



BANSAL STEEL TRADERS LLP

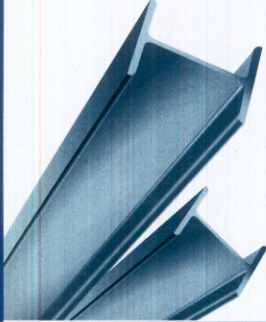
AUTHORISED DISTRIBUTOR OF STRUCTURALS

AUTHORISED DISTRIBUTOR



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED

DISTRIBUTOR CERTIFICATE





स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED



NEX
From SAIL
Structurally Ahead
There's a little bit of SAIL in everybody's life

DISTRIBUTOR CERTIFICATE

M/s **BANSAL STEEL TRADERS LLP (Earlier, Bansal Steel Traders)**

is a appointed distributor of SAIL for product catagories: **STRUCTURALS**

for jurisdiction of **HARYANA** Validity of distributorship is

from **01-04-2026** to **31-03-2027**



(Signature)

संकेतित (संकेत) एवं निदेश प्रदान / Distribution of SAIL
स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
निकाश निदेश संकेत नं. 02, वाराणसी, उत्तर प्रदेश
Regional Sales Office - Post No. 02, Varanasi, U.P.
Date: 01-04-2026

BANSAL STEEL TRADERS LLP- Authorised Distributor of SAIL Structural

A Legacy of Trust, Strength and Excellence in Steel

About Us

Bansal Steel Traders LLP (BST) is an established Distributor of Structural Steel Products of Steel Authority of India Limited (SAIL), backed by over four decades of experience in the steel industry.

BST traces its origins to the 1980s, when it was established as a fabrication firm by Late Sh. Mohan Lal Bansal. The business was subsequently carried forward by Sh. Mukesh Bansal, whose vision, dedication and longstanding association with SAIL marked an important phase in the growth of the organisation. Under his leadership, the firm transitioned from fabrication to bulk steel trading, steadily expanding its operations and establishing a strong presence in the structural steel industry.

With over 40 years of industry experience, Bansal Steel Traders LLP has built its business on the principles of integrity, reliability, professionalism and commitment to customers. Today, the company handles substantial quantities of SAIL structural steel products and serves the requirements of traders, fabricators, industrial consumers, contractors and infrastructure projects.

One of BST's key strengths is its ability to maintain a substantial and diversified inventory of SAIL structural steel products. Strong inventory management, established sourcing capabilities and an efficient distribution network enable the company to cater to both regular and large-volume requirements while ensuring dependable availability and timely supply.



Late Sh. Mohan Lal Bansal



Mr. Mukesh Bansal



BANSAL STEEL TRADERS LLP

हमारा हर कदम, सेल रहे हमेशा प्रथम

AUTHORISED DISTRIBUTOR OF SAIL STRUCTURALS

Association with SAIL

Bansal Steel Traders LLP takes pride in its longstanding association with Steel Authority of India Limited (SAIL), one of India's foremost steel producers.

As a Authorised Distributor and Channel Partner of SAIL for Structural Steel Products, BST offers an extensive range of SAIL structural sections, including conventional structural products as well as NEX/Parallel Flange Sections such as NPB, WPB, UB and UC.

Having been recognised and acknowledged by SAIL management on various occasions, BST continues to strengthen its association with SAIL through consistent performance, substantial offtake and a commitment to making SAIL structural steel products readily available to customers across the market.

Serving Trade, Industry & Infrastructure

Bansal Steel Traders LLP caters to a broad spectrum of customers, ranging from steel traders and fabricators to industrial consumers, contractors and major infrastructure projects.

Over the years, the company has supplied SAIL structural steel for requirements associated with railways, flyovers, power plants, construction projects and other major infrastructure developments. BST has also contributed material to several national and state-level projects, demonstrating its capability to handle demanding and large-volume steel requirements.

Our Product Portfolio

As a distributor of SAIL Structural Steel Products, Bansal Steel Traders offers a comprehensive range including:

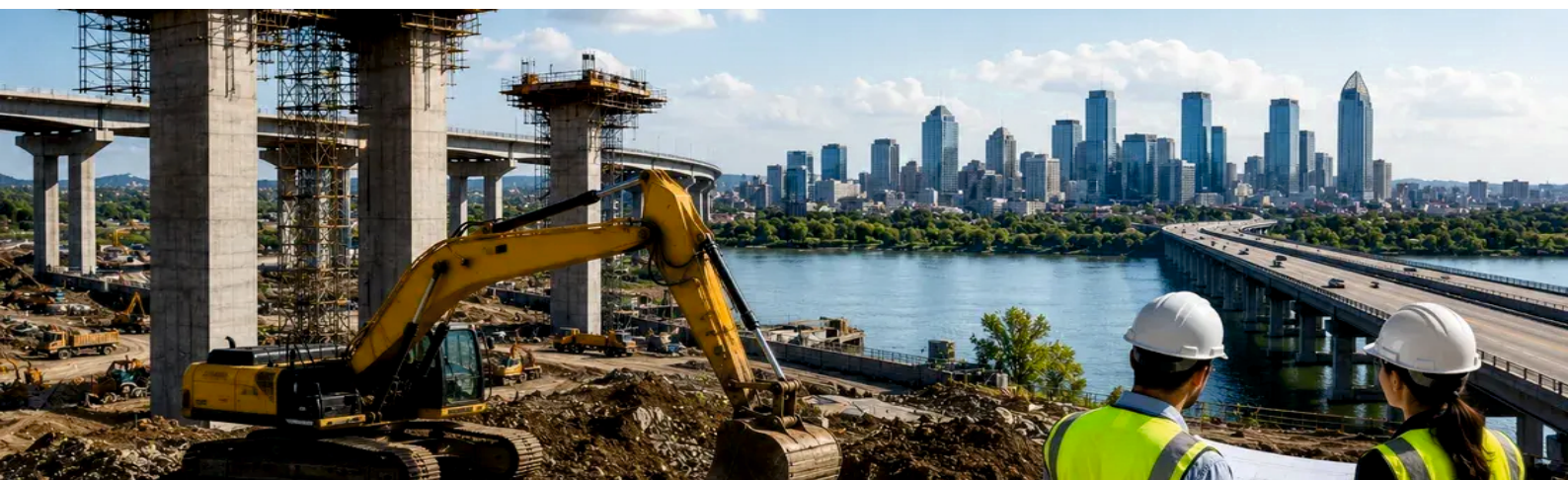
- | | | |
|---------------|--------------------------------------|-----------------------------------|
| * MS Angles | * NPB – Narrow Parallel Flange Beams | * UC – Universal Columns |
| * MS Channels | * WPB – Wide Parallel Flange Beams | * H-Beams |
| * Joists | * UB – Universal Beams | * Other Structural Steel Sections |

Our Commitment

At Bansal Steel Traders LLP, our business is built on trust, transparency and long-term relationships. We endeavour to provide our customers with the right SAIL material, in the required quantity, with dependable availability and timely service.

