KHYATI ISPAT PRIVATE LIMITED

KHYATI
A TRADITION OF QUALITY

Introduction

KHYATI ISPAT PRIVATE LIMITED was incorporated in the year 1996 with benevolent ambition to be part of Nation's infrastructure development, thus to be part of nation building.

Khyati entered into the manufacturing business in the year 2005 and Our first Structural Steel Rolling mills commercial production began in the same year itself. With a benevolent ambition Khyati started to achieve new milestones by entering into new ventures related to steel business regularly with the successful teamwork and phenomenon of quality. With the ambition to manufacture all types of steel related products, Khyati Group took a step ahead to set up second Structural Steel Rolling Mill, a Structural Fabrication Shop & a new TMT Re-Bar manufacturing unit in the name of MANGLAM ALLOYS & ISPAT PRIVATE LIMITED in the same premises adjacent to each other, which led to the increase of product mix. Considering the growing requirements of galvanized steel structures, Khyati Group started to set up its own state of art Galvanizing plant with Bath size of 13.5m (L) X 1m (W) X 1,5m (D) at Metal Park Industrial Area, Raipur. Foreseeing the steady growth in infrastructure development and market potential, we also entered into the business of supplying various types of U & Z sheet piling and W beam crash barriers for roads, bridges & irrigation projects. We have started in-house cold rolling facilities for U & Z piling and W beam crash barriers.

With the vision to be a respected world-class industry & leader in the steel business with quality, productivity, profitability & customer satisfaction, Khyati has adopted the latest technologies & standards, in order to facilitate the development and manufacturing of various products as per Indian and International Standards and to maintain Quality as its Hallmark as our tag line says "KHYATI-A tradition of Quality".

The Corporate VISION statement of KHYATI :

Our vison statement to emerge as Nation wide Organization and leader in Steel Business by adequately enhancing:

- QUALITY
- PRODUCTIVITY
- PROFITABILITY
- CUSTOMER SATISFACTION

Our Objectives are :

- To build long lasting relationship with customers based on trust and mutual benefit.
- To up hold high ethics to conduct the business.
- To create and nurture a culture that support flexibility, learning and is proactive to changes.
- To Promote challenging career to its employees with opportunities and rewards.
- To value the opportunity and responsibility to make a meaningful difference in people's lives.

Our Promoters

Shri Basant Agrawal (Managing Director)
A Law graduate by education, Shri Basant Agrawal is the master of managing everything that falls between procurement, planning and execution. With boundless experience in material procurement and project execution, he has helped the group to stay intact through the thick and thin. He has enriched the group with an innovative bent of mind, with which he works towards getting all the policies and ideas implemented. From policy making to final product manufacturing, he has never failed to deliver the best. He believes in the revolutionary development in business resultant to the steady growth of the unit and also in espousal of aggressive and cost effective products.

Shri Anmol Agrawal (Director)
Being a second-generation entrepreneur, Shri Anmol Agrawal has intruduced a ray of freshness and a young spirit to the KHYATI Group. He is a mechanical engineer by education and his brilliance added different dimensions to KHYATI Group. Being the Management Representative of KHYATI ISPAT PRIVATE LIMITED, he manages all activities related to projects, day to day planning, management and control and complete administration. His new ideas take breeze of freshness and innovation in its operations and functions.

Our Product Range

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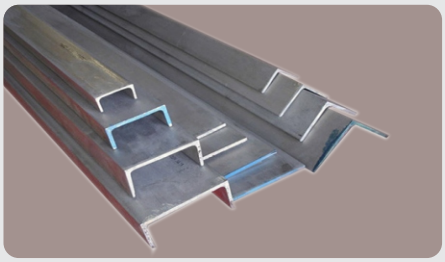
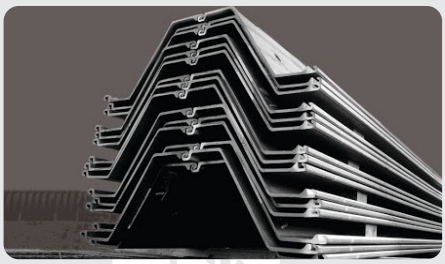
- **Rolling Mill Division : Production Capacity : 1,14,000 MT (Per Annum)**

