

Khlouse
حديد خلوصي **STEEL**



Mission

To provide our customers with the best quality of Hot Dip Galvanized, Pre-Painted Steel, Pickled, Tubes, Pipes and Profiles.

Vision

To be one of the market leaders in the Middle East.

Values

- Continuous development.
- Honesty with our customers.
- Developing the local community.

Khrouse Steel

Khrouse Steel Group was established in 1987 by Mr. Khrouse Al Mallah. With constant effort and dedication it has grown now into one of the finest and most reliable groups in our region, Equipped with high precision machines operated by dedicated skilled workers.

Testing lab built in house, has facilitated in constant checking of material at every stage, ensuring the quality.

Khrouse Steel Group is committed to exceed its customer expectations with the highest quality products and services through total involvement and dedication, with regular monitoring of customer satisfaction in a different ways.

We welcome our customers to visit our group premises at anytime.



عن المجموعة

بدأت مجموعة حديد خلوصي عملها في أواسط ثمانينات القرن الماضي، و منذ ذلك الوقت يحتل إسم حديد خلوصي مكانة مميزة في السوق المحلي و الأسواق المجاورة.

عام ٢٠٠٦ قامت المجموعة بإنشاء أول مصنع لجلفنة الصاج في المملكة، بطاقة إنتاجية تقدر بـ ١٢٠٠٠٠ طن من الصاج المجلفن، حيث بدأ الإنتاج الفعلي في بداية عام ٢٠٠٨ .

لاقت الخطوة التي قامت بها المجموعة نجاحاً كبيراً في الأسواق العربية و المحلية من حيث توفير الصاج المجلفن وفق المواصفات المعتمدة عالمياً و بالقياسات و السماكات المطلوبة على الدوام. و كون المجموعة تتهمد مبدأ التطور الدائم و المستمر للمنتج و خطوط الإنتاج، فقد قامت بتركيب خطوط إنتاج جديدة لإنتاج الصاج المسبق الطلاء (PPGI) و الصاج المغسول (Pickled & Oiled).

تعتبر هذه الخطوة تقدماً كبيراً في مسيرة مجموعة حديد خلوصي، حيث أنها السبابة دائماً في تصنيع و توريد المنتجات الحديدية المسطحة وفق أعلى المواصفات المعمول بها عالمياً.

لقد حققت مجموعة حديد خلوصي إنجازات عديدة في مجال الصناعة في المملكة، و تسعى دائماً لرشد هذا القطاع بأحدث الخبرات و التكنولوجيا المتوفرة من خلال تبادل للخبرات مع أكبر الشركات العالمية المختصة.



Future Vision

Khrouse Steel group seek the opportunities to build solid steps for the future of its business.

After the successes achieved in the galvanizing industry, the group focused on integrating the production chain by installing a pickling and color coating line.

This step came to improve and increase the span of supply of flat steel products and to complete the chain of production.

Color Coating Line with production capacity of 65,000 Mt/year, thicknesses from 0.16 – 1.2 mm complied with the international standards.

Pickling line with production capacity of 250,000 Mt/year, thicknesses from 1.5 – 4.0 mm complied with the international standards.

Product Range:



