy for any damages caused by breach of contract whether direct, indirect, liquidated, special or consequential shall, where permitted at law, be limited to any one of the following, as determined by the Supplier:

In the case of Goods

- (i) The replacement of the relevant Goods or supply of equivalent Goods; or
- (ii) The repair of the Goods; or
- (iii) After prior agreement between the Supplier and the Purchaser, payment of the cost of replacing or repairing or having the goods replaced or repaired.

In the case of Works

- (i) the provision of the Works again; or
- (ii) payment of the cost of having the relevant Works provided again.

- (b) Except as required by law, the Supplier will not be obliged to accept Goods returned for any reason.
 - (c) Subject to the foregoing provisions of this clause and Part VA of the Trade Practices Act 1974 the Supplier shall not be liable to the Purchaser for any loss or damage, whether direct, indirect, liquidated, special or consequential and including loss or damage arising as a result of death or personal injury howsoever caused (including negligence) which the Purchaser or any other person may suffer or incur and which may, without limiting the generality of the foregoing, arise directly or indirectly in respect of:
 - (i) The Goods or any defect therein;
 - (ii) The failure or omission on the part of the Supplier to comply with its obligations under a Contract;
- The failure or the omission on the part of the Supplier or any officer, agent or employee of the Supplier to comply with any obligation imposed by law;
- Or
- (iii) The reckless or negligent conduct or omission of the Supplier or any officer, agent or employee of the Supplier.

6. PAYMENT

- (a) The Purchaser shall not nor be entitled to demand or hold any sum on account of retention for completion of the Contract to be performed by the Supplier or against any pending or unsecured claim against the Supplier. If the Purchaser wrongfully withholds any money as retention money, the Supplier reserves the right to withhold further supply under the Contract or any other contract between the Supplier and the Purchaser.
- (b) Where the Purchaser has an established and approved credit account with the Supplier, the Purchaser shall ensure that payment for the Goods or Works is made to the Supplier in accordance with the credit account. The Supplier reserves the right to charge an administration fee as determined from time to time to cover credit card merchant fees and the Supplier's associated overhead charges.
- (c) Where (b) does not apply, the Purchaser shall ensure that payment for the Goods or Works is made to the Supplier at the time of placement of the order.
- (d) The Supplier reserves the right to charge additional administration fees (such as commercial credit account keeping fees) as determined by the Supplier from time to time.

7. DEFAULT

Should:

- (a) the Purchaser fail to pay any amounts when due under a Contract; or
- (b) the Purchaser default in the performance of any of its obligations under a Contract; or
- (c) the Purchaser, if an individual commit an act of bankruptcy, or if a company become subject to external administration within the meaning of Section 9 of the Corporations Law or pass a resolution to wind up then, in addition to and without prejudice to any rights the Supplier has by law:

Then:

- (d) the Purchaser shall be in breach of contract and the Supplier shall be entitled to treat the whole of the Contract as repudiated;
- (e) the Supplier may refuse to supply the Goods or provide the Works to the Purchaser;
- (f) the Supplier shall be entitled to treat any other contract between the Supplier and the Purchaser as repudiated;
- (g) the Supplier shall be entitled to claim return of any Goods in the possession of the Purchaser where title has not passed to the Purchaser.

8. MONEYS OWING

A statement in writing as to any amount owing under a Contract by the Purchaser on the date mentioned in such statement shall be prima facie evidence that such amount is owing.

9. TAX

- (a) Unless otherwise agreed in writing, the price charged for the Goods shall be (i) exclusive of any transaction tax ("transaction tax" includes the goods and services tax as well as any identified or new transaction taxes that come into existence after the effective date of these Terms and Conditions), and (ii) as per the price ruling as determined by the Supplier at the date of delivery. Any price indications or price lists are subject to alteration in accordance with the price ruling as at that date of delivery.
- (b) Where a transaction tax applies to any supply made under these terms and conditions, the Supplier may recover from the Customer an additional amount on account of that transaction tax.
- (c) Notwithstanding any provision in the Contract, the Supplier may increase the price of Goods after acceptance by the Purchaser pursuant to clause 2(a) and prior to delivery of the Goods if the price increase results from an increase in the price of any inputs which comprise part of the Goods.

