



Emirerri

**Emirerri Steel Manufacturer
Private Limited**

**“Strength in Steel,
Trust in Quality”**



Who We Are?

Emirerri Steel, established in 2017, is a dynamic steel manufacturer serving a diverse range of industries across Africa, South America, the Middle East, and Asia. We are a major manufacturer and exporter of carbon steel and stainless-steel pipes, plates and pipe fitting products for the petrochemical, oil, gas, mining, fertilizers and nuclear industries.

Our product range includes flanges, elbows, tees, reducers, and caps made from stainless steel, carbon steel, alloy steel, duplex and super duplex steel, and nickel alloys. We pride ourselves on delivering high-quality Butt Weld Pipe Fittings and Forged Steel Fittings, meeting the stringent demands of various industries with precision engineering and a commitment to excellence.

Our Products

We specialize in a wide range of stainless steel and carbon steel including:

- Pipes
- Plates & Sheets
- Pipe fitting such as Elbows, Tees, Reducers, Caps, Flanges
- Expanded Metal

Each product is meticulously crafted to serve various industrial applications, ensuring durability, reliability, and seamless integration.

Our Commitment

Our core values revolve around quality, integrity, and customer-centricity. We are committed to:

- **Quality Assurance:** Rigorous quality control processes to ensure our products exceed industry standards.
- **Innovation:** Continuous improvement of our manufacturing processes and adoption of the latest technologies.
- **Customer Satisfaction:** Building lasting relationships with our clients through exceptional service and support.

Our Facility

Our state-of-the-art manufacturing facility is equipped with advanced machinery and technology. It adheres to stringent safety and environmental standards, reflecting our dedication to sustainable and responsible manufacturing practices.



About Us

Emirerri Steel Manufacturer Private Limited is recognized globally for its high standards in stainless and carbon steel pipes, plates and pipe fittings. Since our establishment in 2017, we have rapidly emerged as a trusted leader in the industry, known for our commitment to quality, innovation, and customer satisfaction. Founded with a vision to excel in the steel manufacturing industry, Emirerri Steel combines years of expertise with cutting-edge technology to deliver superior products. Our team consists of seasoned professionals with extensive industry knowledge and a passion for excellence, ensuring every product meets the highest standards of quality and precision.

Certificates of Excellence



**GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre**

Certificate of Incorporation

(Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014)

I hereby certify that EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED is incorporated on the Twenty first day of September Two thousand seventeen under the Companies Act, 2013 (18 of 2013) and the company is licensed to operate.

The Corporate Identity Number of the company is: U74998MH2017PC239944.

The Permanent Account Number (PAN) of the company is AAEECF968L.

Given under my hand at Mumbai the Twenty first day of September Two thousand seventeen.

Digital Signature Certificate
M/s. ANAGLI POKHRIYAL

For and on behalf of the Institutional Registry of Companies
Registry of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate neither a license nor permission to conduct business or collect deposits or funds from public. Possession of such registers is necessary whenever required. Registration status and other details of the company can be verified on www.mca.gov.in.

Mailing Address as per record available in Register of Companies office:
EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED,
8th, 6th Floor, JK Chamber, Plot No. 23, Sector-17, Vashi, Navi Mumbai,
Mumbai City, Maharashtra, India, 400703

* As issued by the Income Tax Department

Certificate of Compliance

We hereby declare that the technical file of product complies with the requirement of directive 2006/42/EC.

Applicant: EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED

Address: 8RD FLOOR, PLOT-29, 23, ANAND BHAVAN, SHAHID BHAGAT SINGH ROAD, FORT, MUMBAI CITY, MAHARASHTRA - 400001, INDIA.

Product: FLOWN ENDERRE BARS/RODS, THE LOW CARBON STEEL, HIGH STREEL STEEL, STAINLESS STEEL, CARBON STEEL FITTINGS, ALLOY STEEL, STEEL, STAINLESS STEEL, HIGH STREEL STEEL.

Complies with requirements applicable to:

The Certificate body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the car floor product. The quality system has been assessed, approved and is subject to continue surveillance according to the directive 2006/42/EC.