Items & Description	Product Range (All dimensions are in "mm")
EQUAL LEG ANGLES	45 X 45 X 4 Upto 200 x 200 x 25
UN-EQUAL LEG ANGLES	45 X 30 x 4 Upto 150 x 75 x 10
CHANNELS	75 X 40 Upto 300 x 90
I-BEAMS	100 X 50 Upto 300 x 140
H-BEAMS	116 X 100, 150 X 150, 152 X 152, 203 X 152 & 204 X 206
FLATS	40 X 5 Upto 300 x 20
ROUNDS	10 Upto 100

- **Fabrication Division :** Capacity : Fabrication - 36000 MT (Per Annum) & Galvanizing (Bath size L13.5m x W 1.0m x D 1.5m) - 36000 MT (Per Annum)
  - Transmission Line Towers
  - Substation Structures
  - Telecom Towers (Angular Type)
  - Solar Project's Support Structures
  - Railway Electrification OHE & TSS Steel Structures and Small Parts of Steel (SPS)
  - "W" Crash Barriers for Roads and Bridges
  - Other General Purpose Steel Structures
  - "U" and "Z" Sheet Pilings for Infrastructure & Irrigation Projects

Cold Roll formed sheet pilings Z & U Section's	
Z - Type	**Sheet Pile Specification**
400 x 185	6 mm to 10 mm Thickness
685 x 392	6 mm to 10 mm Thickness
U - Type	**Sheet Pile Specification**
450 x 360	6 mm to 10 mm Thickness
600 x 360	6 mm to 10 mm Thickness





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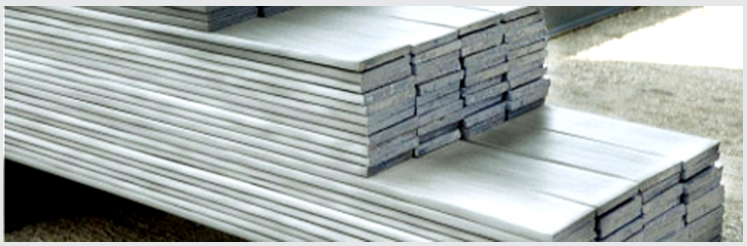
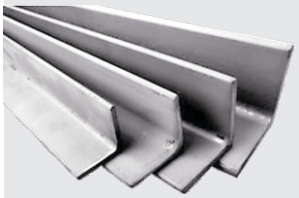
STRUCTURAL
MEDIUM WEIGHT
CHANNELS
Rationalised Size of MS Channels

PRODUCT RANGE	Mass (M)	Sectional Area (a)	Dimensions						
			D	B	t	T	FLANGE SLOPE	R_1	R_2
	Kg/m	cm	mm	mm	mm	mm	deg.	mm	mm
MC 75	7.14	9.10	75	40	4.80	7.50	96^0	8.50	2.40
MC 100	9.56	12.20	100	50	5.00	7.70	96^0	9.00	2.40
MC 125	13.10	16.70	125	65	5.30	8.20	96^0	9.50	2.40
MC 150	16.80	21.30	150	75	5.70	9.00	96^0	10.00	2.40
MC 175	19.60	24.90	175	75	6.00	10.20	96^0	10.50	3.20
MC 200	22.30	28.50	200	75	6.20	11.40	96^0	11.00	3.20
MC 225	26.10	39.00	225	80	6.50	12.40	96^0	12.00	3.20
MC 250	30.60	39.00	250	80	7.20	14.10	96^0	12.00	3.20
MC 250	34.20	43.50	250	82	9.00	14.10	96^0	12.00	3.20
MC 300	36.3	46.3	300	90	7.80	13.60	96^0	13.00	3.20



STRUCTURAL
M.S. FLAT

Width in mm	Thickness in mm			Weight Kg./Mtr.					
	4	5	6	8	10	12	15	20	25
40	1.26	1.56	1.88	2.51	3.14	3.77	4.71	6.28	7.85
45	1.41	1.77	2.12	2.83	2.53	4.24	5.30	7.07	8.83
50	1.57	1.96	2.36	3.14	3.93	4.71	5.89	7.85	9.81
60	1.88	2.36	2.83	3.77	4.71	5.65	7.07	9.42	11.80
65	2.04	2.55	3.06	4.08	5.10	6.12	7.65	10.20	12.80
70	2.20	2.75	3.30	4.40	5.50	6.59	8.24	11.00	13.70
75	2.36	2.94	3.53	4.71	5.89	7.07	8.80	11.80	14.70
80	2.51	3.14	3.77	5.02	6.28	7.54	9.42	12.60	15.70
90	*	3.53	4.24	5.65	7.07	8.48	10.60	14.10	17.70
100	*	3.93	4.71	6.28	7.85	9.42	11.80	15.70	19.60
150	*	*	7.07	9.42	11.80	14.10	17.70	23.60	29.40
200	*	*	9.40	12.60	15.70	18.80	23.60	31.40	39.20
250	*	*	*	*	19.60	23.60	29.40	39.20	49.10
300	*	*	14.10	18.80	23.60	28.30	*	*	*