10. DELIVERY

- (a) Delivery of Goods will be in accordance with the applicable Delivery Offer. The Delivery Offer is available from the Supplier on request. It is the obligation of the Purchaser to ensure that it is familiar with and observes the Delivery Offer.
- (b) If the Supplier quotes the price as "ex factory" the Supplier shall deliver the Goods at the premises of the Supplier. If the Supplier quotes the price as "delivered", the Supplier shall deliver the Goods to the Purchaser.
- (c) Where the Supplier is required to deliver the Goods to the Purchaser
 - (i) The Purchaser shall nominate the site for delivery in writing to the Supplier prior to the delivery;
 - (ii) The Purchaser will ensure that an area is available which complies with all applicable Occupational Health Safety and Welfare legislation;
 - (iii) The Supplier shall satisfy its obligation by delivering the Goods on a truck at a site adjacent to the Purchaser's job or store; or delivering the Goods on a truck which may be unloaded by a crane to a ground level, flat area of appropriate size to accommodate the Goods.
- (d) Goods will be deemed delivered and unloaded as determined by the Supplier.
- (e) Where the Purchaser does not accept delivery of Goods or allow provision of the Works which it has ordered from the Supplier when the Goods or the Works are ready for delivery or provision by the Supplier, the Purchaser shall be liable for additional charges at the Supplier's then current rates for storage and/or double handling.
- (f) The Supplier will insure the Goods and any packaging whilst the Goods remain at the Supplier's risk.
- (g) If, due to any cause whatsoever, the Supplier is unable to supply particular Goods, the Supplier shall be entitled, at its option, to supply to the Purchaser similar Goods which in the opinion of the Supplier are an appropriate substitute without prior reference to the Purchaser.
- (h) The Purchaser must ensure that its representative is available at the time of delivery to acknowledge delivery by signing a delivery receipt. Where the Purchaser or his representative is not in attendance when the Goods are delivered, the Supplier reserves the right to unload the Goods.
- (i) The Supplier will not be responsible for any claim from the Purchaser arising from or in any way relating to the unloading of the Goods.
- (j) In the event of the Supplier or its officers agents or employees entering upon any property at the actual or the implied request of the Purchaser, the Supplier will not accept any responsibility for any damage suffered by the Purchaser or the Purchaser's officers, agents or employees or to the Purchaser's property.

- (k) In the event that a vehicle engaged in the delivery of Goods to the Purchaser's property is disabled due to the condition of the Purchaser's property, the Purchaser shall be liable for the cost of salvage of the vehicle. The Purchaser shall indemnify the Supplier and keep the Supplier indemnified against any loss or damage suffered by the Supplier or as a consequence of the Supplier becoming liable to any third party directly or indirectly as a result of the Supplier or its officers, agents or employees entering any property at the actual or the implied request of the Purchaser or unloading the Goods.

11. FORCE MAJEURE

If the Supplier is prevented (directly or indirectly) from supplying the Goods or providing the Works or any part thereof by reason of acts of God, strikes, lockouts, trade disputes, fire, breakdowns, delay in the manufacture of the Goods for any reason whatsoever, interruption of transport, government action, non-delivery of raw material or any cause whatsoever (whether or not of a like nature to those specified above) outside its control, the Supplier shall be under no liability whatsoever to the Purchaser and shall be entitled, at its option, to give notice to the Purchaser, either to cancel the Contract or to extend the time for its performance.

12. RISK

The Goods are at the Purchaser's risk from the occurrence of the first in time of the following events:

- (a) Title in the Goods passing to the Purchaser; or
- (b) The delivery of the Goods to the Purchaser; or
- (c) Collection of the Goods by the Purchaser.

13. SHORTAGES

- (a) The Purchaser hereby agrees to check all Goods received immediately upon unloading at their destination. No claim by the Purchaser for shortages or improper or defective or damaged Goods will be recognized by the Supplier unless notified to the Supplier within forty-eight (48) hours of delivery.
- (b) The Supplier will endeavour to rectify inaccuracies or short supply within forty-eight (48) hours of notification, but will not be responsible for any loss or damage (including consequential loss) however caused arising out of or resulting from such inaccuracies or short supply.

