Vincent Buda & Co.

TRUST THE BUDA SINCE 1957

BUDABAR Load Tables

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Flat Bar (75mm x 10mm)

Controlling Parameter															
Span (mm)	**600**	**700**	**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**	**1600**	**1700**	**1800**	**1900**	**2000**
Bar Length (mm)	800	900	1000	1100	1200	1300	1400	1600	1700	1800	1900	2000	2100	2200	2300
Max UDL (kg/m)	471.9	346.7	265.5	209.7	169.9	140.4	118.0	100.5	86.7	75.5	66.4	58.8	52.4	47.1	42.5

- The Buda B and R bars are imported from China, material used is Q235B, and here Q stands for yielding. According to PRC National Standard GB700-88(previous version GB700-79 part A3 & C3), the minimum yielding point is 235Mpa for thicknesses less than 17mm, tensile strength is between 375-400MPa.
- The B and R bars are simply supported at both ends.
- The B and R bars loaded such that the load acts vertically and equally on both sides of the web.
- Loads given are total (allowable) loads including lintel and brickwork.
- UDL loads are constant along the length of the bar.
- Point loads act at mid-span.
- 150mm minimum bearing support on to brickwork.
- Hot-dip galvanising to AS / NZS 4680:2006.
- Loads are in accordance with AS / NZS 1170.1:2002.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Flat Bar (100mm x 10mm)

Controlling Parameter										
Span (mm)	**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**	**1800**	**2000**
Bar Length (mm)	1000	1100	1200	1300	1400	1600	1700	1800	2100	2300
Max UDL (kg/m)	354.0	279.7	226.5	187.2	157.3	134.0	115.6	100.7	69.9	56.6

- The Buda B and R bars are imported from China, material used is Q235B, and here Q stands for yielding. According to PRC National Standard GB700-88(previous version GB700-79 part A3 & C3), the minimum yielding point is 235Mpa for thicknesses less than 17mm, tensile strength is between 375-400MPa.
- The B and R bars are simply supported at both ends.
- The B and R bars loaded such that the load acts vertically and equally on both sides of the web.
- Loads given are total (allowable) loads including lintel and brickwork.
- UDL loads are constant along the length of the bar.
- Point loads act at mid-span.
- 150mm minimum bearing support on to brickwork.
- Hot-dip galvanising to AS / NZS 4680:2006.
- Loads are in accordance with AS / NZS 1170.1:2002.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Flat Bar (85mm x 7mm)

Controlling Parameter						
Span (mm)	**600**	**700**	**800**	**900**	**1000**	**1100**
Bar Length (mm)	800	900	1000	1100	1200	1300
Max UDL (kg/m)	243	178	135	106	85	70

- The Buda B and R bars are imported from China, material used is Q235B, and here Q stands for yielding. According to PRC National Standard GB700-88(previous version GB700-79 part A3 & C3), the minimum yielding point is 235Mpa for thicknesses less than 17mm, tensile strength is between 375-400MPa.
- The B and R bars are simply supported at both ends.
- The B and R bars loaded such that the load acts vertically and equally on both sides of the web.
- Loads given are total (allowable) loads including lintel and brickwork.
- UDL loads are constant along the length of the bar.
- Point loads act at mid-span.
- 150mm minimum bearing support on to brickwork.
- Hot-dip galvanising to AS / NZS 4680:2006.
- Loads are in accordance with AS / NZS 1170.1:2002.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar B- Bars

Controlling Parameter								
Designation	Mass/ Metre	Gross Section Area	About x-axis		About x-axis		About n-axis	About p-axis
	Kg/m	Ag mm^2	Ix 10^6 mm^4	Zx 10^3 mm^3	Iy 10^6 mm^4	Zy 10^3 mm^3	In 10^6 mm^4	Ip 10^6 mm^4
100 X 100 X 6.0 B-Bar	8.19	1164	1.83	25.84	0.46	11.97	1.14	1.14
150 X 100 X 6.0 B-Bar	10.53	1464	4.05	39.4	0.72	13.39	3.49	1.29