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EQUAL LEG ANGLES

Rationalised Size of MS Angles

PRODUCT	Size mm*mm						Weight Kg./Mtr									
RANGE	4	5	6	7	8	9	10	12	14	15	16	18	20	22	24	25
45x45	2.70	3.40	4.00	*	*	*	*	*		*	*	*	*		*	*
50x50	3.00	3.80	4.50	5.15	5.82	6.47	*	*		*	*	*	*		*	*
55x55	3.30	4.10	4.90	*	6.40	*	7.90	*		*	*	*	*		*	*
60x60	3.70	4.50	5.40	6.26	7.00	*	8.60	*		*	*	*	*		*	*
65x65	4.00	4.90	5.80	6.83	7.70	8.62	9.40	*		*	*	*	*		*	*
70x70	4.35	5.30	6.30	7.38	8.30	9.32	10.20	*		*	*	*	*		*	*
75x75	4.65	5.70	6.80	7.93	8.90	10.00	11.00	*		*	*	*	*		*	*
80x80	*	6.17	7.30	8.49	9.60	10.80	11.80	14.00		*	*	*	*		*	*
90x90	*	6.97	8.20	9.56	10.80	12.20	13.40	15.80		*	20.7	*	*		*	*
100x100	*	*	9.20	10.70	12.10	13.60	14.90	17.70	20.60	21.90	23.2	*	*		*	*
110x110	*	*	10.2	11.80	13.40	15.00	16.60	19.70	*	*	25.70	*	*		*	*
120X120	*	*	*	12.9	14.70	16.50	18.20	21.60	25.00	26.60	28.3	*	*		*	*
130x130	*	*	*	*	15.90	17.90	19.70	23.50	27.20	29.00	30.70	*	*		*	*
150x150	*	*	*	*	*	*	22.90	27.30	31.60	33.80	35.80	40.10	44.10		*	*
200x200	*	*	*	*	*	*	*	36.90	42.70	45.50	48.50	54.30	60.00	65.60	71.10	73.90

UN-EQUAL LEG ANGLES

PRODUCT Size (mm)	Weight Kg./Mtr					
	4	5	6	8	10	12
45x30	2.20	2.80	3.30	*	*	*
100x75	*	*	8.00	10.50	13.00	15.40
125x75	*	*	9.20	12.10	14.90	*
150x75	*	*	*	13.70	17.00	20.20

TOLERANCE

FLANGE		CAMBER		WEIGHT	
Leg length	Tolerance	Leg Length	Camber	Upto 3mm	± 5%
Up to 45mm	±1.50mm	< 100mm	as per agreement	Over 3mm	+5%-3%
>45 to 100mm	± 2.0 mm	<100mm	0.2% of length		
> 100mm	± 2%				

*The standard length for all dimensions range from 10-13 Mtr., However K I P L can supply fix length ranging from 6-13 Mtr. as required.
* Values mark in the table with Red are in BSEN & Values in Green are Supplementary Angle sections.

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STRUCTURAL
BEAM SECTION & HEAVY BEAMS

PRODUCT RANGE	Mass (M)	Sectional Area (a)	Dimensions						
			D	B	t	T	FLANGE SLOPE	R_1	R_2
	Kg/m	cm	mm	mm	mm	mm	deg.	mm	mm
MB 100	8.90	11.40	100	50	4.70	7.00	98^0	9.00	4.50
MB 125	13.30	17.00	125	70	5.00	8.00	98^0	9.00	4.50
MB 150	15.00	19.10	150	75	5.00	8.00	98^0	9.00	4.50
MB 175	19.60	25.00	175	85	5.80	9.00	98^0	10.00	5.00
MB 200	24.20	30.80	200	100	5.70	10.00	98^0	11.00	5.50
MB 250	37.30	47.50	250	125	6.90	12.50	98^0	13.00	6.50
MB 300	46.00	58.60	300	140	7.70	13.10	98^0	14.00	7.00