Backed by more than 40 years of industry knowledge, substantial inventory, strong distribution capabilities and our longstanding association with SAIL, BST remains committed to serving the growing structural steel requirements of India.

Carrying forward the foundation laid by Late Sh. Mohan Lal Bansal and strengthened under the leadership of Sh. Mukesh Bansal, BST continues to move forward with a clear commitment to quality, reliability and responsible growth.



Regular Sections Available

NARROW PARALLEL FLANGE BEAMS	
SECTION	WEIGHT (KG/M)
NPB 200x100	22.36/25.09
NPB 250x125	30.11
NPB 300x150	42.24/49.32
NPB 350x170	50.22/57.10/66.05
NPB 400x180	57.38/66.31
NPB 450x190	67.16/77.58
NPB 500x200	90.69
NPB 600x220	122.45

INDIAN STANDARD MEDIUM CHANNEL (ISMC)	
SECTION	WEIGHT (KG/M)
MC 75x40	7.14
MC 100x50	9.56
MC 125x65	13.10
MC 150x75	16.80
MC 200x75	22.30
MC 250x82	34.20
MC 300x90	36.30
MC 400x100	50.30

INDIAN STANDARD MEDIUM BEAMS (ISMB)	
SECTION	WEIGHT (KG/M)
MB 150x75	14.96
MB 250x125	37.30
MB 300x140	46.02

WIDE PARALLEL FLANGE BEAMS	
SECTION	WEIGHT (KG/M)
WPB 150x150	23.5/30.44/36.97
WPB 160x160	22.75/30.44/42.59/76.19
WPB 200x200	37.34/42.26/61.30
WPB 240x240	60.32/83.20
WPB 300x300	100.85/117.03/237.92

INDIAN STANDARD UNIVERSAL COLUMNS	
SECTION	WEIGHT (KG/M)
UC 203x203	46.1/52/60

INDIAN STANDARD UNIVERSAL BEAMS	
SECTION	WEIGHT (KG/M)
UB 356x171	45/51/57/67.1
UB 406x178	60/67/74

INDIAN STANDARD EQUAL ANGLES	
SECTION	WEIGHT (KG/M)
ANGLE 50x50x6	4.49
ANGLE 65x65x6/8/10	5.91/7.73/9.49
ANGLE 75x75x6/8/10	6.86/9.00/11.07
ANGLE 90x90x6/8/10	8.32/10.92/13.47
ANGLE 100x100x6/8/10/12	9.2/12.18/15.04/17.83
ANGLE 110x8/10/12	13.30/17.30/20.80
ANGLE 130x130x10/12	19.7/23.4
ANGLE 110x100x6/8/10/12	9.2/12.18/15.04/17.83
ANGLE 150x150x10/12/16	22.93/27.29/35.8
ANGLE 200x200x12/16	36.85/48.53

Other Sections Also Available on Order or Availability

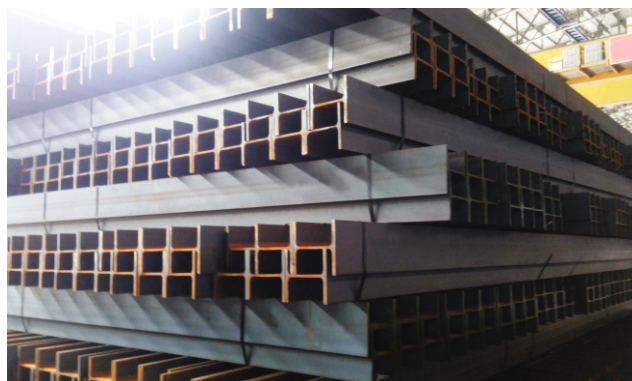
PRODUCT RANGE

Parallel Flange Sections

Narrow Parallel Flange Beams				
Section	Weight (Kg/m)	Plant	Mill	Equivalent European I Beam
NPB 100 x 55	8.1	DSP	MSM	IPE 100
NPB 200 x 100	22.36 / 25.09	DSP	MSM	IPE 200/ IPE 200 O
NPB 250 x 125	30.11	DSP	MSM	IPE 250
**NPB 270 x 135	30.73/36.07/42.26	ISP	USM	IPE 270 A/ IPE 270/ IPE 270 O
NPB 300 x 150	36.53/42.24/49.32	ISP	USM	IPE 300 A/ IPE 300/ IPE 300 O
**NPB 350 x 170	50.22/57.10/66.05	ISP	USM	IPE 350 A/ IPE 350/ IPE 350 O
NPB 400 x 180	57.38/66.31/75.67/84.00	ISP	USM	IPE 400 A/IPE 400/ IPE 400 O/ IPE 400 V
NPB 450 x 190	67.16 / 77.58/92.37/95.20/104	ISP	USM	IPE 450 A/IPE 450/ IPE 450 O/ IPE 450 R / IPE 450 V
NPB 500 x 200	79.36/90.69/107.32	ISP	USM	IPE 500 A/ IPE 500/ IPE 500 O
**NPB 550 x 210	92.08/105.52/122.52	ISP	USM	IPE 550 A/ IPE 550/ IPE 550 O
NPB 600 x 220	107.57/122.45/154.47/184.00	ISP	USM	IPE 600/IPE 600 O/ IPE 600V
NPB 750 x 270	173.00/174.54/185.00/196.00/202.49	ISP	USM	IPE 750 A/IPE 750/ IPE 750 O/ IPE 750 R / IPE 750 V
Wide Parallel Flange Beams				
Section	Weight(Kg/m)	Plant	Mill	Equivalent European H Beam
**WPB 150 x 150	23.5/30.11/36.97	DSP	MSM	HE 150 AA/HE 150 A/HE 150 B
WPB 160 x 160	22.75/30.44/42.59/76.19	DSP	MSM	HE 160 AA/HE 160 A/HE 160 B/ HE 160 M
WPB 200 x 200	37.34	ISP	USM	
WPB 200 x 200	34.65/42.26/61.30 / 50.92*	ISP	USM	HE 200 AA/HE 200 A/HE 200 B /HE 200 M
WPB 240 x 240	47.40/60.32/83.20/156.68	ISP	USM	HE 240 AA/HE 240 A/HE 240 B/HE 240 M
WPB 300 x 300	100.85 / 69.80 */ 88.34*	ISP	USM	HE 300 AA/ HE 300 A
WPB 300 x 300	117.03/237.92	ISP	USM	HE 300 B/ HE 300 M
**WPB 340 x 300	78.90/104.78/134.16/290.64	ISP	USM	HE 340 AA/HE 340 A/HE 340 B/HE 340 M
**WPB 450 x 300	139.76/171.12/263.33 / 99.75	ISP	USM	HE 450 AA/HE 450 A/HE 450 B/HE 450 M