Budabar – B Bar: Australian designed light weight lintels used for supporting brickwork over openings. Features are:

- Hot Dip Galvanised to **AS/NZ 4680:2006**
- R3 Durability Rating in accordance with **AS/NZS 2699:2002**
- Load Tested in accordance with **AS/NZS 1170.1:2002**
- Light Weight in comparison to tradition lintels.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

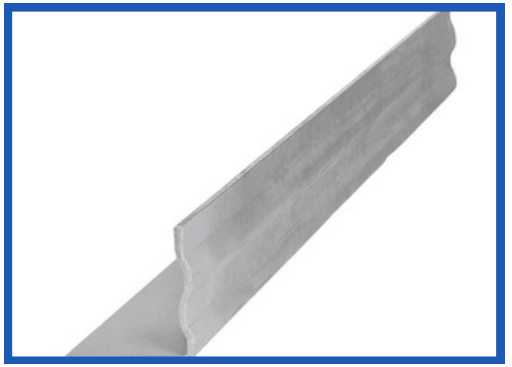
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar B- Bar 100 X 100 X 6 - 9.42 Kg/m

Controlling Parameter							
Span (mm)	**900**	**1200**	**1500**	**1800**	**2100**	**2400**	**2700**
Bar Length (mm)	1200	1500	1800	2100	2400	2700	3000
Max UDL (kg/m)	2550	1520	995	**601**	**390**	**260**	**182**
Point Load (kg)	1350	1035	805	**655**	**535**	**415**	**325**

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Calculate bar length is span+150mm each end.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

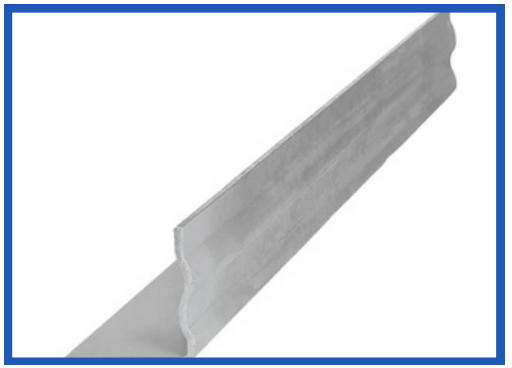
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar B- Bar 150 X 100 X 6 - 11.78 Kg/m

Controlling Parameter								
Span (mm)	**1800**	**2100**	**2400**	**2700**	**3000**	**3300**	**3600**	**4000**
Bar Length (mm)	2100	2400	2700	3000	3300	3600	3900	4300
Max UDL (kg/m)	1320	945	705	525	**375**	**275**	**210**	**155**
Point Load (kg)	1301	1050	875	758	645	555	495	**415**

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Calculate bar length is span+150mm each end.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar R- Bars

Controlling Parameter								
Designation	Mass/ Metre	Gross Section Area	About x-axis		About x-axis		About n-axis	About p-axis
	Kg/m	Ag mm^2	Ix 10^6 mm^4	Zx 10^3 mm^3	Iy 10^6 mm^4	Zy 10^3 mm^3	In 10^6 mm^4	Ip 10^6 mm^4
100 X 100 X 6.0 Renda Bar	7.92	942	1.36	18.78	0.38	8.82	0.98	0.75
150 X 100 X 6.0 Renda Bar	9.75	1242	3.26	34.33	0.53	9	2.97	0.82

Budabar – R Bar: Australian designed light weight lintels suitable for applications where a Render Finish is required and the lintel is used for supporting brickwork over openings. Features are:

- Light weight when compared to Concrete/Brick Lintels
- Cost advantages over other Render lintels.
- Hot Dip Galvanised to **AS/NZ 4680:2006**
- R3 Durability Rating in accordance with **AS/NZS 2699:2002**
- Load Tested in accordance with **AS/NZS 1170.1:2002**
- Australian Design Mark No. 201215561

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Buda R- Bar 100 X 100 X 6 - 7.92 Kg/m