14. LEGAL TITLE AND RELATED MATTERS

- (a) The legal and equitable title to the Goods will only be transferred from the Supplier to the Customer when the Customer has met and paid all that is owed to the Supplier on any account whatsoever.
- (b) The Customer acknowledges that until the Customer has met and paid all that is owed to the Supplier on any account whatsoever, the Customer holds the Goods as bailee for the Supplier and that a fiduciary relationship exists between the Customer and the Supplier.
- (c) Until the Supplier receives full payment of all monies due to it from the Customer, the Customer shall keep the Goods separate and in good condition as a fiduciary of the Supplier, clearly showing the Supplier's ownership of the Goods and, shall keep books recording the Supplier's ownership of the Goods and the Customer's sale or otherwise of them in accordance with paragraphs 14(e) and 14(f). The Customer if required, shall deliver the Goods up to the Supplier.
- (d) If the Customer defaults, in addition to the Supplier's rights under clause 7, the Supplier may take possession of the Goods wherever the Goods are located and the Customer agrees that representatives of the Supplier may enter upon the Customer's premises for that purpose.
- (e) Despite paragraph 14(a), the Customer may sell as fiduciary agent for the Supplier the Goods to a third party in the normal course of the Customer's business provided that where the Customer is paid by that third party, the Customer holds the proceeds of sale to the extent of the amount owing by the Customer to the Supplier at the time of receipt of such proceeds on trust for the Supplier. The Customer must keep those proceeds separate on trust for the Supplier and not mix those proceeds with any other monies.
- (f) If the Customer uses the Goods in some manufacturing or construction process of its own or some third party, then the Customer shall hold such part of the proceeds of such manufacturing or construction process as related to the Goods on trust for the Supplier. Such part shall be deemed to equal in dollar terms the amount owing by the Customer to the Supplier at the time of the receipt of such proceeds. The Customer must keep that part of the proceeds separate on trust for the Supplier and not mix those proceeds with any other monies.

Notwithstanding the above, the Customer is still required to pay the Supplier for Goods already delivered and for Goods manufactured or ordered to specification and not yet delivered.

15. NOTICE

- (a) Notice under a Contract can only be in writing.
- (b) Notice can only be given to a party:
 - (i) personally;
 - (ii) by registered post to the last known place of business or residence or registered office. Such notice is deemed to be received at the time at which the letter will be delivered in the ordinary course of post;
 - (iii) by facsimile transmission to the last known facsimile number. Such notice is deemed to be received when the sending machine confirms notice has been sent.
 - (iv) by electronic transmission. Such notice is deemed to be received when the sending machine confirms notice has been sent.

16. GOVERNING LAW

A Contract is governed by the laws in the state of New South Wales and the courts of that jurisdiction have exclusive jurisdiction in connection with the Contract.

17. NO ASSIGNMENT

- (a) A party must not assign its benefits or obligations under a Contract without the prior consent in writing of the other party.
- (b) A party must not unreasonably withhold its consent to an assignment.

18. NO WAIVER

A party waives a right under a Contract only by notice that it waives that right.

19. SEVERANCE

If a provision of a Contract would, but for this clause, be unenforceable:

- (a) the provision must be read down to the extent necessary to avoid that result;
- (b) if the provision cannot be read down to that extent, it must be severed without affecting the validity and enforceability of the remainder of the Contract.

20. DISPUTE RESOLUTION

- (a) If there is a dispute or disagreement between the Supplier and the Purchaser arising in any way from or in relation to a Contract, then the Supplier and the Purchaser will use all reasonable endeavours and reasonably appropriate alternative dispute resolution procedures as soon as possible before resorting to litigation.
- (b) Nothing in this clause prevents a party seeking urgent interlocutory relief from a court or requires that party to participate in informal resolution processes for longer than 30 days after a dispute has arisen.