** New Section: Under Development

*New Variant: Under Development



PRODUCT RANGE

Conventional Structurals

Section	Weight(Kg/m)	Plant	Mill
Indian Standard Medium Beams (ISMB)			
MB 100 x 50	8.95	DSP	MSM
MB 150 x 75	14.96	DSP	MSM
MB 200 x 100	24.17	DSP	SM
MB 250 x 125	37.30	DSP	MSM
MB 300 x 140	46.02	DSP	MSM
Indian Standard Medium Channel (ISMC)			
MC 75 x 40	7.14	BSP	MM
MC 100 x 50	9.56	DSP/BSP	MSM
MC 125 x 65	13.10	DSP	MSM
MC 150 x 75	16.80	DSP	MSM/SM
MC 200 x 75	22.30	DSP	MSM/SM
MC 250 x 82	34.20	ISP	USM
MC 300 x 90	36.30	ISP/DSP	USM/MSM
MC 400 x 100	50.10	ISP	USM
Indian Standard Equal Angles (ISA)			
Angle 50 x 50 x 5/6	3.79 /4.49	BSP	MM
Angle 60 x 60 x 5/6/8	4.50/5.40/7.00	BSP	MM
Angle 65 x 65 x 5/6/8/10	4.98/5.91/7.73/9.49	BSP	MM
Angle 70 x 70 x 5/6	5.30/6.30	BSP	MM
Angle 75 x 75 x 5/6/8/10	5.77/6.86/9.00/11.07	BSP	MM
Angle 80 x 80 x 6/8/10	7.36/9.65/11.88/14.05	BSP	MM
Angle 90 x 90 x 6/8/10/12	8.32/10.92/13.47/15.95	DSP/BSP	MSM/MM
Angle 100 x 100 x 6/8/10/12	9.26/12.18/15.04/17.83	DSP	MSM
Angle 150 x 150 x 10/12	22.93/27.29	ISP	USM
Angle 200 x 200 x 12/16/18/20/25	36.85/48.53/54.3/59.96/73.90	ISP/DSP	USM/MSM**

Besides our Plant rolled sections, we can also supply the following range through our EPAs

Angle 45 mm to 150 mm
 MC 75 x 40 mm to MC 400 x 100 mm
 MB 100 mm to MB 600 mm
 H Beams : 150 mm , 152 mm & 200 mm
 Rail : 15 kg, 30 kg
 Flats : 50 x 6 to 150 x 12 mm
 Mild Steel Rounds

MSM - Medium Structural Mill
 USM - Universal Section Mill
 MM - Merchant Mill
 ISP - IISCO Steel Plant
 DSP - Durgapur Steel Plant
 BSP - Bhilai Steel Plant
 EPA - External Processing Agency

AVAILABLE GRADES/QUALITIES

- IS 2062 E250BR, 300BR, 350BR, 410BR, 450BR.
- EN 10025 2 S275 JR, S355 JR (for exports / IPEs).

(Structurals in IS specifications can be supplied in Grade B0 & Grade C with mutual agreement.)

(Structurals with Copper addition (0.20 - 0.60%) can also be supplied).

In addition to above **IS 11587 WR 480A & 480B (WEATHER RESISTANT)** grades can also be supplied.

Sections from MSM & USM are normally supplied in 12 meter length. However specific lengths can be supplied with mutual agreement

Testing facilities available - Tensile, bend, impact testing (including sub zero temp testing) and inspection of finished products. Bundling - Automatic strapping & bundling facility with tagging. Mill Certifications available with MSM or DSP

- CE Certificate • Certificate from CSIR and CBRI, Roorkee for Fire Resistant Steel

Abbreviations used :

MSM - Medium Structural Mill

USM - Universal Section Mill

DSP - Durgapur Steel Plant

ISP - IISCO Steel Plant, Burnpur

SM - Section Mill, Durgapur

EPA - External Processing Agency

BSP - Bhilai Steel Plant

MM - Merchant Mill, Bhilai



OUR LATEST PRODUCT IS



Parallel Flange Sections

From SAIL's state-of-the-art mills

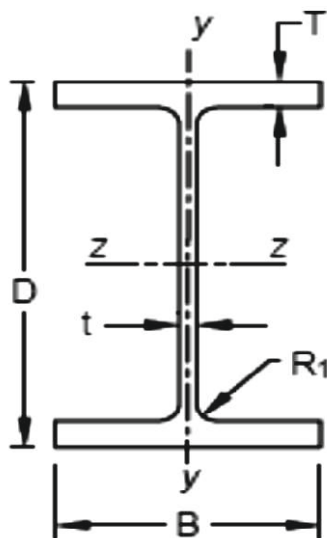
Parallel Flange Sections are hot rolled steel structural sections, with parallel flanges having square toes and curves at the root of flange and web

Parallel Flange Sections meet international standards of quality and stringent requirements of the infrastructure and construction industries

Parallel sections are preferred by today's structural engineers, architects and construction companies

Parallel Flange Sections have multiple advantages over conventional sections

Higher product flexibility - Wide range of width, flange thickness and web thickness combinations for any nominal depth



- ▶▶ D : Depth
- ▶▶ B : Flange Width
- ▶▶ T : Flange thickness
- ▶▶ t : Web thickness
- ▶▶ R₁ : Root radius

Mechanically more efficient - Higher bending strength for beams and higher axial load carrying capacity for columns

Structurally more stable - Greater radius of gyration lowers slenderness ratio and allows withstanding of buckling to a greater extent

Lighter structures - Higher strength to-weight ratio leads to lighter structures and foundations

Loading conditions

- Dead Load of 400 kg/m on floor beams & 100 kg/m on roof beams.
- Live Load of 1000 kg/m² on lower level floor beams & 600 kg/m² on mid level floor and 200 kg/m on roof beams.
- Wind Load of 300 kg/m on each column in both X & Z direction.
- Comparison of the weight of structure, for the above example, is given below:

Conventional Section	Weight in Tons	Parallel Flange Section	Weight in Tons
MB 600 x 123.0	5.79	WPB 240 x 83.20	3.985
MB 450 x 72.4	1.735	WPB 400 x 66.31	1.588
MB 350 x 52.4	1.254	WPB 300 x 49.32	1.181
MB 250 x 37.3	1.125	NPB 250 x 30.11	0.906
Total	9.904	Total	7.661

23% saving in weight is realised by using NEX Parallel Flange Section insted of Conventional sections for the example shown

- Greater efficiency of the Parallel Flange Sections is primarily due to better distribution of material across the section. This leads to greater moment of inertia, section modulus and radius of gyration. Consequently PFS has more load carrying capacity.