This certificate is issued under the following conditions:

- It applies only to the quality system established in the manufacture of above referenced products and it does not substitute the design or type inspection procedure, if any required.
- The certificate remains valid as long as the manufacturing conditions in the quality systems are unchanged.
- The certificate holder is responsible for ensuring compliance with applicable standards.
- After fulfilling the relevant CE legislation, the manufacturer staff, after to each state, of the above referenced models.

The CE mark or above above can be used, under the responsibility of the manufacturer, after completion of all CE legislation of certificate and compliance with all relevant CE directives. The statement is issued as a single evaluation of one sample of above mentioned product; it does not imply an assessment of the whole production.

To verify this certificate please visit www.ukas.com/24162251

Date of Certification: 17th June 2024
2nd Anniversary Date: 17th June 2025
Certificate Validity (under the provisions of the relevant CE legislation): 17th June 2026

Authorized Signatory

CAB Address: Merry Terrace Working, London F151 3EH UK. Validity of this certificate is subject to annual surveillance audits to be done successfully. This certificate is the property of U.K. Certification and shall be returned immediately on request U.S. Certification is an independent business practice and Personal assessment Body, U.S. Certification is a separate entity (U.S. CERTIFICATION).

**UDYAM
REGISTRATION CERTIFICATE**

Our small hands to make you a success

| TYPE OF ENTERPRISE | MSME | MANUFACTURING |
|--|---|---------------|
| UDYAM REGISTRATION NUMBER | UDYAM/MSME/MH/24 | |
| NAME OF ENTERPRISE | M/S EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED | |
| SOCIAL CATEGORY OF ENTREPRENEUR | General | |
| NAME OF OWNER | General | |
| OFFICE ADDRESS OF ENTERPRISE | 8th Floor, JK Chamber, Plot No. 23, Sector-17, Vashi, Navi Mumbai, Maharashtra - 400703 | |
| DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE | 21/09/2017 | |
| DATE OF COMMENCEMENT OF PRODUCE/EXPORT SERVICES | 21/09/2017 | |
| NATIONAL LIMITS CLASSIFICATION CODE | 24191000 | |
| DATE OF UDYAM REGISTRATION | 27/04/2024 | |

Disclaimer: This is computer generated document, no signature required. Please Print www.udyamregistration.gov.in

For any problems you may contact:

1. IFC: MUMBAI CITY
2. MUMBAI CITY: MUMBAI

BE A CHAMPION with the

Certificate of Compliance

This is to certify that

EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED
8RD FLOOR, PLOT-29, 23, ANAND BHAVAN, SHAHID BHAGAT SINGH ROAD, FORT, MUMBAI CITY, MAHARASHTRA - 400001, INDIA

has been found in compliance with requirement of

ISO 9001:2015
(Quality Management System)

For the following scope:

MANUFACTURER & EXPORTER OF STEEL MATERIALS

UNITED KINGDOM ACCREDITATION FORUM CERTIFICATION

Certification Calendar:
Certificate No : INQ/AN-15582/24316/9624 Issued on : 13-06-2024
Registered on : 13-06-2024 Expires on : 12-06-2027

United Kingdom Accreditation Forum Certification
14th, 2nd Floor, College House, 17 King Edwards Road, Finsley, London, SE18 4JG, United Kingdom, 0203 194 1242

Certificate of Compliance

This is to certify that

EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED
8RD FLOOR, PLOT-29, 23, ANAND BHAVAN, SHAHID BHAGAT SINGH ROAD, FORT, MUMBAI CITY, MAHARASHTRA - 400001, INDIA

has been found in compliance with requirement of

ISO 14001:2015
(Environmental Management System)

For the following scope:

MANUFACTURER & EXPORTER OF STEEL MATERIALS

UNITED KINGDOM ACCREDITATION FORUM CERTIFICATION

Certification Calendar:
Certificate No : INQ/AN-15588/24318/9624 Issued on : 13-06-2024
Registered on : 13-06-2024 Expires on : 12-06-2027

United Kingdom Accreditation Forum Certification
14th, 2nd Floor, College House, 17 King Edwards Road, Finsley, London, SE18 4JG, United Kingdom, 0203 194 1242