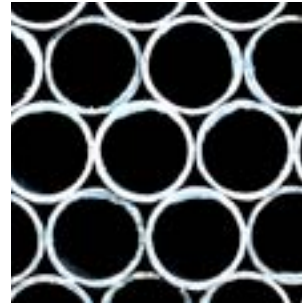
Galvanized
Coils/Sheets



Color Coated
Coils/Sheets



Pickled & Oiled
Coils/Sheets



Tubes/pipes



S-Sections/Profiles

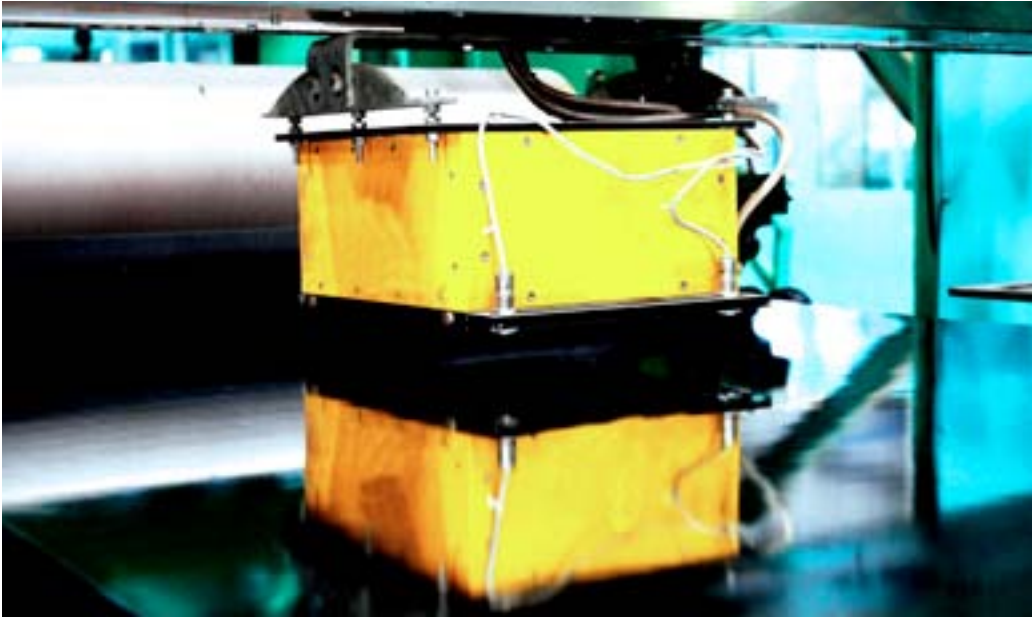
Khrouse Steel now considered a well known member in ASTM organization and Galvanizers Association and with a continuous stress on innovation and improvement, the group looks forward to be an effective