SRK

WIRE MESH EXPERTS

Wire Screens

SRK

www.srkmetals.com

Table of Contents

SRK METALS

OUR HISTORY

SRK International is a leading high-tech organization and industrial cluster company based in India and UAE. Established in 2015, we have been at the forefront of innovation and excellence in our industry for over 8 years.

Our company comprises of one factory, boasting a vast production area spanning 4000 square meters. This state-of-the-art facility enables us to efficiently manufacture and deliver a wide range of products to meet the diverse needs of our clients

- **Best Quality Support**
- **Professional Expertise**
- **100% Quality Design**

Our CAPACITY

Metal Mesh Woven Supplier

01

Raw Material Inspection

We are able to create industrial metal mesh constructions with the complete range of specifications using contemporary weaving and production equipment.

02

Research & Development

Our R & D Expert team consisting of 5 plus experts in the metal mesh manufacturing industry. Most of these experts have more than 15 years of in industry experience of manufacturing ss wire mesh

03

Quality Management

SRK Metals is the Top Metal Mesh Supplier in gulf and asia focus more on the Product quality more than the profit.

04

Product Quality Inspection

All our products are certified under the ASTM and BS quality standards systems, making them suitable solutions for different types of industrial applications.

05

Manufacturing Capacity

"SRK is a huge brand for Woven Wire Mesh. Our Processing Plant is around 4000 square meters within excess of 200 sets of world-class facility of assembling

06

Equipments

Our total production area of 4000 sqms, weaving machines over 200 sets has enabled as an yearly production capacity over 4 million square meters.

Wire Screens - Basic principals

1. OBJECTIVE - The basic principles here presented, reflect the required Technical Information necessary to assure and simplify the communication between producer and customer, by guarantying that the correct products is supplied.

2. STANDARDIZATION - Right from our stepping stone in this industry, we have been practicing quality centric policies in our business approach. We believe in maintaining high standards of quality in the production line, no matter what the situation is. In order to achieve this, we keep a strict eye on the quality right from the starting till the end, procurement of materials, designing, manufacturing and packaging.

Unique set of parameters are set for a specific production process. We have appointed highly experienced senior professionals for conducting stringent testing on the raw materials and products in order to ensure finest quality at the end.

3. SPECIFICATION OF A SCREEN - The organized combination of these factors results in the specification of a wire screen.

Factors	Elements	Symbol	Unit	Standard
Technical 1	1.1 Type of weave	a letter	-	ISO 4783-3
	1.2 Aperture - nominal	w	mm	ISO 2194
Material 2	Quality 2.1 - High Carbon Steel - Stainless Steel	 HC SS	 mm mm	 ISO 8458-2 ISO 16143-3
	2.2 Wire diameter	d	mm	ISO 4782
Dimensions 3	3.1 Height (size)	H	cm	
	3.2 Length (size)	L	m	
	3.3 Overlap	L + 0,04	m	
	3.4 Tensioning Types	H / Ho / Hi / Hm	m	ISO 14315

4. SHORT REFERENCE - It is recommended to use a short but complete specification as per table 1.

5. DEFINITIONS - Type of weave – it can be considered the most important element in the structure of a wire screen, because the type of weave indicates the combination of the following combined factors:

a) The type of interlocking of the wires (It's symbolised by a letter, as per ISO 4783-3)

b) The shape of weft and weave wires

6. TENSION OF INDUSTRIAL WIRE SCREEN - It's the tension of the screen surface (between wires)

7. MATERIAL - The wire of the screen must be made of: High Carbon Steel (HC) / Stainless Steel (SS) / Or other weavable metals

8. WIRE SCREEN PANELS

Can be manufactured:

Without Hooks: H

With Hooks:

Ho – Measures Outside Hooks

Hi – Measures Inside Hooks

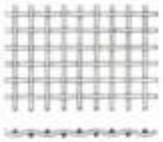
Hm – Inversed Hook

9. TENSION HOOKS – Can be: Transversal Tension (Crosswise) | Longitudinal Tension (end tension)

10. ENQUIRY / ORDER – SHORT SPECIFICATION

As Per Table 1	Type of Weave	Aperture W (mm)	Grade	Material Quality	Size d- mm	Dimensions Height X Length (cm x m)	Hook Type	Overlap	Quantity
Example	E	W 12,5	1	HC	4	Ho. 135 X 1,46	N	With or Without	