Controlling Parameter						
Span (mm)	**900**	**1200**	**1500**	**1800**	**2100**	**2400**
Bar Length (mm)	1200	1500	1800	2100	2400	2700
Max UDL (kg/m)	1950	1145	**755**	**435**	**285**	**185**
Point Load (kg)	1015	775	605	505	**405**	**305**

Note:

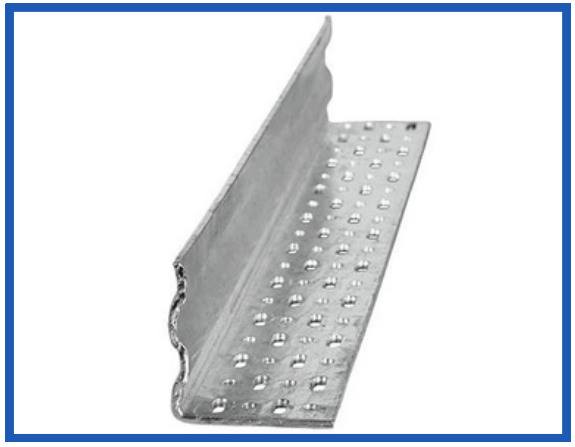
1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Buda R- Bar 150 X 100 X 6 - 9.75 Kg/m

Controlling Parameter							
Span (mm)	**1800**	**2100**	**2400**	**2700**	**3000**	**3300**	**3600**
Bar Length (mm)	2100	2400	2700	3000	3300	3600	3900
Max UDL (kg/m)	1035	715	**475**	**335**	**247**	**185**	**145**
Point Load (kg)	1005	825	686	585	**505**	**405**	**342**



Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Hot Rolled Angles- 100x100x8mm- 12kg/m

Controlling Parameter					
Span (mm)	**900**	**1200**	**1500**	**1800**	**2100**
Bar Length (mm)	1200	1500	1800	2100	2400
Max UDL (kg/m)	1337	752	482	334	245
Point Load (kg)	600	448	358	300	255

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Hot Rolled Angles- 150x100x10mm- 19kg/m

Controlling Parameter							
Span (mm)	**1800**	**2100**	**2400**	**2700**	**3000**	**3300**	**3600**
Bar Length (mm)	2100	2400	2700	3000	3300	3600	4000
Max UDL (kg/m)	1781	1121	751	527	384	289	222
Point Load (kg)	1690	1325	1010	800	645	535	450

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of [redacted] 1/600 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bars

Controlling Parameter					
Designation Flange= Horizontal (H) mm Web= Vertical(V) mm	**Mass/ Metre**	**Gross Section Area**	**About x-axis**		**About x-axis**
	Kg/m	**Ag mm^2**	**Ix 10^6 mm^4**	**Zx 10^3 mm^3**	**Iy 10^6 mm^4**
200x6(H)+200x6(V)	18.84	2400	10.4	32	4.003
200x6(H)+200x8(V)	21.98	2800	12.6	72	4.009
200x6(H)+200x10(V)	25.12	3200	14.6	115	4.017
200x10(H)+200x10(V)	31.4	4000	17.7	127	6.69

Budabar – T Bar: Australian designed T Bars used for supporting brickwork over openings. Features are:

- Hot Dip Galvanised to **AS/NZ 4680:2006**
- R3 Durability Rating in accordance with **AS/NZS 2699:2002**
- Load Tested in accordance with **AS/NZS 1170.1:2002**
- Fully welded and not reliant upon composite action.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bar 200x6(H)+200x6(V)- 18.84 Kg/m

Controlling Parameter						
Span (mm)	**1800**	**2100**	**2400**	**2700**	**3000**	**3300**
Bar Length (mm)	2100	2400	2700	3000	3300	3600
Max UDL (kg/m)	1015	750	585	468	375	310
Point Load (kg)	995	843	745	668	600	535

Budabar – T Bar: Australian designed T Bars used for supporting brickwork over openings. Features are:

- Hot Dip Galvanised to **AS/NZ 4680:2006**
- R3 Durability Rating in accordance with **AS/NZS 2699:2002**
- Load Tested in accordance with **AS/NZS 1170.1:2002**
- Fully welded and not reliant upon composite action.

Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

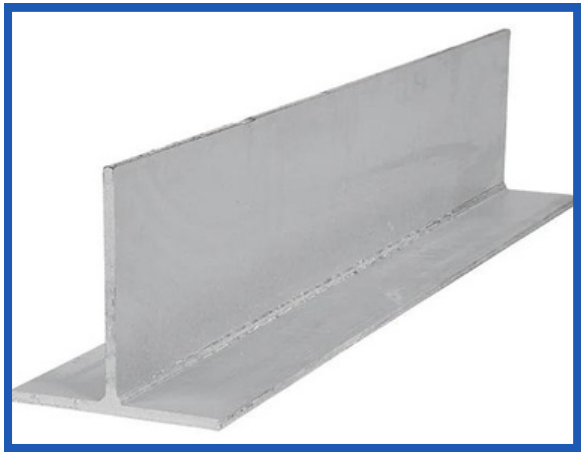
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bar 200x6(H)+200x8(V)- 21.98 Kg/m

Controlling Parameter						
Span (mm)	**2400**	**2700**	**3000**	**3300**	**3600**	**3900**
Bar Length (mm)	2700	3000	3300	3600	3900	4200
Max UDL (kg/m)	1350	1065	870	725	605	515
Point Load (kg)	1715	1525	1375	1255	1135	1050

Budabar – T Bar: Australian designed T Bars used for supporting brickwork over openings. Features are:

- Hot Dip Galvanised to **AS/NZ 4680:2006**
- R3 Durability Rating in accordance with **AS/NZS 2699:2002**
- Load Tested in accordance with **AS/NZS 1170.1:2002**
- Fully welded and not reliant upon composite action.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

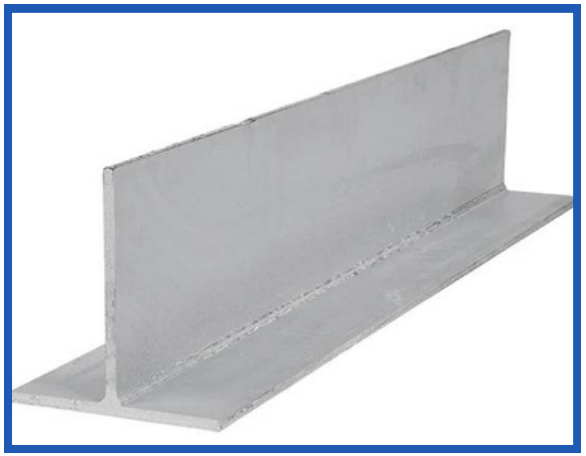
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bar 200x6(H)+200x10(V)- 25.12 Kg/m

Controlling Parameter								
Span (mm)	3600	3900	4200	4500	4800	5100	5400	5700
Bar Length (mm)	3900	4200	4500	4800	5100	5400	5700	6000
Max UDL (kg/m)	825	650	515	410	345	280	230	195
Point Load (kg)	1825	1635	1415	1210	1065	915	805	715

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/500 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

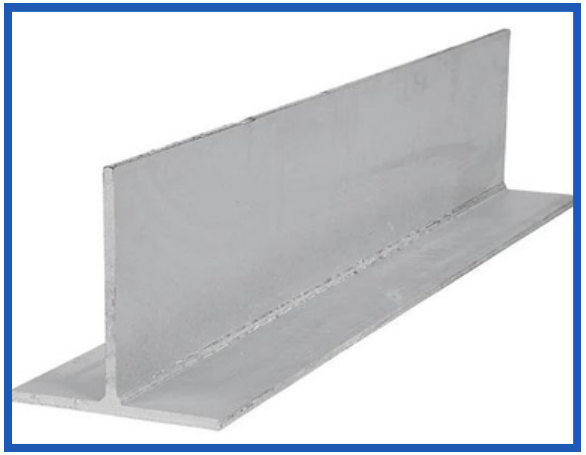
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bar 200x10(H)+200x10(V)- 31.40 Kg/m