Certificate of Compliance

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EMIRERRI STEEL MANUFACTURER PRIVATE LIMITED
8RD FLOOR, PLOT-29, 23, ANAND BHAVAN, SHAHID BHAGAT SINGH ROAD, FORT, MUMBAI CITY, MAHARASHTRA - 400001, INDIA

has been found in compliance with requirement of

ISO 45001:2018
(Occupational Health and Safety Management System)

For the following scope:

MANUFACTURER & EXPORTER OF STEEL MATERIALS

UNITED KINGDOM ACCREDITATION FORUM CERTIFICATION

Certification Calendar:
Certificate No : INQ/AN-15581/24317/9624 Issued on : 13-06-2024
Registered on : 13-06-2024 Expires on : 12-06-2027

United Kingdom Accreditation Forum Certification
14th, 2nd Floor, College House, 17 King Edwards Road, Finsley, London, SE18 4JG, United Kingdom, 0203 194 1242

Global Leader



Standard we serve



| Standard Code | Standard Name | Standard Code | Standard Name |
|-------------------|--|---------------|---|
| ASME SA-403 | Wrought Austenitic Stainless Steel Piping Fittings | GOST 17375 | Steel Butt-welding Pipe Fittings, Elbows |
| ASME B-16.9 | Factory-Made wrought steel pipe fittings | GOST 17376 | Steel Butt-welding Pipe Fittings, tees |
| ASME SA-234 | Carbon and Alloy Steel Pipe Fittings | GOST 17378 | Steel Butt-welding Pipe Fittings, reducers |
| ASME SA-420 | Forged Carbon and Alloy Steel Pipe Fittings | GOST 17379 | Steel Butt-welding Pipe Fittings, Caps |
| ASME B16.11 | Socket-welding and Threaded Forging Fittings | GOST 12820 | Steel Flange |
| ASME B16.28 | Wrought Steel But-welding short radius elbows | GOST 12821 | Steel Flange |
| ASME B16.25 | Butt-welding Ends | DIN 2605 | Steel Butt-welding Pipe Fittings |
| ASTM A312/A315M | Cold Worked Austenitic Stainless Steel Pipes | DIN 2615 | Steel Butt-welding Pipe Fittings, Tees |
| ASME/ASTM A269 | Stainless Steel Tubing | DIN 2616 | Steel Butt-welding Pipe Fittings, Reducers |
| ASTM A999/A999M | Alloy and Stainless Steel Pipes | DIN 2617 | Steel Butt-welding Pipe Fittings, Caps |
| ASME/ANSI B36.19M | Stainless Steel Pipe | EN 10253 | Steel Pipe Fittings |
| ASTM A105/A105M | Carbon Steel Forgings for Piping Applications | EN 1092-1 | Steel Flange |
| ASTM A106/A106M | High Temperature Seamless Carbon Steel Pipe | GB/T 14976 | Stainless Steel Pipe |
| ASTM A335/A335M | Seamless Alloy-Steel Pipe for High-Temperature | GB/T 12459 | Steel Butt-welding Seamless Fittings |
| ASTM 182/A182M | Forged Alloy and Stainless Fittings, Flanges | GB/T 13401 | Steel Plate Butt-welding Pipe Fittings |
| ASTM 350/A350M | Carbon and Low Alloy Steel Forgings | GB/T 14383 | Forged Steel Socket-welding Pipe Fittings |
| ASTM A815/A815M | Stainless Steel Pipe Fittings | GB/T 14626 | Forged Steel threaded Pipe Fittings |
| ASTM A515/A515M | Carbon Steel Plate | SH 3065 | Specification for Tube Furnace Sharp Bend |
| MSS SP-43 | Wrought Stainless Steel Butt-welding Fittings | SH 3406 | Steel Pipe Flanges for Petrochemical Industry |
| MSS SP-75 | Forging Butt-welding fittings | SH 3408 | Steel Butt-welding Seamless Fittings |
| MSS SP-79 | Socket-welding reducing Inserts | SH 3409 | Steel Plate Butt-welding Pipe Fittings |
| MSS SP-83 | Stock-welding and threaded Unions | SH 3410 | Forged Steel Stock-welding Fittings |
| MSS SP-95 | Socket nipples and round plugs | ISO3419 | Non-Alloy Steel and Alloy Steel Butt-welding Fittings |
| MSS SP-97 | Forged Outlet | ISO 5251 | Stainless Steel Butt-welding Fittings |