Wire Mesh

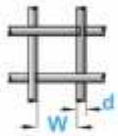


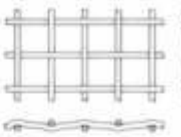
A TYPE ISO 4783

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	STEEL STAINLESS ISO 16143	WEIGHT Kg/m ²
1	0.63	38à	✓		3.1
1.25	0.71	41à	✓		3.3
	0.8	37à		✓	4
1.6	0.8	44à		✓	3.4
	1	38à		✓	4.9
2	1	44à	✓	✓	4.1
2.5	1.25	44à	✓	✓	5.3
	1.6	37à	✓		7.9
3.15	1.6	44à	✓	✓	6.8
3.55	2	41à	✓		9.2
4	1.8	48à		✓	7.1
	2	44à	✓		8.5
4.5	2.24	45à	✓		9.5
5	2	51à		✓	7.3
	2.5	44à	✓		10.6
	3.15	38à	✓		15.5
5.6	2.5	48à	✓		9.8
6.3	2	58à	✓		6.1
	2.24	54à		✓	7.5
	2.8	48à	✓		10.9
	3.15	44à	✓		13.3
7.1	2	61à	✓		5.6
	2.8	51à	✓		10.1
	3.15	48à	✓		12.3
8	2.5	58à		✓	7.6
	3.15	51à	✓		11.3
	4	44à	✓		16.9
9	3.15	55à	✓		10.4
10	3.15	58à		✓	9.6
	4	51à	✓		14.5
11.2	4	54à	✓		13.4
12.5	2.5	69à	✓		5.3
	4	57à	✓		12.3
14	2.5	72à	✓		4.8
	4	60à	✓		11.3
16	2.5	75à	✓		4.3
	4	64à	✓		10.2
25	4	74	✓		7.0

- Sieving E⊞ ciency
- Apertures precision
- Excellence in granulometric accuracy
- High Resistance

Test methods



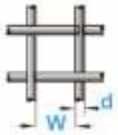


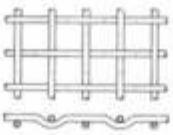
D TYPE ISO 4783

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m ²
18	5	61à	✓	14.2
20	5	64à	✓	13.1
22.4	5	67	✓	11.9
25	6.3	64à	✓	16.6
28	6.3	67	✓	15.1
31.5	6.3	69à	✓	13.7
31.5	8	67	✓	19.2
37.5	8	68à	✓	18.4
40	8	69à	✓	17.4
45	8	72à	✓	15.8
50	8	74	✓	14.4
56	8	77	✓	13.1
63	8	79à	✓	11.8
71	8	81à	✓	10.6
80	10	79à	✓	14.5
90	10	81à	✓	13.1
100	10	83à	✓	11.9

- Sieving E⊞ ciency
- Apertures precision
- Excellence in granulometric accuracy
- Enhanced resistance

Test methods



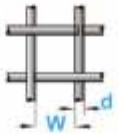


E TYPE ISO 4783

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m ²
12.5	5	51à	✓	18.4
14	5	54à	✓	16.7
16	5	58à	✓	15.1
18	6.3	55à	✓	20.7
20	6.3	58à	✓	19.2
22.4	6.3	61à	✓	17.6
25	8	57à	✓	24.6
26.5	8	59	✓	23.2
28	8	60à	✓	22.6
31.5	8	64à	✓	20.6
35.5	8	67	✓	18.7
40	8	69à	✓	16.9
	10	64à	✓	25.4
45	8	72à	✓	15.3
	10	67	✓	23.1
50	10	69à	✓	21.2
56	10	72à	✓	19.2
63	10	74	✓	17.4
	12.5	70	✓	26.3
71	10	77	✓	15.7
	12.5	72à	✓	23.8
80	10	79à	✓	14.1
	12.5	75à	✓	21.5
90	12.5	77	✓	19.4
100	12.5	79à	✓	17.6