PRODUCT RANGE	Mass (M)	Sectional Area (a)	Dimensions						
			D	B	t	T	FLANGE SLOPE	R_1	R_2
	Kg/m	cm^2	mm	mm	mm	mm	deg.	mm	mm
SC 100	23.00	29.30	100	116	8.50	10.00	98^0	15.00	3.00
HB 150	30.60	39.00	150	150	8.40	9.00	94^0	8.00	4.00
HB 150	34.60	44.10	150	150	11.80	9.00	94^0	8.00	4.00
SC 150 BFB	37.10	47.40	152	152	7.90	11.90	98^0	11.70	3.00
WB 200*	52.00	66.50	203	152	8.90	16.50	98^0	15.50	7.60
8'x8'	52.00	66.40	206	204	8.00	12.50	98^0	10.00	-





STRUCTURAL ROUND

Rationalised Size of MS Round

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Size MM	8	10	12	14	16	18	20	22	24	26	28	30	32
Weight Kg./Mtr.	0.395	0.617	0.888	1.210	1.580	2.000	2.470	2.980	3.850	4.830	5.550	6.310	7.550

Size MM	40	45	50	55	60	63	65	70	75	80	90	100
Weight Kg./Mtr.	9.85	12.50	15.40	18.70	22.20	24.47	26.00	30.20	34.70	39.46	49.94	61.66

TOLERANCE

Size	Tolerance	Weight	Tolerance
<35 to 50 mm	± 0.80 mm	Up to 10 mm	± 7.0%
<50 to 80 mm	± 1.0 mm	<10 to Above	± 5.0%
<80 to 100 mm	± 1.3 mm	<16 to Above	± 3.0%
<100 above	± 1.6 mm		

Cold Formed Sheet Pilings in Z & U Sections

Cold Formed Sheet Piles in 'Z' & 'U' shapes in different popular sizes upto 11 mm thick made out of Hot Rolled Steel conforming to IS: 2062 in E250, E350, E410 & E450 grades :

Sheet Piles are by definition, structural units which when connected one to another, will form a continuous wall, generally for retaining earth or excluding water. Individual pieces or pre-interlocked pairs are installed by driving them into the earth using impact hammers, vibrators or by water jetting. In functioning as a wall, the sheet piling acts as a beam under load and therefore requires the capability to resist bending. In certain applications, ability to resist bending is not important but strength of interlock is.

Sheet Piling is manufactured in three basic configurations "Z", "U", and "Straight". They can be formed either "Hot Rolled" or "Cold Rolled". A recent development to the industry is the production of some sheet piling shapes by the cold-forming process in which hot rolled sheet is fabricated into traditional sheet piling shapes. These new additions to product availability contain interlocks which are considerably different from the hot-rolled product. Manufactured from a hot-rolled coil of sheet, it is slowly fed through a series of rollers which gradually bends or forms the steel into its designated shape. Sheet Piles manufactured through cold forming process attain better physical properties and dimensional tolerances than compared to that manufactured by hot process. Apart from the advantage of higher section modulus, moment of inertia and sectional area per meter of wall there is advantage of 20% weight as well.

The "Z" type configuration for sheet piling is the strongest and most efficient. These shapes resemble wide-flange beams, having a web and two flanges. Since the interlocks are located out on the flanges at maximum distance from the neutral axis, a higher section modulus for resisting bending moments is provided. Z-Shapes have traditionally been used for deeper walls and heavier construction projects. However, they are now supplanting the arch or "U" shape for lighter work as more light-weight Z-shape have been introduced into the marketplace. U-shapes resemble the hot-rolled channel sections produced on structural mills. The interlocks are formed on the web ends and interlock with their opposing mate along the centerline of the wall.