21. CONFIDENTIALITY

The Supplier and the Purchaser agree that a Contract and any other information furnished by one party to the other pursuant to the Contract shall be and remain confidential between the parties and the parties shall not disclose the same, or permit or cause the same to be disclosed, either directly or indirectly, to any third party unless:

- (a) Prior approval in writing has been obtained from the other party;
- (b) Disclosure is required by law or;
- (c) The information is in the public domain prior to the disclosure by the party.

The expression "any third party" does not include the financial or legal advisers of a party or a related body corporate of a party.

22. PURCHASER'S INDEMNITY

The Purchaser indemnifies the Supplier against all claims and all costs, liabilities and expenses incurred by the Supplier as a result of:

- (a) Working Documents prepared by the Purchaser or a third party; or
- (b) any other documents provided by the Purchaser to the Supplier for purposes of or in the course of the supply of Goods or provision of Works breaching a third party's intellectual property rights.

23. ESCALATION

A price may be subject to escalation after the price has been accepted by the Purchaser. The Supplier may increase an accepted price during the term of supply of the Goods and/or Works where it incurs an increase in costs to its production or cartage, which increase shall be termed an "escalation".

PART B. APPLICABLE FOR QUOTATION (PROJECT) CONTRACTS ONLY

1. QUOTATION

- (a) A quotation shall be open for acceptance by the Purchaser for a period of one (1) calendar month from the date of quotation, unless such quotation is previously withdrawn by notice from the Supplier.
- (b) The Supplier reserves the right to requote for the whole or any part of the project which has not been performed within twelve months of the date of the quotation.
- (c) The Supplier reserves the right to increase the price if supply of Goods and/or Works to the project does not start within thirty (30) days of the Supplier confirming the prices in writing to the Purchaser in a document called the "Confirmation of Contract". Prices may also be increased should the project be stopped for more than thirty (30) days.
- (d) If a project is in any way redesigned before, during or after commencement of supply, the Supplier reserves the right to revise the prices applicable to the project.
- (e) The Supplier reserves the right to charge for estimating costs

2. EXTRAS

- (a) Unless noted in the quotation, the price quoted does not include the following items:
 - tie wire
 - bar chairs
 - threading
 - saw cutting
 - mechanical splices
 - welding of any nature
 - blacksmithing
 - press work
 - screwing or butt welding
 - assembly of reinforcing bars
 - supply of bars exceeding lengths of ten metres or exceeding diameter of 36mm
 - brickwork reinforcing and holding down bolts
 - galvanizing or non site scheduling
 - such other items as are nominated on the front of the quotation
- (b) Where the Supplier notes on the quotation that prefabricated elements, BAMTEC carpets, TRUSSDEK, engineered manufactured items and steel fixing are included, this does not mean (unless expressly stated also) that the quoted price includes:
 - (i) lifting or lowering to position on site;
 - (ii) costs associated with site scaffolding; or
 - (iii) welding of lifting points, or site welding
- (c) The Purchaser shall give the Supplier forty-eight (48) hours notice to arrange site fixing.
- (d) Unless otherwise specified in the quotation, the Supplier's price is based on a normal five (5) day working week.
- (e) The price quoted is subject to the Purchaser taking delivery of the whole amount of the Goods.

3. INVOICED QUANTITIES

Unless the Supplier has indicated in the quotation that the price quoted is a lump sum, the Supplier's price is based on estimated quantities of Goods and Works per tonne or per hour as applicable and the Purchaser will be liable to pay for the actual quantity of Goods and the quantum of the Works necessary for the Supplier to perform its obligations. Any adjustment in the actual price compared to the quoted price will be reflective of the increase or decrease of the Goods or Works supplied or provided.