member in the related international organizations around the world.



Hot Dip Galvanized Coils.

Products Specification

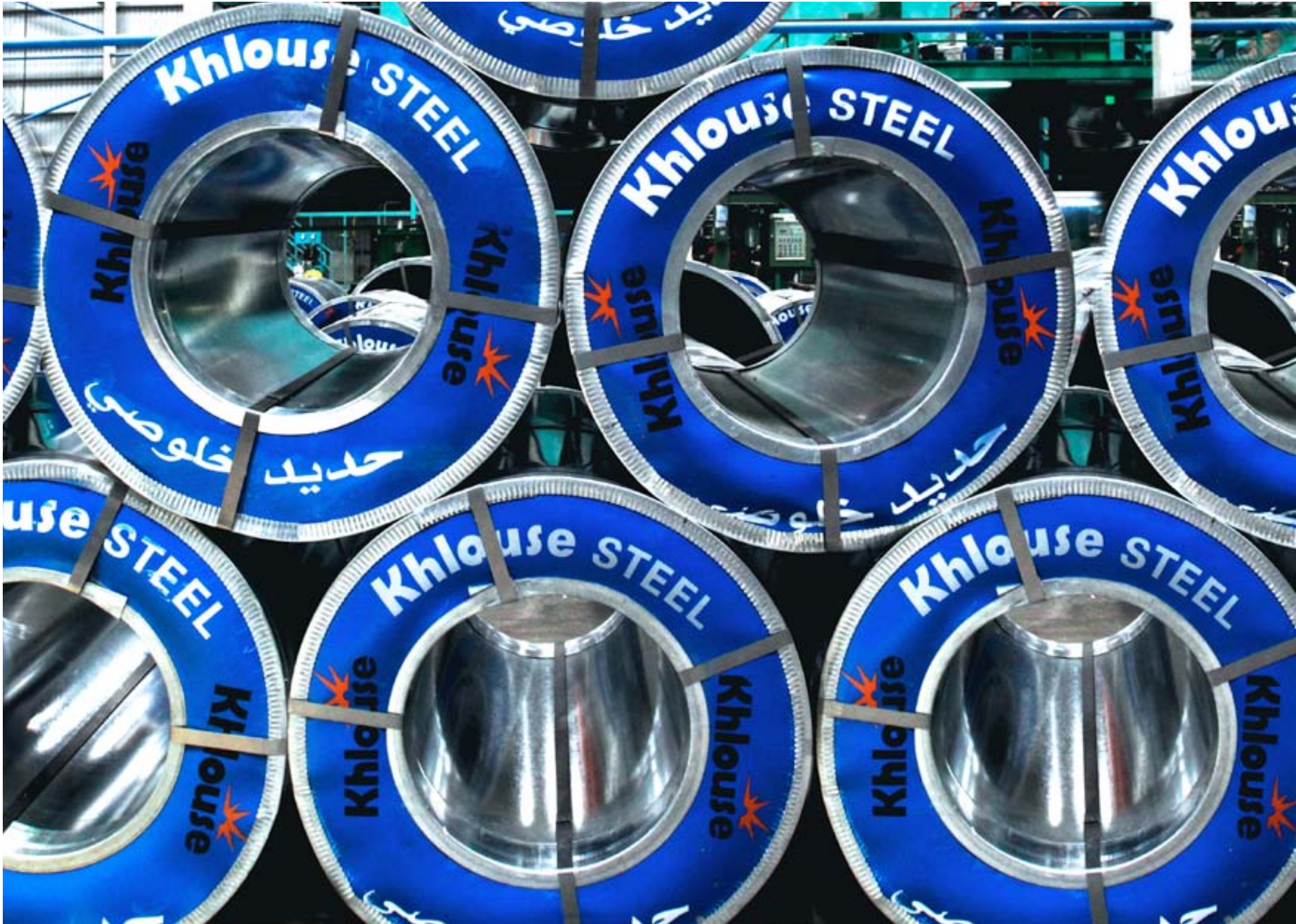
Thickness	0.3 – 2.00 mm
Width	800 – 1250 mm
Coil I.D	610 mm
Grades	CQ/DQ as per JIS/EN/ASTM Standards
Coating weight	100 – 350 g/m2
Surface Finish	Regular spangle / zero spangle
Surface treatment	Chromated / Oiled (optional)
Coil weight	7 – 12 Mt