Equivalent Grades



Stainless Steel (Ferritic, Martensitic)

| USA | Japan | Germany | | U. K. | | France | Italy | Spain | Sweden | China |
|----------|----------|---------|---------------|--------|---------|-------------|---------------|--------|--------|-------------|
| AISI/SAE | JIS | W-nr. | DIN | BS | EN | AFNOR | UNI | UNE | SS | GB |
| 403 | SUS403 | 1.4 | X7Cr13 | 403S17 | – | Z6C13 | X6Cr13 | F.3110 | 2301 | Ocr13 |
| | | | | 7 | | | | | | 1Cr12 |
| – | – | 1.4001 | X7Cr14 | – | – | – | – | F.8401 | – | – |
| 416 | SUS416 | 1.4005 | X12CrS13 | 416S21 | – | Z11CF13 | X12CrS13 | F.3411 | 2380 | – |
| 410 | SUS410 | 1.4006 | X10Cr13 | 410S21 | 56A | Z10C14 | X12Cr13 | F.3401 | 2302 | 1Cr13 |
| 430 | SUS430 | 1.4016 | X8Cr17 | 430S15 | 60 | Z8C17 | X8Cr17 | F.3113 | 2320 | 1Cr17 |
| – | SCS2 | 1.4027 | G-X20Cr14 | 420C29 | 56B | Z20C13M | – | – | – | – |
| – | SUS420J2 | 1.4034 | X46Cr13 | 420S45 | 56D | Z40CM | X40Cr14 | F.3405 | 2304 | 4Cr13 |
| | | | | | Z38C13M | | | | | |
| 405 | – | 1.4003 | – | 405S17 | – | Z8CA12 | X6CrAl13 | – | – | – |
| 420 | – | 1.4021 | – | 420S37 | – | Z8CA12 | X20Cr13 | – | 2303 | – |
| 431 | SUS431 | 1.4057 | X22CrNi17 | 431S29 | 57 | Z15CNi6.02 | X16CrNi16 | F.3427 | 2321 | 1Cr17Ni2 |
| 430F | SUS430F | 1.4104 | X12CrMoS17 | – | – | Z10CF17 | X10CrS17 | F.3117 | 2383 | Y1Cr17 |
| 434 | SUS434 | 1.4113 | X6CrMo17 | 434S17 | – | Z8CD17.01 | X8CrMo17 | – | 2325 | 1Cr17Mo |
| CA6-NM | SCS5 | 1.4313 | X5CrNi134 | 425C11 | – | Z4CND13.4M | (G)X6CrNi304 | – | 2385 | – |
| 405 | SUS405 | 1.4724 | X10CrA113 | 403S17 | – | Z10C13 | X10CrA112 | F.311 | – | Ocr13Al |
| 430 | SUS430 | 1.4742 | X10CrA118 | 430S15 | 60 | Z10CAS18 | X8Cr17 | F.3113 | – | Cr17 |
| HNV6 | SUH4 | 1.4747 | X80CrNiSi20 | 443S65 | 59 | Z80CSN20.02 | X80CrSiNi20 | F.320B | – | – |
| 446 | SUH446 | 1.4762 | X10CrA124 | – | – | Z10CAS24 | X16Cr26 | – | 2322 | 2Cr25N |
| EV8 | SUH35 | 1.4871 | X53CrMnNiN219 | 349S54 | – | Z52CMN21.09 | X53CrMnNiN219 | – | – | 5Cr2Mn9Ni4N |
| S44400 | – | 1.4521 | X1CrMoTi182 | – | – | – | – | – | 2326 | – |
| – | – | 1.4922 | X20CrMoV12-1 | – | – | – | X20CrMoNi1201 | – | 2317 | – |
| 630 | – | 1.4542 | – | – | – | Z7CNU17-04 | – | – | – | – |