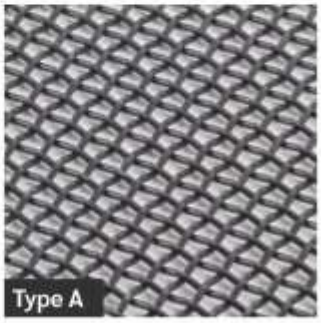
- Flat work surface
- Improved precision in larger apertures
- Granulometric accuracy
- Incremented life time

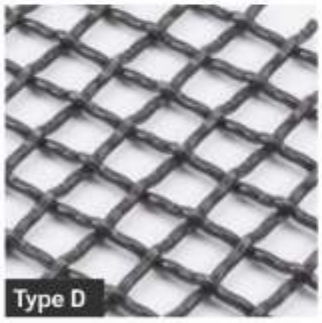
Test methods

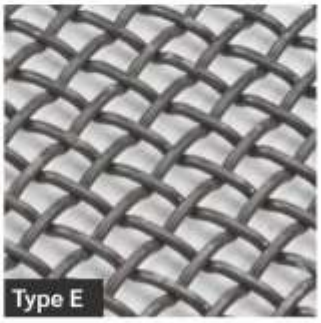


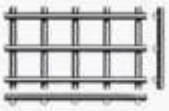
SOME WIRE SCREENS TYPES

Possibility to produce other combinations of ''W'' and ''d'' by special request.







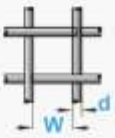


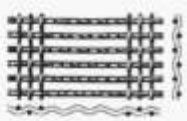
F TYPE ISO 4783

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m ²
106	12	81â	✓	15.2
112	12	82â	✓	14.5
125	12	83â	✓	13.1
140	16	81â	✓	20.4
160	16	83â	✓	18.1
180	16	84â	✓	16.3
200	16	86â	✓	14.8
250	12	91â	✓	6.8
360	12	94â	✓	4.8
400	12	94â	✓	4.4

- Improved precision in larger apertures
- Granulometric accuracy
- Incremented life time
- Recommended for larger weaves and thicker wires
- Welded wires

Test methods





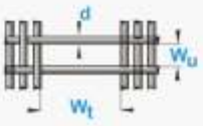
H TYPE DIN 4185/3

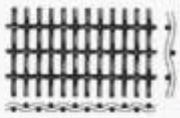
APERTURE Wt x Wu mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m ²
48 x 1.6	1	58â	✓	2.9
50 x 2	1 . 25	58â	✓	3.8
60 x 2.5	1 . 6	57â	✓	4.9
60 x 3.15	1 . 6	62â	✓	4.4
77 x 4	2	62â	✓	5.4
80 x 5	2 . 5	62â	✓	6.9
97 x 6.3	2 . 8	64â	✓	7.2
107 x 7.1	2 . 8	67	✓	6.7
118 x 8	3 . 15	67	✓	7.5
125 x 10	4	66â	✓	10

- Anti-clogging products with great plasticity
- Maximization of cubic products sieving
- Dual-use: flow and against flow
- Larger open area
- Production Increase
- Sieving of moist products
- Cleaning of lamellar or agglomerated products
- Fines removal

We can also produce in stainless steel

Test methods





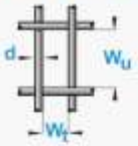
R TYPE DIN 4583/3

APERTURE Wt x Wu mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m ²
1.6 x 4.5	1	50â	✓	3.6
2 x 6	1	57â	✓	3.0
2.5 x 7.5	1 . 25	57â	✓	3.8
3.15 x 10	1 . 6	57â	✓	4.8
4 x 12	2	57â	✓	6.0
5 x 15	2 . 5	57â	✓	7.6
6.8 x 19	2 . 8	62â	✓	7.7
7.1 x 22.4	2 . 8	64â	✓	7.2
8 x 24	3 . 15	63â	✓	8.2
10 x 30	4	63â	✓	10.6
12.5 x 40	4	69â	✓	8.7
14 x 40	4	71â	✓	8.2
16 x 50	4	74	✓	7.2
18 x 55	5	72â	✓	9.8
20 x 60	6 . 3	69â	✓	13.8
20 x 100	8	66â	✓	18.8
22.4 x 71	6 . 3	72â	✓	12.4
22.4 x 120	8	69â	✓	17.0
25 x 50	6 . 3	71â	✓	12.9
25 x 120	8	71â	✓	16.0
28 x 120	8	73â	✓	14.9
31.5 x 120	8	75â	✓	13.9