Coating gauges:

Coating designation	Coating thickness for total both sides (oz/ft2)	Coating thickness for total both sides (gm/m2)
G40	0.4	120
G60	0.6	180
G90	0.9	275
G115	1.15	350

Zinc Coating (Both Sides)						
Zn Coating Mass(gm)	ASTM A653		EN 10142		JIS G 3302	
	Triple Spot Test	Single Spot Test	Triple Spot Test	Single Spot Test	Triple Spot Test	Single Spot Test
90	90	75	-	-	-	-
100	-	-	100	85	100	85
120	120	90	-	-	120	102
140	-	-	140	120	-	-
180	180	150	-	-	180	153
200	-	-	200	170	200	170
275	275	235	275	235	275	234
350	300	300	350	300	350	298



Base Metal Standard:

Standard	EN	DIN	ASTM	JIS
Classification	EN 10147 (2000)	17162	A653	G3302
Commercial Quality (CQ)	DX51D+Z	St02Z	CS type A	SGCC

Chemical Properties:

Steel designation	Maximum percentage of element by mass							
Element	C%	Mn%	P%	S%	Cu%	Ni%	Cr%	Mo%
Commercial quality (CQ)	0.10	0.60	0.03	0.035	0.20	0.20	0.15	0.06

Khrouse Steel Products

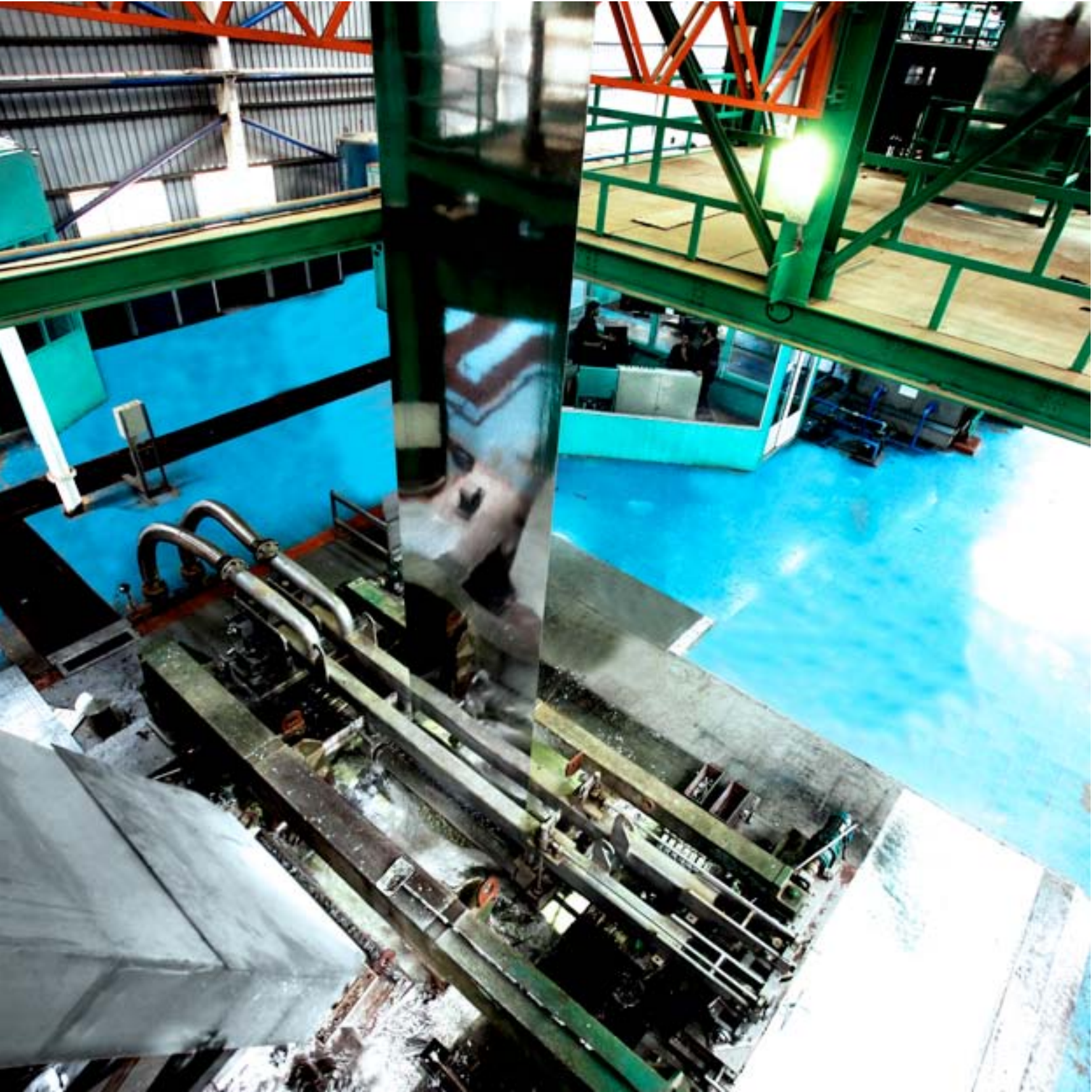
Mechanical properties:

The final production is complied with the Japan Industrial Standards (JIS), American society for testing and materials (ASTM) and Euro norm (EN).

Mechanical Properties						
JIS G 3302						
Product Designation	Yield Strength N / mm2	Tensile Strength N/mm2	% Elongation (Minimum)			
			Nominal Thickness			
			0.25 – 0.40	0.40 – 0.60	0.60 – 1.00	1.00 – 1.50
SGCC	-	-	-	-	-	-
SGCH	-	-	-	-	-	-
SGCD1	-	270 Min	-	34	36	37
SGC340	245 Min	340 Min	(20)	20	20	20
SGC570	560 Min	570 Min	-	-	-	-

Mechanical Properties			
ASTM A 653			
Product Designation	Yield Strength MPa	Tensile Strength MPa	% Elongation (Minimum)
			All Thickness
CS Type A	(170 – 380)	-	>20
CS Type B	(205 – 380)	-	>20
CS Type C	(170 – 410)	-	>20

Mechanical Properties				
EN 10142				
Product Designation	Yield Strength N / mm2	Tensile Strength N/mm2	% Elongation (Minimum)	
			Nominal Thickness	
			< 0.70 mm	0.7 mm – 1.5 mm
DX51D	-	270 – 500	20	22
DX52D	140 – 300	270 – 420	24	26





Khlosure Steel Products

Bending Test:

Product thickness (mm)	Number of bends (mm)
0.30 – 0.80	8
0.80 – 1.20	5
1.20 – 2.00	3

Surface treatment:

Treatment	Description
Chemical Passivation	(C):Normal Chromate Coating
Oiling	(O): Protective Anti-rust oil
Surface Quality	Skin passed