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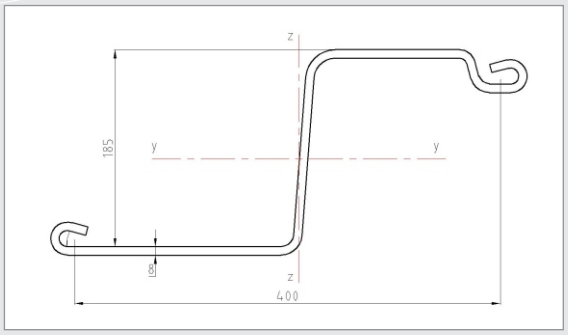
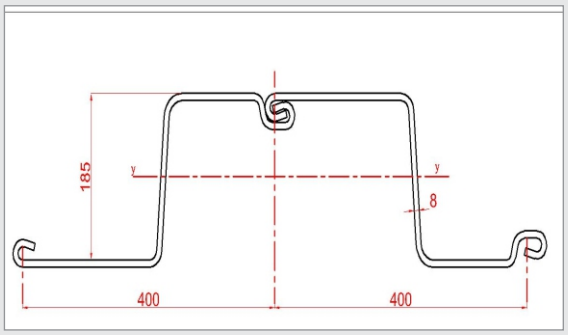
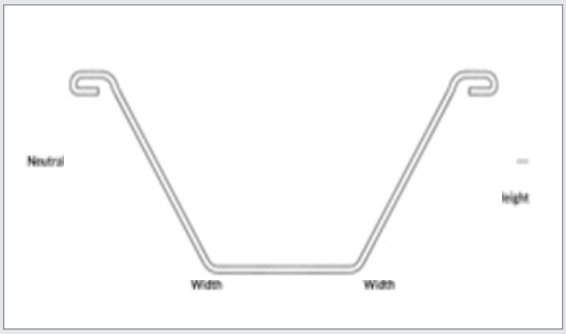
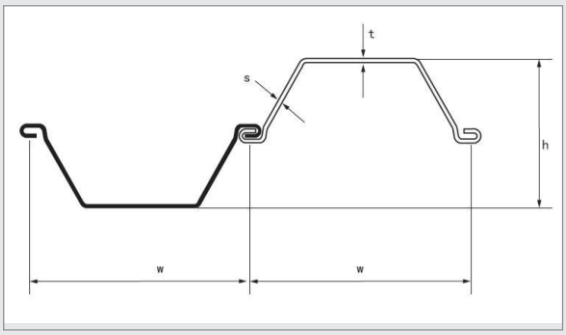
Sheet Piles Z-Type

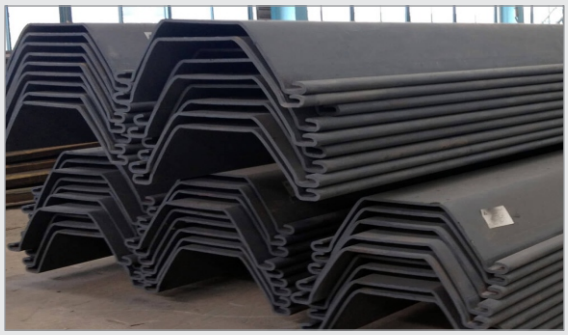




Sheet Piles U-Type







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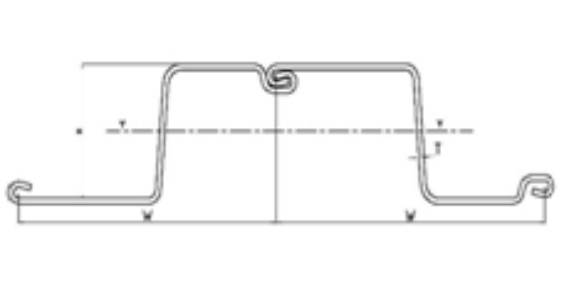
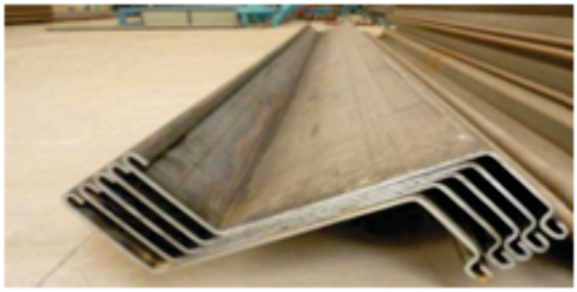
KIPL- Z Sheet Piles