- Maximization of cubic products sieving
- Dual-use: flow and against flow
- Larger open area
- Production Increase
- Sieving of moist products
- Cleaning of lamellar or agglomerated products
- Fines removal

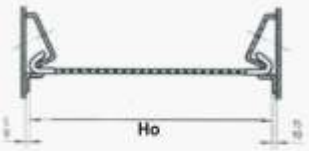
We can also produce in stainless steel

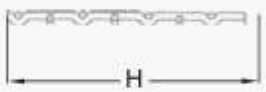
Test methods

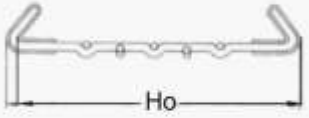


Tensioning Systems

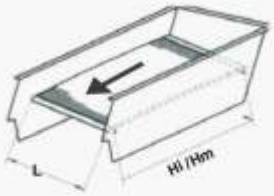
SIDE

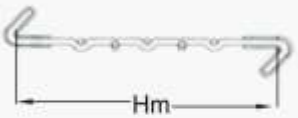


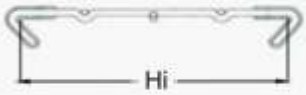




END

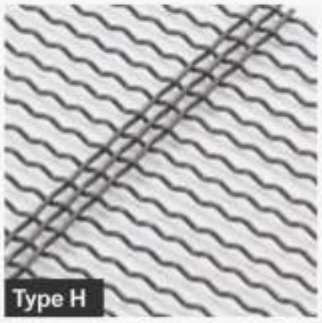


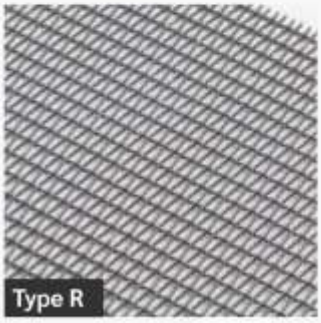




SOME WIRE SCREENS TYPES

Possibility to produce other combinations of "W" and "d" by special request.





Wire screen Panels can be manufactured:

Without Hooks: H

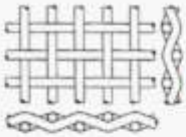
With Hooks:

Ho – Measures Outside Hooks

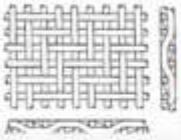
Hi – Measures Inside Hooks

Hm – Inverted Hooks

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	WEIGHT Kg/m2	STAINLESS STEEL ISO 16143	ALVANIZED STEEL ISO 16120-3
32	0.028	28	0.17	✓	
40	0.032	31	0.18	✓	
50	0.036	34	0.19	✓	
63	0.045	34	0.24	✓	
80	0.05	38	0.24	✓	
100	0.063	38	0.31	✓	
125	0.08	37	0.40	✓	
160	0.1	38	0.49	✓	
200	0.125	38	0.61	✓	
250	0.215	41	0.64	✓	
315	0.16	44	0.69	✓	
400	0.2	48	0.71	✓	
500	0.25	48	0.88	✓	
630	0.25	51	0.90		✓
	0.315	51	0.90	✓	
800	0.28	55	0.92		✓
	0.315	55	0.92	✓	
1	0.315	58	0.96		✓
	0.4	51	1.45	✓	
1.12	0.4	54	1.31	✓	
1.25	0.355	61	1.00		✓
	0.4	57	1.23	✓	
1.4	0.25	72	0.48	✓	✓
	0.5	54	1.68	✓	
1.6	0.4	64	1.02		✓
	0.5	58	1.51	✓	
	0.8	44	3.40	✓	
1.8	0.5	61	1.38	✓	
2	0.45	67	1.06		✓
	0.63	58	1.92	✓	
	1	44	4.20	✓	
2.24	0.63	61	1.76	✓	
2.5	0.5	69	1.06		✓
	0.71	61	1.99	✓	
	1.25	44	5.30	✓	
2.8	0.71	64	1.82	✓	
3.15	0.56	72	1.07		✓
	0.8	64	2.05	✓	
	1.6	44	6.80	✓	
3.55	0.8	67	2.31	✓	
4	0.63	75	1.00		✓
	1	64	2.54	✓	
	1.8	48	7.10	✓	
4.5	1	67	2.31	✓	
5	0.71	77	1.12		✓
	1.12	67	2.62	✓	
	2	51	7.30	✓	
5.6	1.12	69	2.37	✓	
6.3	0.8	79	1.14		✓
	1.25	70	2.65	✓	
	2.24	54	7.50	✓	
7.1	1.25	72	2.38	✓	
8	1	79	1.41		✓
	1.25	75	2.15	✓	
	2.5	58	7.60	✓	
10	1.25	75	1.77		✓
	1.6	74	2.82	✓	
	3.15	58	9.60	✓	