Stainless Steel (Austenitic)

| USA | Japan | Germany | | U. K. | | France | Italy | Spain | Sweden | China |
|----------|----------|---------|---------------|---------|----------|------------------|---------------|--------|--------|----------------|
| AISI/SAE | JIS | W-nr. | DIN | BS | EN | AFNOR | UNI | UNE | SS | GB |
| 403 | SUS403 | 1.4 | X7Cr13 | 403S17 | – | Z6C13 | X6Cr13 | F.3110 | 2301 | Ocr13 1Cr12 |
| – | – | 1.4001 | X7Cr14 | – | – | – | – | F.8401 | – | – |
| 416 | SUS416 | 1.4005 | X12CrS13 | 416S21 | – | Z11CF13 | X12CrS13 | F.3411 | 2380 | – |
| 410 | SUS410 | 1.4006 | X10Cr13 | 410S21 | 56A | Z10C14 | X12Cr13 | F.3401 | 2302 | 1Cr13 |
| 430 | SUS430 | 1.4016 | X8Cr17 | 430S15 | 60 | Z8C17 | X8Cr17 | F.3113 | 2320 | 1Cr17 |
| – | SCS2 | 1.4027 | G-X20Cr14 | 420C29 | 56B | Z20C13M | – | – | – | – |
| – | SUS420J2 | 1.4034 | X46Cr13 | 420S45 | 56D | Z40CM | X40Cr14 | F.3405 | 2304 | 4Cr13 |
| | | | | | | Z38C13M | | | | |
| 405 | – | 1.4003 | – | 405S17 | – | Z8CA12 | X6CrAl13 | – | – | – |
| 420 | – | 1.4021 | – | 420S37 | – | Z8CA12 | X20Cr13 | – | 2303 | – |
| 431 | SUS431 | 1.4057 | X22CrNi17 | 431S29 | 57 | Z15CNi6.02 | X16CrNi16 | F.3427 | 2321 | 1Cr17Ni2 |
| 430F | SUS430F | 1.4104 | X12CrMoS17 | – | – | Z10CF17 | X10CrS17 | F.3117 | 2383 | Y1Cr17 |
| 434 | SUS434 | 1.4113 | X6CrMo17 | 434S17 | – | Z8CD17.01 | X8CrMo17 | – | 2325 | 1Cr17Mo |
| CA6-NM | SCS5 | 1.4313 | X5CrNi134 | 425C11 | – | Z4CND13.4M | (G)X6CrNi304 | – | 2385 | – |
| 405 | SUS405 | 1.4724 | X10CrA113 | 403S17 | – | Z10C13 | X10CrA112 | F.311 | – | Ocr13Al |
| 430 | SUS430 | 1.4742 | X10CrA118 | 430S15 | 60 | Z10CAS18 | X8Cr17 | F.3113 | – | Cr17 |
| HNV6 | SUH4 | 1.4747 | X80CrNiSi20 | 443S65 | 59 | Z80CSN20.02 | X80CrSiNi20 | F.320B | – | – |
| 446 | SUH446 | 1.4762 | X10CrA124 | – | – | Z10CAS24 | X16Cr26 | – | 2322 | 2Cr25N |
| EV8 | SUH35 | 1.4871 | X53CrMnNiN219 | 349S54 | – | Z52CMN21.09 | X53CrMnNiN219 | – | – | 5Cr2Mn9Ni4N |
| S44400 | – | 1.4521 | X1CrMoTi182 | – | – | – | – | – | 2326 | – |
| – | – | 1.4922 | X20CrMoV12-1 | – | – | – | X20CrMoNi1201 | – | 2317 | – |
| 630 | – | 1.4542 | – | – | – | Z7CNU17-04 | – | – | – | – |
| 309 | SUH309 | 1.4828 | X15CrNiSi2012 | 309S24 | – | Z15CNS20.12 | X6CrNi2520 | – | – | 1Cr23Ni13 |
| 310S | SUH310 | 1.4845 | X12CrNi2521 | 310S24 | – | Z12CN2520 | X6CrNi2520 | F.331 | 2361 | Ocr25Ni20 |
| 308 | SCS17 | 1.4406 | X10CrNi18.08 | – | 58C | Z1NCDU25.20 | – | F.8414 | 2370 | – |
| – | – | 1.4418 | X4CrNiMo165 | – | – | Z6CND16-04-01 | – | – | – | – |
| 17-7PH | – | 1.4568 | – | 316S111 | – | Z8CNA17-07 | X2CrNiMo1712 | – | – | – |
| | | 1.4504 | | | | | | | | |
| NO8028 | – | 1.4563 | – | – | – | Z1NCDU31-27-03 | – | – | 2584 | – |
| S31254 | | | | | | Z1CNDU20-18-06AZ | | | 2378 | |
| 321 | SUS321 | 1.4878 | X12CrNiTi189 | 321S32 | 58B, 58C | Z6CNT18.12B | X6CrNiTi18 11 | F.3523 | – | 1Cr18Ni9Ti |