ADVANTAGES OF USING HIGH TENSILE SECTIONS

- Lighter super structure
- Upfront savings in cost due to lesser weight of steel
- Reduced depth of beams
- Greater load carrying capacity for same depth of columns used in mild steel
- Lower transportation, handling and erection costs due to lower weight of structure

NEX AS ELECTRIC POLE (WPB 160)

Section	Mass (Kg/m)	Sectional Area (cm ²)	Dimensions (mm)						
			D (Depth)	B (Width)	t (Web thick)	T (Flange thick)	Flange Slope, a deg	R ₁ (Root Radius)	R ₂
WPB 160	30.44	38.78	152	160	6	9	-	15	-

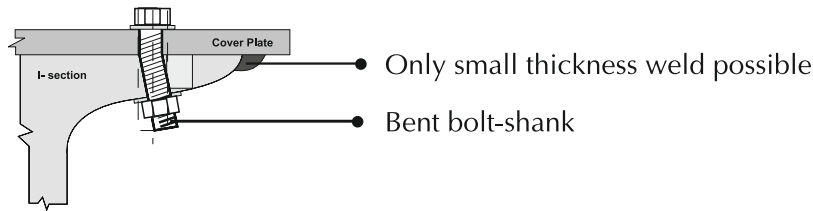
Section	Mass (Kg/m)	Sectional Properties							
		Moment of Inertia		Radius of Gyration		Section Modulus		Plastic Section Modulus	
		I _x (cm ⁴)	I _y (cm ⁴)	R _x (cm)	R _y (cm)	Z _x (cm ³)	Z _y (cm ³)	Z _{px} (cm ³)	Z _{py} (cm ³)
WPB 160x160	30.44	1670	615	6.56	3.98	220	76.9	245	117

Advantages of using NEX (WPB 160) as electric pole

- Comparatively lighter steel member with higher section modulus
- Saving in cost due to lower weight of steel member
- Easier connection due to parallel flanges
- Lower transportation, handling and erection cost owing to lighter members
- Superior finish from state-of-the-art mills
- Supply in specific lengths as per requirement

Parallel Flange Sections have multiple advantages over conventional sections

Easier fabrication - Easier connection of joints by direct bolting on flanges without using tapered washes and easier butt welding of plate at edge of flange

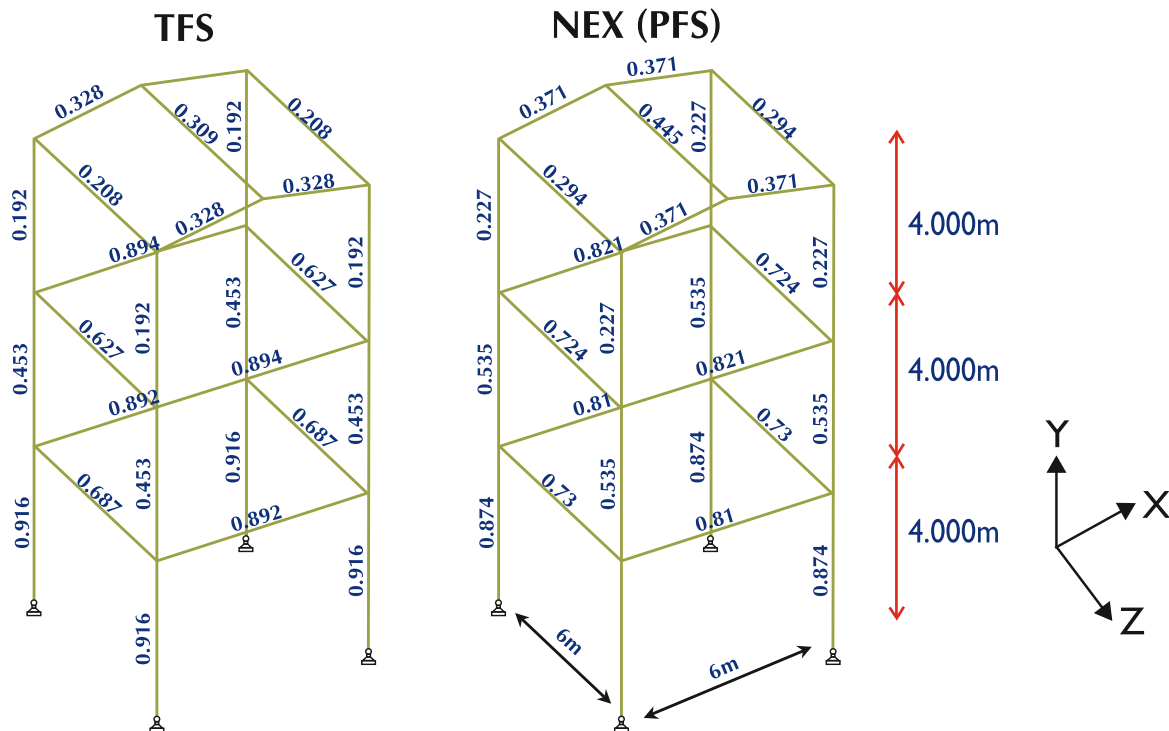


Economical - Substantial saving in material weight when used as compression member (columns) or flexural member (beams)

Type	Size	Weight Kg/m	Area (Sq.cm.)	Radius of Gyration (cm.)
ISMB	600x210	121.00	154	4.08
NPB	600x210	122.45	155	4.66
WPB	400x300	124.80	158	7.33

Section	Mass (Kg/m)	Section Modulus about major axis (cm ³)
MB 400	61.55	1020
NPB 400x180x57.38	57.38	1020

NEX Parallel Flange Sections are more efficient and provide more economic designs.
e.g. UTILISATION RATIO of sections



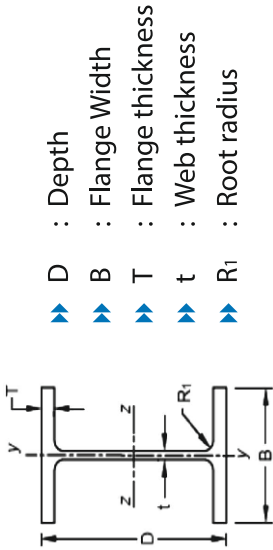
Max utilisation ratio of the Conventional section used:

Top Beams:	MB250 - 0.328
Mid Beams:	MB350 - 0.894
Lower Beams:	MB450 - 0.892
Columns:	MB600 - 0.916

Max utilisation ratio of the Parallel Flange section used:

Top Beams:	NPB250x30.11 - 0.371
Mid Beams:	NPB300x49.32 - 0.821
Lower Beams:	NPB400x66.31 - 0.81
Columns:	WPB240x83.2 - 0.874

The ratio of calculated design load on any structural member to its load-carrying capacity is known as UTILISATION RATIO which should normally be less than one