4. WORKING DOCUMENTS

- (a) The Supplier accepts no responsibility for the correctness of Working Documents prepared by the Purchaser or a third party.
- (b) Unless otherwise agreed, the Purchaser shall deliver all Working Documents without charge to the Supplier prior to commencement of the Works.
- (c) Should errors occur as a result of Working Documents prepared by the Purchaser or a third party, the Purchaser shall be liable for the cost of rectification.
- (d) All Working Documents shall remain in the custody and control of the Supplier.
- (e) A quotation does not include any design fee for Working Documents to be prepared by the Supplier. The Purchaser shall pay the Supplier's design fee immediately such Working Documents are prepared.
- (f) The Supplier shall provide two (2) copies of Material Processing Supply Schedules only.
- (g) Distribution steel shall be provided in stock lengths unless alternative requirements are fully detailed on Working Documents.
- (h) Unless authorised in writing, neither the Purchaser or any third party is authorised to reproduce, adapt or use in any manner whether part or whole any Working Documents prepared by the Supplier (whether prepared on a fee paying basis or not). Any unauthorised reproduction, adaptation or use may be, among other things, a breach of copyright and actionable by the Supplier.
- (i) The Supplier reserves the right to charge for electronic copies of Working Documents (drawings sent by e-mail).

OneSteel Reinforcing Pty Limited ABN 22 004 148 289 trading as OneSteel Marnar
Cavan Service Centre: 519 Cross Keys Road, Cavan SA 5094 Phone: 08 8349 8666 Fax: 08 8349 7555
Regency Park Service Centre: 40-42 Tikalara Street, Regency Park SA 5010 Phone: 08 8346 6187 Fax: 08 8346 6180
Email: onesteelmarner@reinforcing.com Website: www.reinforcing.com

Exhibit 3 – Quality Certificates (S420)

**CONTAINS CONFIDENTIAL INFORMATION
WHICH IS NOT AMENABLE TO PUBLIC SUMMARIZATION**

Exhibit 4 – Turkish Market Prices

10.03.2015 Steel Prices

www.demirfiyatlari.com

CITY	Q8 mm		Q10 mm		Q12 mm ve Q32 mm arası	
Ankara	1,460,00 TL	⊕	1,450,00 TL	⊕	1,440,00 TL	⊕
Karabük	1,405,00 TL	⊕	1,405,00 TL	⊕	1,395,00 TL	⊕
İskenderun	1,410,00 TL	⊕	1,400,00 TL	⊕	1,390,00 TL	⊕
İstanbul	1,435,00 TL	⊕	1,425,00 TL	⊕	1,415,00 TL	⊕
Gebze	1,450,00 TL	⊕	1,440,00 TL	⊕	1,440,00 TL	⊕
İzmir	1,415,00 TL	⊕	1,400,00 TL	⊕	1,390,00 TL	⊕
Sivas					1,400,00 TL	⊕
Biga	1,420,00 TL	⊕	1,410,00 TL	⊕	1,400,00 TL	⊕
Samsun	1,460,00 TL	⊕	1,450,00 TL	⊕	1,440,00 TL	⊕
Tekirdağ	1,450,00 TL	⊕	1,450,00 TL	⊕	1,430,00 TL	⊕
Kırıkkale					1,420,00 TL	⊕

Demir Hayat Arşivi

Aşağıdaki fiyat bilgileri genel fiyat trendini göstermek için Demir Hayat Arşivi'nin Türkiye fiyat ortalamaları alınarak hazırlanmıştır.

GÜNCEL FİYATLAR

<http://www.cangul.com/demirfiyatlari.htm>

Bu liste 11.03.2015 Updated at 11.03.2015

Construction Rebar	City	ÇIKIŞ BÖLGESİ	ANKARA	KARABÜK	İSTANBUL	İZMİR	İSKENDERUN	SİVAS	BİGA
8 mm İnşaat Demiri			1,460 TL	1,400TL	1,430 TL	1,425 TL	1,405 TL	0,000TL	1,425 TL
10 mm İnşaat Demiri			1,450 TL	1,400 TL	1,430 TL	1,410 TL	1,395 TL	0,000 TL	1,415 TL
12 - 32 mm İnş. Dem.			1,440TL	1,390 TL	1,410 TL	1,400 TL	1,385 TL	1,390 TL	1,405 TL

Steel Prices

demir.finansx.com

Veriler en son 11 Mart 2015 Updated at

FİYAT TABLOSU

Tablodaki fiyatlar, çıkış bölgesine göre satış yapan firmaların yaklaşık ortalama değerleridir.