Controlling Parameter							
Span (mm)	**3600**	**3900**	**4200**	**4500**	**4800**	**5100**	**5400**
Bar Length (mm)	3900	4200	4500	4800	5100	5400	5700
Max UDL (kg/m)	980	828	703	580	**480**	**385**	**320**
Point Load (kg)	2015	1865	**1685**	**1475**	**1280**	**1125**	**1075**

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/500 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

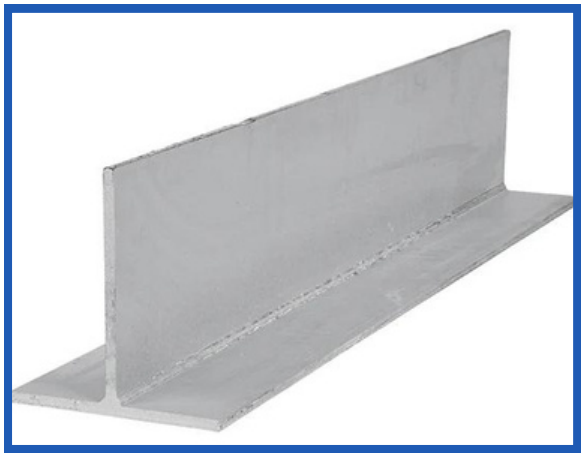
82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Budabar T- Bar 200x10(H)+200x10(V)- 31.40 Kg/m

Controlling Parameter						
Span (mm)	5700	6000	6300	6600	6900	7200
Bar Length (mm)	6000	6300	6600	6900	7200	7500
Max UDL (kg/m)	265	228	190	165	140	116
Point Load (kg)	990	865	775	685	620	550

Note:

1. a minimum of three courses of bricks must be laid above the lintel beam.
2. Load limited by deflection of 1/500 span.
3. Yielding stress fy=235 Mpa, tensile strength fu=375Mpa for both legs.
4. Mass per metre calculation is based on 7850kg/m^3.
5. Calculate bar length is span+150mm each end.



Vincent Buda & Co.
TRUST THE BUDA SINCE 1957

82-88 BenaroonRoad,
Lakemba, 2195 NSW
www.buda.com.au
sales@buda.com.au
(02) 9740 1500

Notes on Safe Load Tables for Budabar-T-Bars

- The Buda-T-Bar is imported from China, material used is Q235B, Q235 material is in accordance with PRC standard GB 700(previous version GB700-79 part A3 & C3), and here Q stands for yielding. According to PRC National Standard GB700-88, the minimum yielding point is 235Mpa for thicknesses less than 17mm, tensile strength is between 375-400MPa, E=200~210 GPa.
- The Buda-T-Bar is simply supported at both ends.
- The Buda-T-Bar is loaded such that the load acts vertically and equally on both sides of the web.
- The Buda-T-Bar is considered as being laterally unrestrained for the full span length.
- UDL loads are constant along the length of the bar.
- Point loads act at mid-span.
- 150mm minimum bearing support on to brickwork.
- Hot-dip galvanising to AS / NZS 4680:2006.
- Loads are in accordance with AS / NZS 1170.1:2002

Notes on Safe Load Tables for Budabar B & R Bars

- The Buda B and R bars are imported from China, material used is Q235B, and here Q stands for yielding. According to PRC National Standard GB700-88(previous version GB700-79 part A3 & C3), the minimum yielding point is 235Mpa for thicknesses less than 17mm, tensile strength is between 375-400MPa.
- The B and R bars are simply supported at both ends.
- The B and R bars loaded such that the load acts vertically and equally on both sides of the web.
- Loads given are total (allowable) loads including lintel and brickwork.
- UDL loads are constant along the length of the bar.
- Point loads act at mid-span.
- 150mm minimum bearing support on to brickwork.
- Hot-dip galvanising to AS / NZS 4680:2006.
- Loads are in accordance with AS / NZS 1170.1:2002.