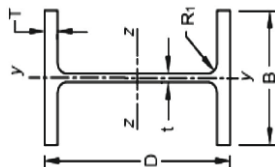
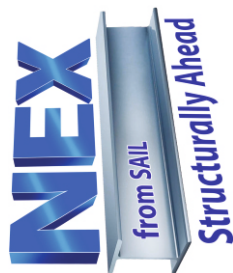
- ▶▶ D : Depth
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- ▶▶ t : Web thickness
- ▶▶ R₁ : Root radius

SAIL NEX STRUCTURALS (PFS-NPB)

Sectional Properties (Conforming to IS 808:2021), Narrow Parallel Flange Beams (NPB)

Designation	Mass	Area	Dimensions					Properties											
	M	A	D	B	t	T	FlangeSlope(α)	R1	R2	Izz	Iyy	rz	ry	Zzz	Zyy	Zpz	Zpy	It	Iw
NPB	kg/m	Åx10²mm²	mm	mm	mm	mm	degrees	mm	mm	Åx10⁴mm⁴	Åx10⁴mm⁴	mm	mm	Åx10³mm³	Åx10³mm³	Åx10³mm³	Åx10³mm³	Åx10⁴mm⁴	Åx10⁶mm⁶
NPB 100 x 55 x 8.10	8.10	10.3	100	55	4.1	5.7	90.0	7.0	0.0	171	15.9	40.7	12.4	34.2	5.78	39.4	9.14	1.15	351
NPB 200 x 100 x 22.36	22.36	28.4	200	100	5.6	8.5	90.0	12.0	0.0	1,940	142	82.6	22.3	194	28.4	220	44.6	6.92	12,900
NPB 200 x 100 x 25.09	25.09	31.9	202	102	6.2	9.5	90.0	12.0	0.0	2,210	168	83.1	22.9	218	33.1	249	51.8	9.36	15,500
NPB 250 x 125 x 30.11	30.11	38.3	250	125	6.0	9.0	90.0	15.0	0.0	4,130	294	103	27.7	331	47.0	373	73.6	11.1	42,500
NPB 270 x 135 x 30.73	30.73	39.1	267	135	5.5	8.7	90.0	15.0	0.0	4,910	357	112	30.2	368	53.0	412	82.3	10.4	59,500
NPB 270 x 135 x 36.07	36.07	45.9	270	135	6.6	10.2	90.0	15.0	0.0	5,780	419	112	30.2	428	62.2	483	96.9	15.9	70,500
NPB 270 x 135 x 42.26	42.26	53.8	274	136	7.5	12.2	90.0	15.0	0.0	6,940	513	113	30.8	507	75.5	574	117.0	25.0	87,600
NPB 300 x 150 x 36.53	36.53	46.5	297	150	6.1	9.2	90.0	15.0	0.0	7,170	518	124	33.4	483	69.1	541	107.0	13.3	1,07,000
NPB 300 x 150 x 42.24	42.24	53.8	300	150	7.1	10.7	90.0	15.0	0.0	8,350	603	124	33.5	557	80.5	628	125.0	19.9	1,25,000
NPB 300 x 150 x 49.32	49.32	62.8	304	152	8.0	12.7	90.0	15.0	0.0	9,990	745	126	34.4	657	98.1	743	152.0	30.9	1,57,000
NPB 350 x 170 x 50.22	50.22	63.9	357.6	170	6.6	11.5	90.0	18.0	0.0	14,500	944	150	38.4	811	111	906	171.0	27.3	2,81,000
NPB 350 x 170 x 57.10	57.10	72.7	360	170	8.0	12.7	90.0	18.0	0.0	16,200	1040	149	37.8	903	122	1010	191.0	37.4	3,13,000
NPB 350 x 170 x 66.05	66.05	84.1	364	172	9.2	14.7	90.0	18.0	0.0	19,000	1250	150	38.5	1040	145	1180	226.0	55.7	3,80,000
NPB 400 x 180 x 57.38	57.38	73.0	397	180	7.0	12.0	90.0	21.0	0.0	20,200	1,170	166	40.0	1,020	130	1,140	202.0	36.1	4,32,000
NPB 400 x 180 x 66.31	66.31	84.4	400	180	8.6	13.5	90.0	21.0	0.0	23,100	1,310	165	39.5	1,150	146	1,300	229.0	51.3	4,90,000
NPB 400 x 180 x 75.67	75.67	96.3	404	182	9.7	15.5	90.0	21.0	0.0	26,700	1,560	166	40.2	1,320	171	1,500	269.0	73.3	5,87,000
NPB 450 x 190 x 67.16	67.16	85.5	447	190	7.6	13.1	90.0	21.0	0.0	29,700	1,500	186	41.9	1,330	158	1,490	245.0	47.1	7,04,000
NPB 450 x 190 x 77.58	77.58	98.8	450	190	9.4	14.6	90.0	21.0	0.0	33,700	1,670	184	41.1	1,490	176	1,700	276.0	66.7	7,91,000
NPB 450 x 190 x 92.37	92.37	117	456	192	11.0	17.6	90.0	21.0	0.0	40,900	2,080	186	42.1	1,790	217	2,040	340.0	109	9,97,000
NPB 450 x 190 x 104	104.00	132.0	460	194	12	19.6	90.0	21.0	0.0	46200	2397.0	187	42.6	2,009	247	2,301	389.0	150	11,60,000

Dimensional Tolerances will be conforming IS 12779 : 1989 (1995)



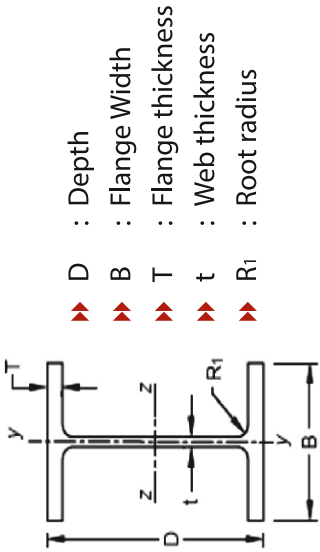
- ▶▶ D : Depth
 ▶▶ B : Flange Width
 ▶▶ T : Flange thickness
 ▶▶ t : Web thickness
 ▶▶ R₁ : Root radius

SAIL NEX STRUCTURALS (PFS-NPB)

Sectional Properties (Conforming to IS 808:2021), Narrow Parallel Flange Beams (NPB)