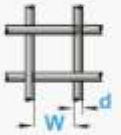


A TYPE
ISO 4783



S TYPE
ISO 4783

Test methods



Aperture (W)
ISO 2194--1991
-
Dimensions
Iqual or greather than 1 mm - - expressed in mm
-Less than 1 mm - expressed in microns (mic)

Wire Diam. (d)
ISO 4782
Based ISO 3

OBS:
-The value of W, for apertures/inches, it's indicative.
To exactly calculate the value of the apertures (W), use the following formulas:

IMPERIAL INCH = 25.4 mm

$$W = \frac{25.4}{\text{MESH}} - d$$

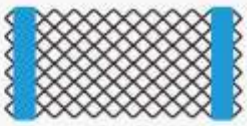
FRENCH INCH = 27.78 mm

$$W = \frac{27.78}{\text{NR}} - d$$

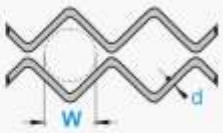
SOMEWOVENWIRECLOTHSANDFILTERSIMAGES

Self-Cleaning Screens

APERTURE W mm	WIRE DIAM. d mm	OPEN AREA %	HIGH CARBON STEEL ISO 8458	WEIGHT Kg/m2
2	1	44	✓	4.5
2.5	1.25	44	✓	5.3
3.15	1.4	48	✓	5.5
4	1.8	48	✓	7.2
4.5	1.4	58	✓	4.25
5	2	51	✓	7.3
6.3	2.24	54	✓	7.4
7.1	2.24	58	✓	6.7
8	2.5	58	✓	7.6
9	2.5	66	✓	10
10	2.8	61	✓	7.9
11.2	2.8	64	✓	7.5
12.5	2.8	67	✓	6.5
14	3.15	67	✓	7.6
16	3.15	70	✓	6.6
18	4	67	✓	9.2
20	4	69	✓	8.5
22.4	4	72	✓	7.7
25	5	69	✓	10.6
28	6	68	✓	13.5
31.5	6	71	✓	12.2
40	6	76	✓	9.9
45	6	78	✓	9.0

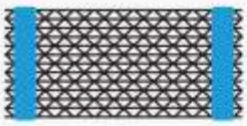


Q TYPE DIN 4185/3

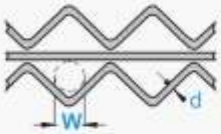


Test methods

- Flat surface
- Excellent level of production and duration
- Accuracy in Product Classification

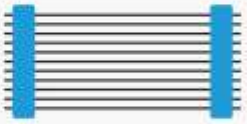


D TYPE DIN 4185/3

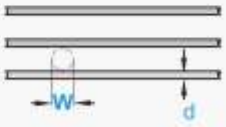


Test methods

- Flat surface
- Recommended for clogging products
- Extraordinary classification precision
- Recommended for heavy or large materials