Diameter	İSKENDERUN	ANKARA	KARABÜK	İSTANBUL	İZMİR	SİVAS	SAMSUN
0.8 CM / 1 TON	1,405 TL	1,460 TL	1,400TL	1,430 TL	1,425 TL	0,000TL	1,425 TL
1.0 CM / 1 TON	1,395 TL	1,450 TL	1,400 TL	1,430 TL	1,410 TL	0,000 TL	1,415 TL
1.2 CM / 1 TON	1,385 TL	1,440TL	1,390 TL	1,410 TL	1,400 TL	1,390 TL	1,405 TL

Export@lme.com.tr

İllere Göre

<http://www.lme.com.tr/>
Construction Rebar

Ürün Adı	İstanbul	Ankara	İzmir	Bursa	Adana	Gaziantep	Kayseri	Konya	Antalya	Mersin	Diyarbakır	Eskişehir	Denizli	Samsun	Manisa
8-10 mm inşaat demiri	1,420	1,440	1,380	1,430	1,410	1,420	1,420	1,420	1,450	1,450	1,450	1,430	1,460	1,490	1,410
12-32 mm inşaat demiri	1,430	1,420	1,370	1,410	1,390	1,400	1,410	1,410	1,420	1,420	1,430	1,410	1,440	1,510	1,390

Çelik hasır demir fiyatı Ø 5 mm 1.510 tl / kg + KDV İSTANBUL-İSKENDERUN-GEBZE FABRİKA TESLİM.

Çelik hasır demir fiyatı Ø 6 mm 1.530 tl / kg + KDV İSTANBUL-İSKENDERUN-GEBZE FABRİKA TESLİM.



Steel Prices

11.03.2015

İSTANBUL

Thick

● Kalın 1400 TL

10mm

● 10'luk 1410 TL

8mm

● 8'lik 1420 TL

İnşaat Demir Fiyatları

Construction Rebar Prices

www.aksoydemir.com

Municipalities	12 +	8
Alibeyköy	1,440	1,460
Altınşehir	1,442	1,462
Arnavutköy	1,440	1,460
Ataşehir	1,455	1,475
Avcılar	1,440	1,460
Babaeski	1,465	1,485
Bağcılar	1,450	1,470
Bahçelievler	1,440	1,460
Bakırköy	1,452	1,472
Başakşehir	1,440	1,460
B.Paşa	1,440	1,460
Beşiktaş	1,452	1,472

Exhibit 5 – Jindal Steel Price List



JINDAL
PANTHER™
TMT REBARS

JINDAL PANTHER TMT Fe 500D

Price List for Delhi (w.e.f. 06-03-15)

FOR MARCH 2015

SECTION	MRRP (per piece)
6 mm	₹ 145
8 mm	₹ 248
10 mm	₹ 372
12 mm	₹ 520
16 mm	₹ 939
20 mm	₹ 1469
25 mm	₹ 2289
28 mm	₹ 2872
32 mm	₹ 3752

Note:

1. The prices are inclusive of all taxes & on cash basis
 2. Fixed length of 12 meters
 3. All dimensional tolerances as per BIS Standards
 4. Delivery: *Free home delivery for a minimum order quantity of 1 MT
- *Within Municipal Limits



A PRODUCT OF JINDAL STEEL & POWER LTD.

Toll Free No. 1800-208-2008

r	L	$V = 4/3 * \pi * r^3 / 1000000$	D	$W = D * V$	P	$PP = P / W$
Diameter (mm)	Lenght (mm)	Volume (m3)	Density (kg/m3)	Weight (kg)	Price (INR)	Price per KG (INR/kg)
6	1200	0.000151	7,850	1.1832	145.00	122.55
8	1200	0.000268	7,850	2.1034	243.00	115.53
10	1200	0.000419	7,850	3.2865	372.00	113.19
12	1200	0.000603	7,850	4.7326	528.00	111.57
16	1200	0.001072	7,850	8.4135	939.00	111.61
20	1200	0.001675	7,850	13.1461	1,469.00	111.74
25	1200	0.002617	7,850	20.5408	2,289.00	111.44
28	1200	0.003282	7,850	25.7664	2,872.00	111.46
32	1200	0.004287	7,850	33.6541	3,752.00	111.49