Designation	Mass	Area	Dimensions						Properties													
	M	A	D	B	t	T	FlangeSlope(α)	R1	R2	Izz	Iyy	rz	ry	Zzz	Zyy	Zpz	Zpy	It	Iw			
NPB	kg/m	Åx10 ² mm ²	mm	mm	mm	mm	degrees	mm	mm	Åx10 ⁴ mm ⁴	Åx10 ⁴ mm ⁴	mm	mm	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ⁴ mm ⁴	Åx10 ⁶ mm ⁶			
NPB 500 x 200 x 79.36	79.36	101	497	200	8.4	14.5	90.0	21.0	0.0	42,900	1,930	206	43.8	1,720	193	1,940	301	64.3	11,20,000			
NPB 500 x 200 x 90.69	90.69	115	500	200	10.2	16.0	90.0	21.0	0.0	48,100	2,140	204	43.0	1,920	214	2,190	335	89.1	12,40,000			
NPB 500 x 200 x 107.32	107.32	136	506	202	12.0	19.0	90.0	21.0	0.0	57,700	2,620	205	43.7	2,280	259	2,610	408	142	15,40,000			
NPB 550 x 210 x 92.08	92.08	117	547	210	9.0	15.7	90.0	24.0	0.0	59,900	2,430	226	45.5	2,190	232	2,470	361	89.3	17,10,000			
NPB 550 x 210 x 105.52	105.52	134	550	210	11.1	17.2	90.0	24.0	0.0	67,100	2,660	223	44.5	2,441	254	2,780	400	122	18,80,000			
NPB 550 x 210 x 122.52	122.52	156	556	212	12.7	20.2	90.0	24.0	0.0	79,100	3,220	225	45.4	2,840	304	3,260	480	187	23,00,000			
NPB 600 x 220 x 107.57	107.57	137	597	220	9.8	17.5	90.0	24.0	0.0	82,900	3,110	246	47.6	2,770	283	3,140	442	122	26,00,000			
NPB 600 x 220 x 122.45	122.45	155	600	220	12.0	19.0	90.0	24.0	0.0	92,000	3,380	242	46.6	3,060	307	3,510	485	165	28,40,000			
NPB 600 x 220 x 154.47	154.47	196	610	224	15.0	24.0	90.0	24.0	0.0	1,18,000	4,520	245	47.9	3,870	403	4,470	640	316	38,50,000			
NPB 600x220x183.52	183.52	234	618	228	18	28.0	90.0	24.0	0.0	1,42,000	5,560	246	48.8	4,582	488	5,324	780	512	48,10,000			
NPB 750 x 270 x 173	173.00	221	762	267	14.4	21.6	90.0	17.0	0.0	2,05,800	6,873	305	55.7	5,402	515	6,218	810	274	93,90,000			
NPB 750 x 270 x 174.54	174.54	222	760	270	14.4	21.6	90.0	17.0	0.0	2,06,000	7,100	304	56.5	5,430	526	6,240	827	272	96,50,000			
NPB 750 x 270 x 185	185.00	236	766	267	14.9	23.6	90.0	17.0	0.0	2,23,000	7,510	308	56.5	5,821	563	6,691	884	337	1,03,00,000			
NPB 750 x 270 x 196	196.00	251	770	268	15.6	25.4	90.0	17.0	0.0	2,40,300	8,175	310	57.1	6,241	610	7,174	959	408	1,13,00,000			
NPB 750 x 270 x 202.49	202.49	257	770	270	15.6	26.6	90.0	17.0	0.0	2,49,000	8,750	311	58.2	6,480	648	7,430	1,010	450	1,20,00,000			

Dimensional Tolerances will be conforming IS 12779 : 1989 (1995)



SAIL NEX STRUCTURALS (PFS-WPB)

Sectional Properties (Conforming to IS 808:2021), Wide Parallel Flange Beams (WPB)

Designation	Mass	Area	Dimensions					Properties												
	M	A	D	B	t	T	FlangeSlope(α)	R1	R2	Izz	Iyy	Iz	Iy	ry	Zzz	Zyy	Zpz	Zpy	It	Iw
WPB	kg/m	Åx10 ² mm ²	mm	mm	mm	mm	degrees	mm	mm	Åx10 ⁴ mm ⁴	Åx10 ⁴ mm ⁴	mm	mm	mm	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ⁴ mm ⁴	Åx10 ⁶ mm ⁶
WPB 150 x 150 x 23.50	23.50	29.9	152	152	5.8	6.8	90.0	12.0	0.0	1,270	398	65.2	36.4	167	52.4	186	80.4	5.55	20,900	
WPB 150 x 150 x 30.11	30.11	38.3	158	153	6.5	9.4	90.0	8.0	0.0	1,760	561	67.7	38.2	222	73.4	248	111	10.6	30,900	
WPB 150 x 150 x 36.97	36.97	47.0	162	154	8.0	11.5	90.0	8.0	0.0	2,210	700	68.5	38.5	273	91.0	308	138	19.2	39,600	
WPB 160 x 160 x 22.75	22.75	28.9	148	160	4.5	7.0	90.0	8.0	0.0	1,220	478	65.0	40.6	165	59.7	181	90.5	4.54	23,700	
WPB 160 x 160 x 30.44	30.44	38.7	152	160	6.0	9.0	90.0	15.0	0.0	1,670	615	65.6	39.8	220	76.9	245	117	12.1	31,400	
WPB 160 x 160 x 42.59	42.59	54.2	160	160	8.0	13.0	90.0	15.0	0.0	2,490	889	67.7	40.4	311	111	353	169	31.2	47,900	
WPB 160 x 160 x 76.19	76.19	97.0	180	166	14.0	23.0	90.0	15.0	0.0	5,090	1,750	72.4	42.5	566	211	674	325	160	1,08,000	
WPB 200 x 200 x 34.65	34.65	44.1	186	200	5.5	8.0	90.0	18.0	0.0	2,940	1,060	81.6	49.2	316	106	347	163	12.5	84,400	
WPB 200 x 200 x 37.34	37.34	47.6	200	200	6.1	8.9	90.0	10.0	0.0	3,628	1,187	87.3	50.0	363	119	398	180	13.3		
WPB 200 x 200 x 42.26	42.26	53.8	190	200	6.5	10.0	90.0	18.0	0.0	3,690	1,330	82.8	49.8	388	133	429	203	21.0	1,08,000	
WPB 200 x 200 x 50.92	50.92	64.8	194	202	8.0	12.0	90.0	18.0	0.0	4,530	1,650	83.5	50.4	467	163	521	249	34.3	1,36,000	
WPB 200 x 200 x 61.30	61.30	78.0	200	200	9.0	15.0	90.0	18.0	0.0	5,690	2,000	85.4	50.6	569	200	642	305	59.7	1,71,000	
WPB 240 x 240 x 47.40	47.40	60.3	224	240	6.5	9.0	90.0	21.0	0.0	5,830	2,070	98.3	58.6	520	173	570	264	22.1	2,39,000	
WPB 240 x 240 x 60.32	60.32	76.8	230	240	7.5	12.0	90.0	21.0	0.0	7,760	2,760	100	60.0	675	230	744	351	42.1	3,28,000	
WPB 240 x 240 x 83.20	83.20	105	240	240	10.0	17.0	90.0	21.0	0.0	11,200	3,920	103	60.8	938	326	1,050	498	103	4,86,000	
WPB 240 x 240 x 156.68	156.68	199	270	248	18.0	32.0	90.0	21.0	0.0	24,200	8,150	110	63.9	1,790	657	2,110	1,000	626	11,50,000	
WPB 300 x 300 x 69.80	69.80	88.9	283	300	7.5	10.5	90.0	27.0	0.0	13,800	4,730	124	72.9	975	315	1,060	482	47.8	8,77,000	
WPB 300 x 300 x 88.34	88.34	112	290	300	8.5	14.0	90.0	27.0	0.0	18,200	6,300	127	74.8	1,250	420	1,380	641	87.8	11,90,000	
WPB 300 x 300 x 100.85	100.85	128	294	300	10.0	16.0	90.0	27.0	0.0	21,000	7,210	128	74.9	1,430	480	1,580	733	124	13,90,000	
WPB 300 x 300 x 117.03	117.03	149	300	300	11.0	19.0	90.0	27.0	0.0	25,100	8,560	129	75.7	1,670	570	1,860	870	189	16,80,000	