Type	Width (mm)	Height (mm)	Thickness (mm)	Sectional Area (cm2/m)	Weight (Kg/m)	Weight (Kg/m2)	Moment of Inertia (cm4/m)	Modulus of section (cm3/m)
KIPL Z -400	400	185	8	175	40.20	100.50	12117	1310
KIPL Z -400	400	185	9	185	45.21	113.02	13364	1474
KIPL Z -400	400	185	10	205	50.55	126.37	15150	1637.77
KIPL Z -650	650	429	8	90.2	63.80	159.5	43293	1980
KIPL Z -650	650	429	9	101.1	71.60	179	48521	2220
KIPL Z -650	650	429	10	112.0	79.20	198	53709	2450
KIPL Z -675	675	392	6.5	70.5	51.30	128.25	27251	1370
KIPL Z -675	675	392	7	76.1	55.16	137.9	29281	1470
KIPL Z -675	675	392	8	86.9	62.80	157	33350	1670
KIPL Z -685	685	392	8.5	92.1	67.70	169.25	35558	1780
KIPL Z -685	685	392	9	97.6	71.50	178.75	37580	1880
KIPL Z -685	685	392	10	108.4	79.20	198	41601	2070
KIPL Z -700	700	419	7	111.9	61.5	87.8	30824	1471
KIPL Z -700	700	420	8	127.5	70.0	100.0	35074	1670
KIPL Z -700	700	419	9	158.6	87.10	124.5	47058	2246
KIPL Z -700	700	420	10	175.6	96.5	137.9	52095	2491

Application of Cold Formed Sheet Piles:

- Construction of docks and ports
- Waterways
- Breakwater
- Protection of river banks and channels
- Protection of construction pits in soil and water
- Bridge embankments
- Retaining walls
- Foundations
- Underground parking
- Underpasses, ramps and tunnels
- Slope protection
- Environmental protection and rubbish dumps
- Noise barriers
- Enclosure of contaminated soils
- Civil and industrial sites
- Civil defense
- Military engineering

Metal Crash Barrier (Guardrails)

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Strength

- One of the pioneers in manufacturing and commissioning engineering products and services and infrastructural set up.
- Backward integration of resources: self-owned dedicated in-house manufacturing plants with world class technology.
- Manpower as an Asset-Our employees at KIPL possess rich experience, knowledge and on site expertise in commissioning and implementation.
- Safety and Quality is our prime religion –We develop and deliver products ensuring a healthy and safe experience to our customer.
- Service our clients with integrity, innovation, focus, customer service and safety oriented products for meeting construction, engineering and infrastructural needs.
- Customized business solutions for products and services.

Z Sheet Technical Specification

Type	S-Single D-Double	Thickness (MM)	Single Pile c/c Width (mm)	Height	Weight	Moment of Inertia (cm^4/m)	Section Modulus (S) cm^3
KIPL-Z-690	Per S Per D Per m of wall	6	690 1380	390	51.3 102.6 74.3	16944.6 33904.0 24568.1	869 1739 1260
KIPL-Z-690	Per S Per D Per m of wall	8	690 1380	390	68.3 136.5 98.9	22347.9 44714.2 32401.6	1146 2293 1662
KIPL-Z-695	Per S Per D Per m of wall	8	695 1390	392	68.6 137.3 98.8	22723.4 45474.0 32715.1	1159 2320 1669
KIPL-Z- 690	Per S Per D Per m of wall	10	690 1380	390	85.1 170.2 123.3	27579.9 55182.1 39987.0	1414 2830 2051
KIPL-Z-695	Per S Per D Per m of wall	10	695 1390	392	85.6 171.1	28045.4 56123.8	1431 2863
KIPL-Z695	Per S Per D Per m of wall	12	695 1390	392	103.4 206.8 148.8	33267.6 66584.1 47902.2	1697 3397 2444

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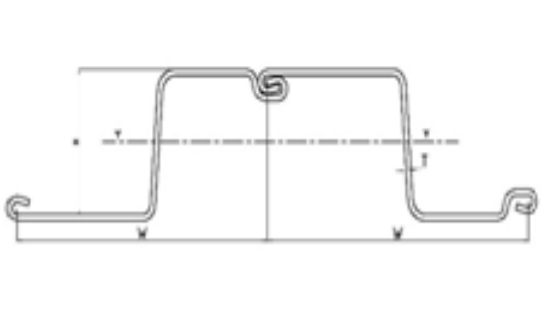
Z sheet Pile 400x185 MM Technical Specification



Type	S-Single D-Double	Thickness (MM)	Single Pile c/c Width (W)	Height	Weight (Kg./M)	Moment of Inertia (I) cm^4	Section Modulus (S) cm^3
KIPL-Z400	Per S Per D Per m of wall	7	400 800	185	41.2 82.4 103	2926.8 5853.7 7317.1	325 650 813
KIPL-Z400	Per S Per D Per m of wall	8	400 800	185	46.8 93.7 117.1	3290.6 6581.2 8226.5	366 732 915
KIPL-Z400	Per S Per D Per m of wall	10	400 800	200	92.9 185.8 109.3	856.2 1712.4 1007.3	787 1573 925