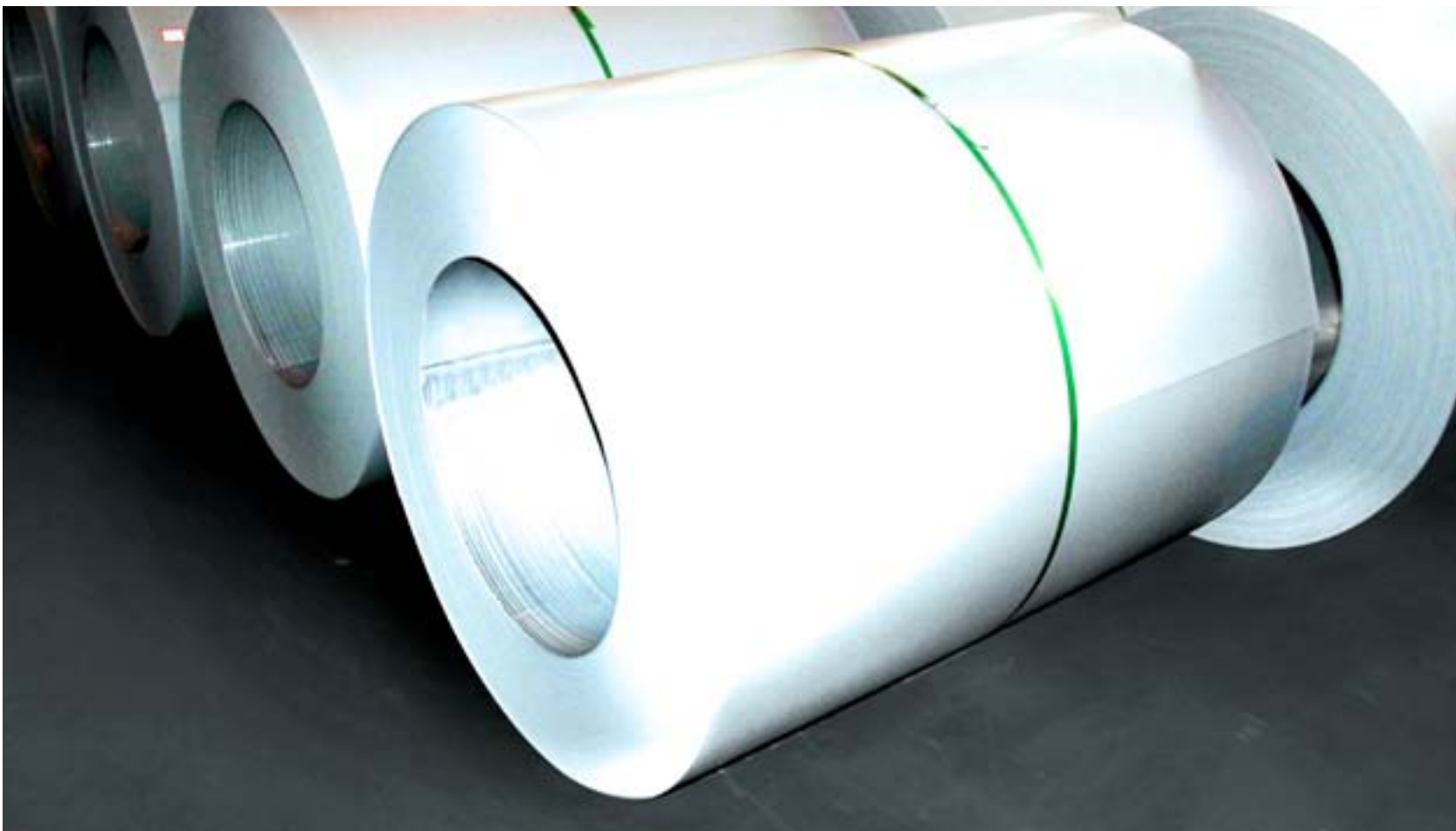
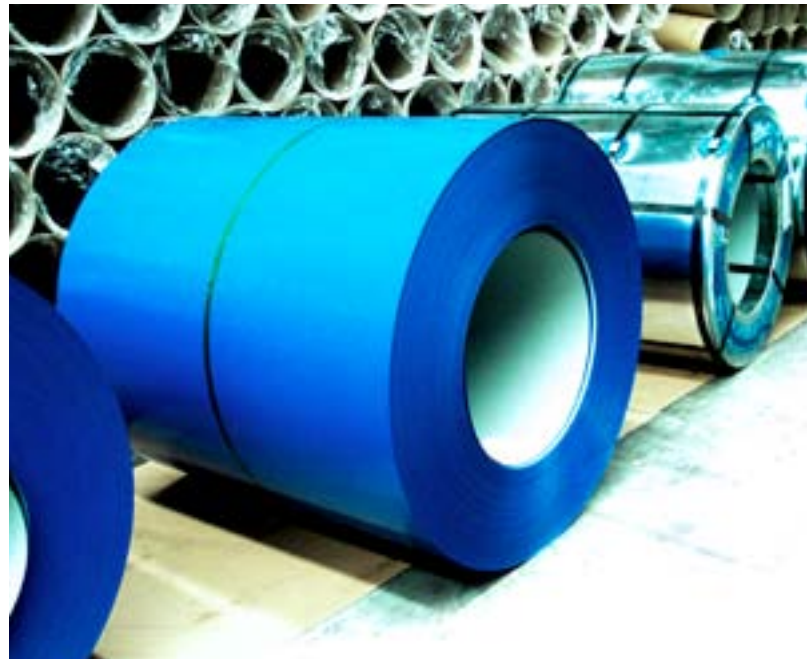
Packaging

Domestic supply (G.I):

- Rust proof paper, VCI.
- Inner and outer rings.
- Edge protectors.