Dimensional Tolerances will be conforming IS 12779 : 1989 (1995)

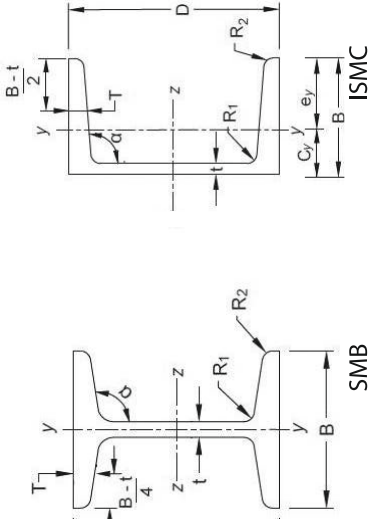


SAIL NEX STRUCTURALS (PFS-WPB)

Sectional Properties (Conforming to IS 808:2021), Wide Parallel Flange Beams (WPB)

Designation	Mass M	Area A	Dimensions					Properties									
			D	B	t	T	Flange Slope (α)	R ₁	R ₂	I _{zz}	I _{yy}	r _z	r _y	Z _{zz}	Z _{yy}	Z _{yz}	Z _{zy}
WPB	kg/m	Åx10 ³ mm ²	mm	mm	mm	mm	degrees	mm	mm	Åx10 ⁴ mm ⁴	Åx10 ⁴ mm ⁴	mm	mm	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³
WPB 300 x 300 x 237.92	237.92	303	340	310	21.0	39.0	90.0	27.0	0.0	59,200	19,400	139	80.0	3,480	1,250	4,070	1,910
WPB 340 x 300 x 78.90	78.90	100	320	300	8.5	11.5	90.0	27.0	0.0	19,500	5,180	139	71.8	1,220	345	1,340	529
WPB 340 x 300 x 104.78	104.78	133	330	300	9.5	16.5	90.0	27.0	0.0	27,600	7,430	144	74.6	1,670	495	1,850	755
WPB 340 x 300 x 134.16	134.16	170	340	300	12.0	21.5	90.0	27.0	0.0	36,600	9,680	146	75.3	2,150	645	2,400	985
WPB 340 x 300 x 290.64	290.64	315	377	309	21.0	40.0	90.0	27.0	0.0	76,300	19,700	155	79.0	4,050	1,270	4,710	1,950
WPB 450 x 300 x 99.75	99.75	127	425	300	10.0	13.5	90.0	27.0	0.0	41,800	6,080	181	69.2	1,970	405	2,180	624
WPB 450 x 300 x 139.76	139.76	178	440	300	11.5	21.0	90.0	27.0	0.0	63,700	9,460	189	72.9	2,890	631	3,210	965
WPB 450 x 300 x 171.12	171.12	217	450	300	14.0	26.0	90.0	27.0	0.0	79,800	11,700	191	73.3	3,550	781	3,980	1,190
WPB 450 x 300 x 263.33	263.33	335	478	307	21.0	40.0	90.0	27.0	0.0	1,31,000	19,300	197	75.9	5,500	1,250	6,330	1,930

Dimensional Tolerances will be conforming IS 12779 : 1989 (1995)



SAIL STRUCTURALS

TAPERED FLANGE SECTIONS (TFS) FROM SAIL

Sectional Properties (Conforming to IS 808:2021), Indian Standard Medium Beams (ISMB)

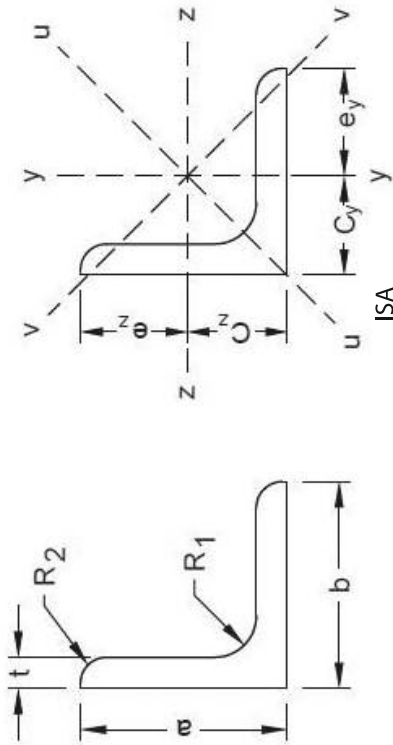
Designation	Mass	Area	Dimensions					Properties											
	M	A	D	B	t	T	FlangeSlope(α)	R1	R2	Izz	Iyy	rz	ry	Zzz	Zyy	Zpz	Zpy	It	Iw
ISMB	kg/m	Åx10 ² mm ²	mm	mm	mm	mm	degrees	mm	mm	Åx10 ⁴ mm ⁴	Åx10 ⁴ mm ⁴	mm	mm	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ³ mm ³	Åx10 ⁴ mm ⁴	Åx10 ⁶ mm ⁶
MB 100	8.95	11.4	100	50	4.7	7.0	98.0	9.0	4.5	182	12.5	39.9	10.4	36.4	5.01	42.6	8.58	2.15	315
MB 150	14.96	19.0	150	75	5.0	8.0	98.0	9.0	4.5	718	46.7	61.3	15.6	95.7	12.4	109	21.0	4.36	2,830
MB 250	37.30	47.5	250	125	6.9	12.5	98.0	13.0	6.5	5,130	334.0	103	26.5	410.0	53.5	465	89.7	25.5	57,300
MB 300	46.02	58.6	300	140	7.7	13.1	98.0	14.0	7.0	8,990	486.0	123	28.7	599.0	69.4	681	117	34.7	1,23,000