Tolerance

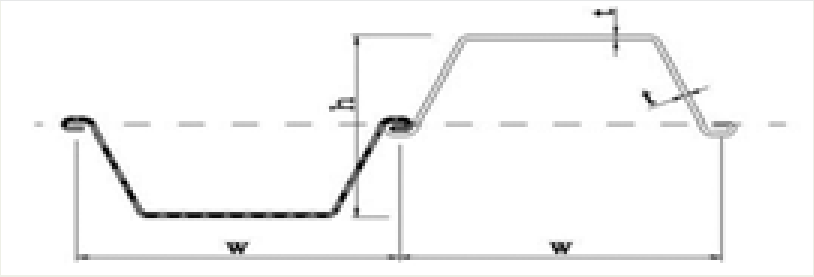
Characteristics	Figure	Nominal Size(mm)	Tolerance (mm)
Sectional Height (h)		150<h<200	±8
Sectional Width (w)		Single Pile Double Piles	±2% ±3%
Sectional Thickness (t)		6<t<8 8<t<10	±0.35 ±0.40
Bending Deflection		0.25%l	
Curving Deflection		0.25%l	
Twist Deflection		2%l	
Length(l)		±50	

Note : Any other size against specific requirement shall be manufactured up to 12 mm thickness.
U Type Sheet Pile Specification :

The inter-locked cold-formed steel sheet pile can be divided into three main types:

The Z- type sheet piles can beused to bear the heavy weight of independent pile wall. It has higher modulus of section. It is suitable to appliedZ- type sheet pile in bad soil condition or for repeatable usage soil condition.

The U-type sheet pile is the best choice for support usage. it has equal cross section, which is convenient for piling. Besides, it has wide piles back and enough strength per pile. It uses the curing side of sheet piles to fix joints.



Type	Width (mm)	Height (mm)	Thickness (mm)	Sectional Area (cm/m)	Weight (kg/m)	Weight (kg/m2)	Moment of Inertia (cm4/m)	Moculus of Section (cm3/m
KIPL U-450	450	360	8	148.6	48.29	107.34	18987.92	1055
KIPL U-450	450	360	9	165.9	54.62	120.164	21058.96	1170
KIPL U-450	450	360	10	182.9	61.14	135.88	22767.97	1265
KIPL U 600	600	360	8	131.4	57.71	96.21	20887.3	1160
KIPL U 600	600	360	9	149.5	65.22	112.76	23034.75	1280
KIPL U 600	600	360	10	182.4	72.67	121.11	25102.82	1395
KIPL U 650	650	480	8	138.5	67.54	103.82	40032	1668
KIPL U 650	650	480	9	156.1	76.41	117.54	45241.15	1935
KIPL U 650	650	480	10	179.1	85.11	130.98	46515.15	1935
KIPL U 700	700	558	11	217.1	119.3	170.5	83139	2980
KIPL-750	750	410	10	130	75	99.75	28650	1660
KIPL-U750	750	410	11.5	145	85	113.05	32850	1888
KIPL-U750	750	445	12	167	95	126.35	44430	2335
KIPL-U 750	750	560	11	210	118	157	97136	3152
KIPL-U 750	750	560	12	221	127	169	109112	3490

KHYATI
A TRADITION OF QUALITY

Metal Crash Barrier (Guardrails)

Metal Crash Barriers popularly known as Highway Guardrails are the need of today and tomorrow. With futuristic concepts emerging for ensuring safety and security of lives on road, metal crash barrier is an essential and crucial product in today's fast paced life. Metal crash barrier is specifically an element or infrastructural support for road safety which ensures safety and security of people and vehicles during unforeseen circumstances namely, road accidents or mishaps. Moreover, metal crash barriers are beneficial for drivers travelling in late nights. Metal crash barrier (GUARDRAILS) absorbs the impact of energy emitted from the collecting vehicle which thus results into minimization of risk and damage to vehicles and passengers. Hence, it diverts the vehicle from colliding to getting it post in balance on the roads. Components

Components

W-BEAM

Cold roll formed section
3mm 2.67mm thick HR sheet.
Fe 410/Fe 360 grade steel conforming to IS 5986 or IS 10748 or equivalent.
Hot dip galvanized - 550 gms/m? conforming to MORT&H (Ministry of Road Transport & Highways) and IS.