Export Packaging (G.I):

- Rust Proof Paper, VCI.
- Cardboard body, edge protectors.
- Steel body wraps.
- Steel edge protectors (outer).
- Steel ring protector (inner).



Pre-painted Product Specification

Raw Material	Hot Dip Galvanized, Cold Rolled Steel
Thickness	0.16 – 1.2 mm
Width	600 – 1250 mm
Coil I.D	610 mm / 508 mm
Capacity	70,000 Mt/year
Paints	Epoxy, Acrylic, Polyester



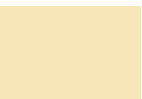





Domestic Supply (PPGI):

- Coil weight (3 – 7 tons).
- VCI Paper.
- Vertical Packaging.
- Packed on wooden pallets.

Export Supply:

- Coil weight (3 – 7 tons).
- VCI paper.
- Steel body wraps.
- Cardboard body, edge protectors.
- Steel edge protectors (outer).
- Steel ring protector (inner).
- Vertical packaging.
- Packed on wooden pallets.

This chart is to be used as a guide only
Colors may appear slightly different

RAL 9010		Pure White
RAL 9001		Cream
RAL 1015		Light Ivory
RAL 1014		Ivory
RAL 7040		Window Grey
RAL 5012		Light Blue
ACR White		White
ACR Red		Red

*Other colors can be produced upon request



Pickled Steel Specification

Raw Material	Hot Rolled Steel
Thickness	1.5 – 4.5 mm
Width	800 – 1300 mm
Coil I.D	610 mm, 710 mm



Khlosure Steel Products

With more than 15 lines dedicated for tubes and pipes production, Khlosure Steel Group is considered one of the largest suppliers in this field.

Cumulative experience, growing customer base in the local and regional market had established a well known name in tubes & pipes manufacturing.