Dimensional Tolerances will be conforming IS 1852 : 1985

Sectional Properties (Conforming to IS 808:2021), Indian Standard Medium Channels (ISMC)

Designation	Mass	Area	Dimensions					Properties																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			A	D	B	t	T	Slope(α)	R ₁	R ₂	C _y	I _{zz}	I _{yy}	r _z	r _y	Z _{yy}	Z _{pz}	p _y	I _t	I _w																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
ISMC	M	A	-10 ³ mm ²	mm	mm	mm	mm	degrees	mm	mm	mm	mm	-10 ⁴ mm ⁴	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	

Dimensional Tolerances will be conforming IS 1852 : 1985



SAIL STRUCTURALS

TAPERED FLANGE SECTIONS (TFS) FROM SAIL

Sectional Properties (Conforming to IS 808:2021), Indian Standard Equal Leg Angles (ISA)

Designation	Mass	Area	Dimensions						Properties															
	M	A	D	B	t	R ₁	R ₂	C _y	C _z	tZ	tY	α	I _u (max)	I _v (min)	rZ	rY	rU	rV	Z _z	Z _y	Z _{pz}	Z _{py}	I _t	
<90×90×6	kg/m	-10 ⁴ mm ²	mm	mm	mm	mm	mm	mm	mm	x10 ⁴ mm ⁴	x10 ⁴ mm ⁴	rad	x10 ⁴ mm ⁴	x10 ⁴ mm ⁴	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	8.32	10.6	90	90	6	8.5	0	24.5	24.5	83.0	83.0	0.79	131	34.2	28.0	28.0	35.3	18.0	12.7	12.7	22.8	22.8	1.25	
<90×90×8	10.92	13.9	90	90	8	8.5	0	25.3	25.3	107	107	0.79	170	44.1	27.7	27.7	35.0	17.8	16.5	16.5	29.7	29.8	2.93	
<90×90×10	13.47	17.1	90	90	10	8.5	0	26.0	26.0	129	129	0.79	205	53.6	27.5	27.5	34.6	17.7	20.2	20.2	36.4	36.5	5.66	
<90×90×12	15.95	20.3	90	90	12	8.5	0	26.8	26.8	150	150	0.79	238	62.8	27.2	27.2	34.2	17.6	23.8	23.8	42.9	43.0	9.67	
<100×100×6	9.26	11.8	100	100	6	8.5	0	27.0	27.0	115	115	0.79	182	47.2	31.2	31.2	39.4	200	15.7	15.7	28.3	28.3	1.39	
<100×100×8	12.18	15.5	100	100	8	8.5	0	27.8	27.8	148	148	0.79	236	61	31	31	39	198	20.6	20.6	37	37.1	3.27	
<100×100×10	15.04	19.1	100	100	10	8.5	0	28.5	28.5	180	180	0.79	286	74.3	30.7	30.7	38.7	197	25.3	25.3	45.4	45.5	6.33	
<100×100×12	17.83	22.7	100	100	12	8.5	0	29.3	29.3	210	210	0.79	333	87.2	30.4	30.4	38.3	196	29.8	29.8	53.6	53.7	10.8	
<150×150×10	22.93	29.2	150	150	10	12.0	4.8	40.8	40.8	633	633	0.79	1,000	259	46.6	46.6	58.7	298	58	58	104	104	9.66	
<150×150×12	27.29	34.7	150	150	12	12.0	4.8	41.6	41.6	746	746	0.79	1,180	305	46.3	46.3	58.4	296	68.8	68.8	124	124	16.5	
<200×200×12	36.85	46.9	200	200	12	15.0	4.8	53.9	53.9	1,820	1,820	0.79	2,900	746	62.4	62.4	78.7	399	125	125	225	225	22.3	
<200×200×16	48.53	61.8	200	200	16	15.0	4.8	55.6	55.6	2,360	2,360	0.79	3,760	967	61.9	61.9	78	396	163	163	295	295	52.4	
<200×200×20	59.96	76.3	200	200	20	15.0	4.8	57.1	57.1	2,870	2,870	0.79	4,560	1,180	61.3	61.3	77.3	393	201	201	362	363	101	
<200×200×25	73.90	94.1	200	200	25	15.0	4.8	59.0	59.0	3,470	3,470	0.79	5,500	1,430	60.7	60.7	76.5	391	246	246	443	444	195	

Dimensional Tolerances will be conforming IS 1852 : 1985

SAIL NEX WPB 160 as ELECTRIC POLE Installation by Tata Power Ltd. Odisha & WBSEDCL West Bengal



SAIL NEX WPB200 as steel sleepers for Railway bridges



Application of NEX

Flyovers

Stadiums

Metro Rails / Indian Railways

Foot Over Bridges

Multi-level Car Parks

Industrial Buildings

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Commercial Complexes

Power Plants

Ports / Offshore Structures

Oil Refineries / Petrochemical Plants

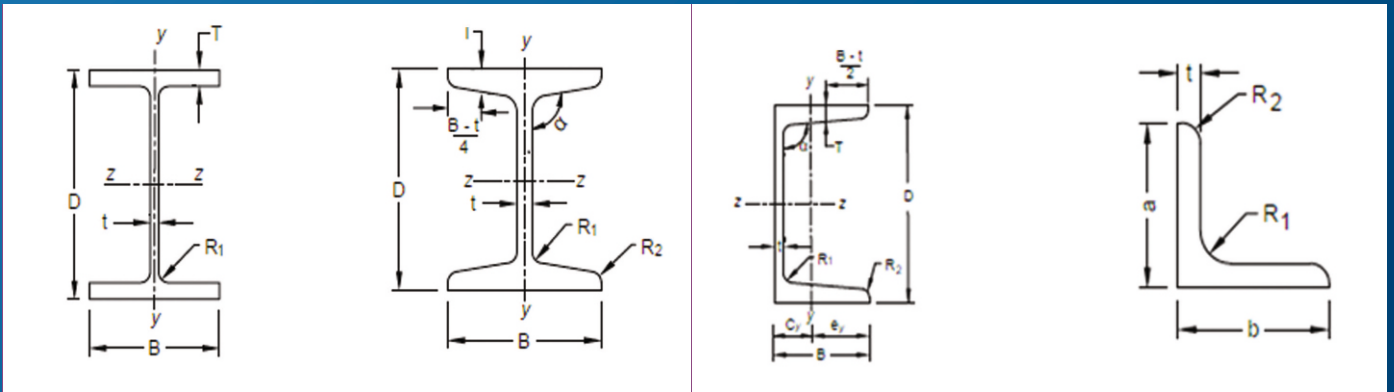
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Trailer and Truck Bed Frames

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