POST/SPACER

Anchored to foundation on Ground & Bridges
Channel section of 75x150x75x5mm.
5mm thick HR sheet.
Fe 410/Fe 360 grade steel conforming to IS 5986 or IS 10748 or IS 2062 or equivalent.
Hot dip galvanized 550gms/m? or 610gms/m? conforming to MORT&H (Ministry of Road Transport & Highways) and IS.

FASTENERS

Hot dip galvanized or electro galvanized bolts, nuts and washers. conforming to IS 1364 and IS 1367 of grade 4.6 MS.
16mm Día Button head bolts for W-beam to W-beam to spacer connection.
16mm Día Hexagonal head type bolts for spacer to post connection.

Application

- Highways, flyovers and bridges.
- High embankments/Sharp Curves.
- High density fast moving traffic areas in cities.
- Median barriers as road separators.
- Protection from trees, rocky areas etc.
- Hilly terrain, Ghats, curves, high embankments.
- Test tracks in automobile industry, factories, and mines.
- Mass housing complex, townships
- Airports, Railway stations and parking places.

Single Sided Crash Barrier

Single Sided Double Beam Crash Barrier

Thrie Beam Single Sided Crash Barrier

Single Sided Thrie Beam Crash Barrier with End Section

Our Production Capacity

KHYATI
A TRADITION OF QUALITY

- **Rolling Mill Division**

Plant	Product	Unit- I (TPM)	Unit - II (TPM)	Total (TPM)
Khyati Ispat	Structural Steel	7000	10000	17000
*TPM - Tonne Per Month				

- **Fabrication & Galvanizing**

Plant	Product	Fabrication (TPM)	Galvanizing (TPM)
Khyati Ispat	Structures	3000	3000
	Crash Barrier & Pilings	2500	
*TPM - Tonne Per Month			

IN-HOUSE TESTING FACILITIES

We have the following facilities for quality check & control.

- Full fledged Chemical laboratory
- Optical Emission Spectrometer
- Universal Testing Machine
- Impact Testing Machine
- Hardness Testing Machine
- Profile Projector Machine
- Galvanizing quality Testing

OUR PRODUCTS ARE MANUFACTURED IN FOLLOWING GRADES

INDIAN STANDARDS	IS - 2062 : 2011 MS - E - 250 A E - 250 BR/BO E - 250 C	HT - E - 350 A E - 350 BR/BO E - 350 C
EUROPEAN STANDARDS	BS EN - 10025-1 : 2004 MS - S - 275 JR S - 275 JO S - 275 J2	HT - S - 355 JR S - 355 JO S - 355 J2
AMERICAN STANDARDS	MS - ASTM - A36 / A 36m - 2014 ASTM - Gr. A36	HT - ASTM A572 / A572m - 2018 ASTM Gr. 50

TABLE-I

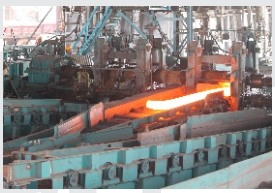
Grade Designation	Quality	Grade Designation						Method of Deoxidation
		C	Mn	S	P	Si	CE	
E 250 (MS)	A	9.23	1.50	0.045	0.045	0.40	0.42	Semi-Killed/Killed
	BR/BO	0.22	1.50	0.045	0.045	0.40	0.41	Semi-Killed/Killed
	C	0.20	1.50	0.040	0.040	0.40	0.39	Killed
E 350 (HT)	A/BR/BO	0.20	1.55	0.045	0.045	0.45	0.47	Semi-killed/Killed
	C	0.20	1.55	0.040	0.040	0.45	0.45	Killed

SALIENT FEATURE OF KHYATI'S STRUCTURES

1 IMPROVED PROCESS CONTROL	2 CONTROLLED COOLING	3 QUALITY CONTROL
LEADS TO		
Closer Dimensional Tolerance.	Lower Scale Formation.	Reliability/Dependability and Confidence.
RESULTING IN TO		
Better/Easier Engineering calculation	Prevent Oxidation for a longer period less costlier painting/Galvanizing.	Maximum return on investments & proserity in competitive market.

ACCREDITATIONS & APPROVALS

KHYATI ISPAT PRIVATE LIMITED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