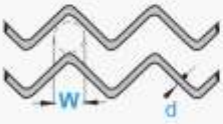
L TYPE DIN 4185/3



Test methods

- Flat surface
- Recommended for clogging products
- Excellent production level

Z TYPE DIN 4185/3

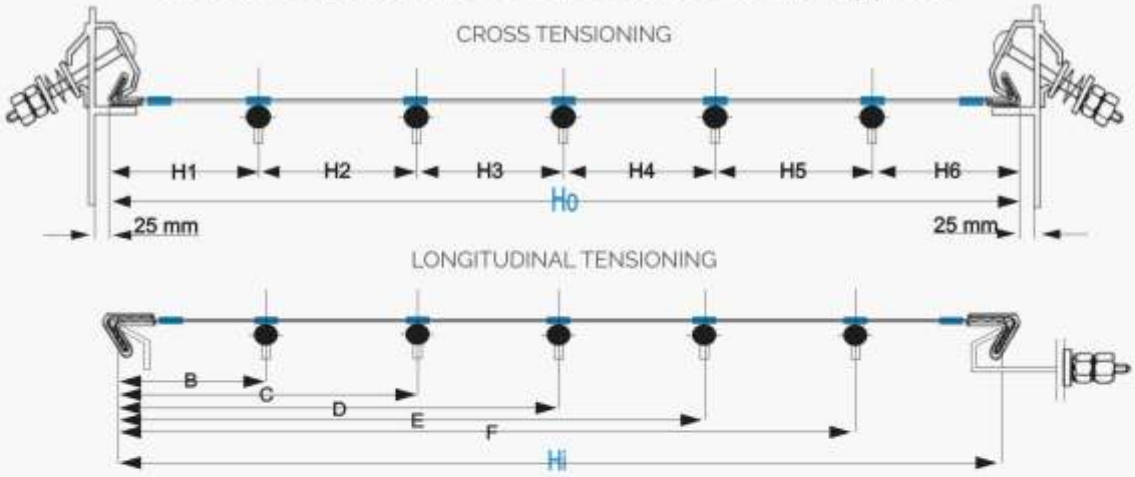


Test methods

- Flat surface
- Recommended for small or sticky products
- Large percentage of open area

We can also produce in stainless steel

Distances between centers of the screen supports



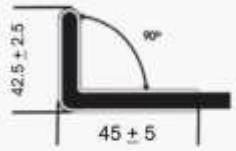
SOME SELF-CLEANING SCREENS IMAGES

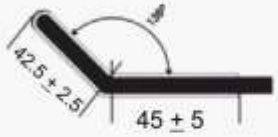
www.srkmetals.com

Fixing Systems

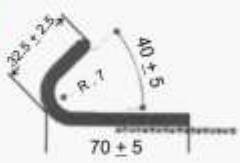
Z

N

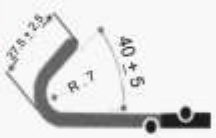




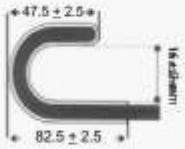
S



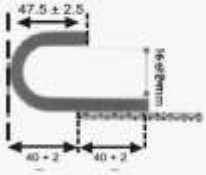
D



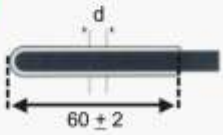
P



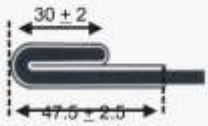
T



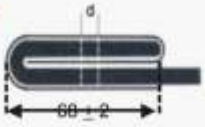
H



I



A



M

SOMETYPESOFHOOK


A


M


N


D


H


I


P


Z

Piano Wire Screens

Characteristics

APPLICATION FOR MOBILE SCREENS | HIGH PRODUCTIONS | ELIMINATE CLOGGING PROBLEMS

APERTURE	WIRE DIAMETER					
w (mm)	0.8	1	1.25	1.6	2	3.15
2	●					
3.15		●			●	
4		●			●	
5		●			●	
6.3			●		●	
8				●	●	
10				●	●	
12.5					●	
14						●
16						●
18						●
20						●

STEEL PIANO WIRE AND STAINLESS STEEL – EN-10088 – NR 1.4301 (AISI 304).
Other combinations Aperture/Wire upon request

WIRE MESH EXPERTS

SRK Metals FZE-LLC
Sales Office In UAE

Call Us 24/7
+971 543262309

Make A Quote
sales@srkmetals.com

www.srkmetals.com