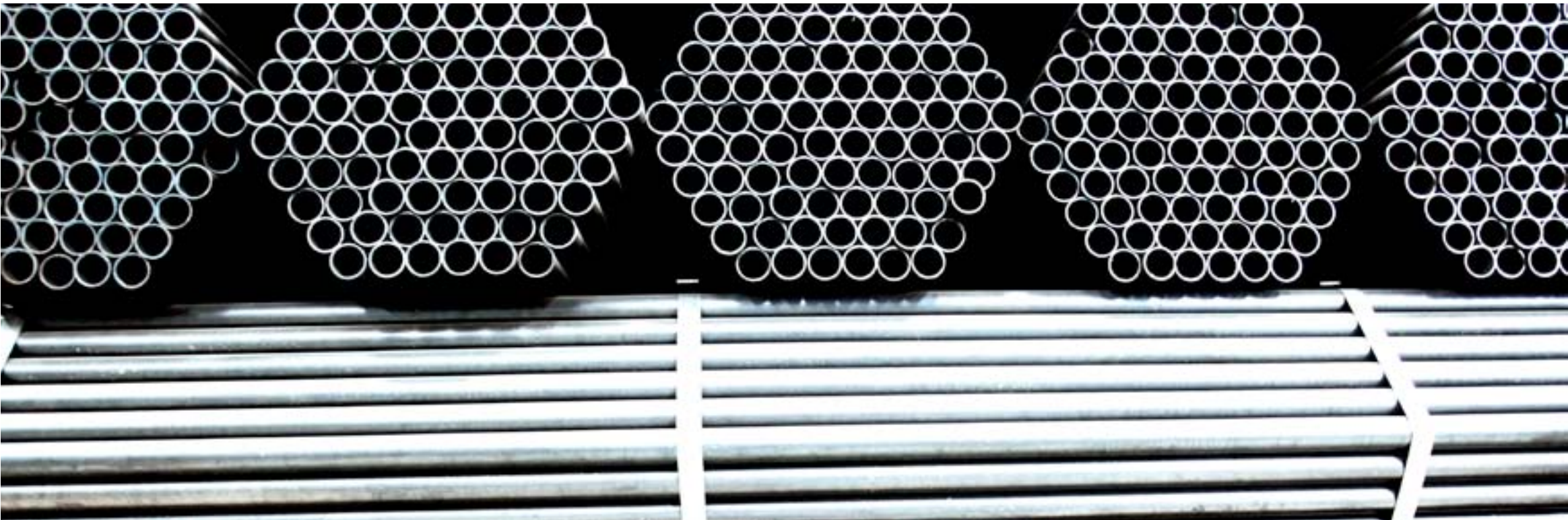
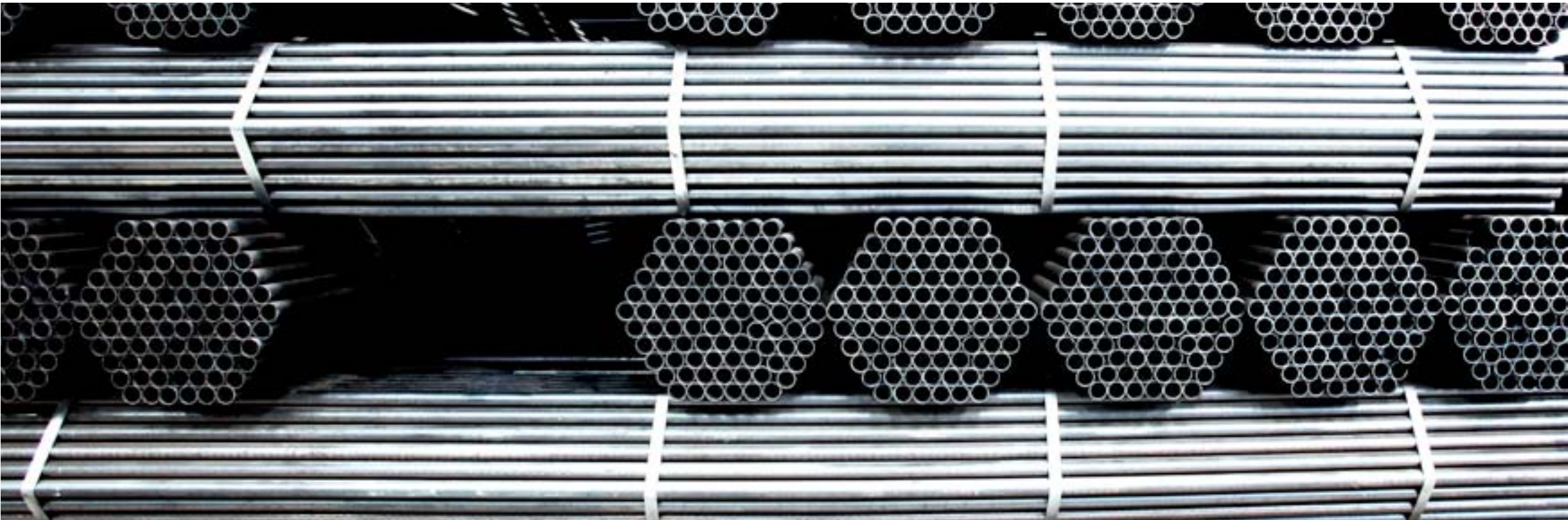
Production capacity exceeds 10,000 Mt / month from different type of hollow sections, square & rectangle tubes and pipes.

Product Range & Sizes:

Pipes

Weight (kg) of 6 m long pipe:

Size / Thickness (mm)	0.7	0.8	0.9	1	1.1	1.2	1.3	1.35	1.4	1.5	1.8	2	2.4	2.5	2.8	3	3.5	4
1/2	2.1	2.4	2.7	3	3.3	3.6	3.9	4	4.2	4.5	4.5	6	*	*	*	*	*	*
3/4	2.6	3	3.4	3.8	4.1	4.5	4.9	5	5.3	5.7	5.7	7.5	*	*	*	*	*	*
1	3.3	3.8	4.2	4.7	5.2	5.7	6.1	6.4	6.6	7	7	9.4	11.3	11.7	13.1	*	*	*
38	4	4.5	5	5.7	6.2	6.8	7.3	7.6	7.9	8.5	8.5	11.3	13.5	14.1	15.8	*	*	*
1.25	4.2	4.8	5.4	6	6.6	7.2	7.7	8	8.4	9	9	12	14.3	14.9	16.7	*	*	*
1.5	4.9	5.6	6.3	7	7.7	8.4	9	9.4	9.8	10.5	10.5	13.9	16.7	17.4	19.5	20.9	*	*
2	6.2	7	7.9	8.8	9.6	10.5	11.4	11.9	12.3	13.1	13.1	17.5	21	21.9	24.5	26.2	*	*
2.5	7.8	9	10.1	11.2	12.4	13.5	14.6	15.2	15.8	16.9	16.9	22.5	27	28.1	31.5	33.7	*	*
3	9	10.2	11.5	12.8	14.1	15.4	16.7	17.4	18	19.3	19.3	25.7	30.8	32	36	38.5	45	51.4
3.5	10.6	12	13.5	15	16.5	18	19.5	20.3	21.1	22.6	22.6	30.1	36.2	37.6	42.2	45.2	52.7	60.2
4	11.6	13.3	14.9	16.6	18.2	20	21.6	22.4	23.2	24.9	24.9	33.2	39.9	41.5	46.5	49.8	58.2	66.5
5	14.3	16.3	18.4	20.4	22.5	24.5	26.6	27.6	28.6	30.7	30.7	40.9	49.1	51.2	57.3	61.4	71.7	81.9
6	16.9	19.3	21.7	24.1	26.5	29	31.4	32.6	33.8	36.2	36.2	48.3	57.9	60.4	67.6	72.4	84.5	96.6



Khrouse Steel Products

S-Sections:

Weight (Kg) of 6 m long profiles:

Type / Thickness (mm)	0.7	0.8	0.9	1	1.1	1.2	1.3	1.35	1.4	1.5	1.8	2
S 44	4.95	5.7	6.4	6.4	8	8.5	9.2	9.5	9.9	10.6	12.7	14.1
S 43	5.9	6.7	7.6	7.6	9.3	10.2	11	11.4	11.9	12.8	15.3	16.9
S 42	5.9	6.8	7.6	7.6	9.3	10.2	11	11.5	11.9	12.8	15.3	16.9
S 26	7.6	8.7	9.8	9.8	11.9	13	14	14.6	15.2	16.2	19.5	21.7
S 27	4.6	8.7	9.8	9.8	11.9	13	14	14.6	15.1	16.2	19.5	21.7
S 28	6.6	7.5	8.5	8.5	10.4	11.3	12.2	12.8	13.2	14	17	18.8
S 41	8.2	9.4	10.6	10.6	13	14	15.3	15.9	16.5	17.7	21.2	23.5

Square Tubes:

Weight (Kg) of 6 m long Tube:

Size(mm) / Thickness (mm)	0.7	0.8	0.9	1	1.1	1.2	1.3	1.35	1.4	1.5	1.8	2
16 X 16	2	2.4	2.8	3	3.3	3.6	3.9	4	4.2	4.5	5.4	6
20 X 20	2.6	3	3.3	3.8	4	4.5	4.9	5	5.3	5.7	6.8	7.5
25 X 25	3.3	3.8	4.2	4.7	5.2	5.7	6	6.4	6.6	7	8.5	9.4
30 X 30	4	4.5	5	5.7	6.2	6.8	7.3	7.6	8	8.5	10.2	11.3
40 X 40	5.2	6	6.8	7.5	8.3	9	9.8	10.2	10.5	11.3	13.6	15
50 X 50	6.6	7.6	8.5	9.4	10.3	11.3	12.2	12.7	13.2	14.1	17	18.9
60 X 60	7.9	9	10.2	11.3	12.4	13.6	14.7	15.3	15.8	17	20.3	22.6
80 X 80	10.5	12	13.6	15	16.6	18	19.6	20.3	21	22.6	27	30
100 X 100	13.2	15	17	18.8	20.7	22.6	24.5	25.4	26.4	28.3	33.9	37.7

Rectangle Tubes:

Weight (Kg) of 6 m long Tube:

Size(mm) / Thickness (mm)	0.7	0.8	0.9	1	1.1	1.2	1.3	1.35	1.4	1.5	1.8	2
20 X 40	4	4.5	5	5.7	6.2	6.8	7.3	7.6	7.9	8.5	10.2	11.3
25 X 50	5	5.7	6.4	7	7.8	8.5	9.2	9.5	9.9	10.5	12.8	14
30 X 60	5.9	6.8	7.6	8.5	9.3	10.2	11	11.5	11.9	12.8	15.3	17
40 X 80	7.9	9	10.2	11.3	12.4	13.6	14.7	15.3	15.8	17	20.3	22.6
50 X 100	9.9	11.3	12.7	14.1	15.5	17	18.4	19	19.8	21.2	25.4	28.3







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