Steel Pipes



Equivalent Grades



Carbon Steel

| USA | Japan | Germany | | U. K. | | France | Italy | Spain | Sweden | China |
|----------|-----------|---------|----------|-----------|--------|-----------|------------|-----------|--------|-------|
| AISI/SAE | JIS | W-nr. | DIN | BS | EN | AFNOR | UNI | UNE | SS | GB |
| A570.36 | STKM 12A | 1.0038 | RSt.37-2 | 4360 40 C | – | E 24-2 Ne | – | – | 1311 | 15 |
| STKM 12C | | | | | | | | | | |
| 1015 | – | 1.0401 | C15 | 080M15 | – | CC12 | C15, C16 | F.111 | 1350 | 15 |
| 1020 | – | 1.0402 | C22 | 050A20 | 2C | CC20 | C20, C21 | F.112 | 1450 | 20 |
| 1213 | SUM22 | 1.0715 | 9SMn28 | 230M07 | 1A | S250 | CF9SMn28 | F.2111 | 1912 | Y15 |
| | | | | | | | 11SMn28 | | | |
| 12L13 | SUM22L | 1.0718 | 9SMnPb28 | – | – | S250Pb | CF9SMnPb28 | 11SMnPb28 | 1914 | – |
| – – | 1.0722 | 10SPb20 | – | – | 10PbF2 | CF10Pb20 | 10SPb20 | – | – | |
| 1215 | – | 1.0736 | 9SMn36 | 240M07 | 1B | S300 | CF9SMn36 | 12SMn35 | – | Y13 |
| 12L14 | – | 1.0737 | 9SMnPb36 | – | – | S300Pb | CF9SMnPb36 | 12SMnP35 | 1926 | – |
| 1015 | S15C | 1.1141 | Ck15 | 080M15 | 32C | XC12 | C16 | C15K | 1370 | 15 |
| 1025 | S25C | 1.1158 | Ck25 | – | – | – | – | – | – | 25 |
| A572-60 | – | 1.89 | StE380 | 4360 55 E | – | – | FeE390KG | – | 2145 | – |
| 1035 | – | 1.0501 | C35 | 060A35 | – | CC35 | C35 | F.113 | 1550 | 35 |
| 1045 | – | 1.0503 | C45 | 080M46 | – | CC45 | C45 | F.114 | 1650 | 45 |
| 1140 | – | 1.0726 | 35S20 | 212M36 | 8M | 35MF4 | – | F210G | 1957 | – |
| 1039 | – | 1.1157 | 40Mn4 | 150M36 | 15 | 35M5 | – | – | – | 40Mn |
| 1335 | SMn438(H) | 1.1167 | 36Mn5 | – | – | 40M5 | – | 36Mn5 | 2120 | 35Mn2 |
| 1330 | SCMn1 | 1.117 | 28Mn6 | 150M28 | 14A | 20M5 | C28Mn | – | – | 30Mn |
| 1035 | S35C | 1.1183 | Cf35 | 060A35 | – | XC38TS | C36 | – | 1572 | 35Mn |
| 1045 | S45C | 1.1191 | Ck45 | 080M46 | – | XC42 | C45 | C45K | 1672 | Ck45 |
| 1050 | S50C | 1.1213 | Cf53 | 060A52 | – | XC48TS | C53 | – | 1674 | 50 |
| 1055 | – | 1.0535 | C55 | 070M55 | 9 | – | C55 | – | 1655 | 55 |
| 1060 | – | 1.0601 | C60 | 080A62 | 43D | CC55 | C60 | – | – | 60 |
| 1055 | S55C | 1.1203 | Ck55 | 070M55 | – | XC55 | C50 | C55K | – | 55 |
| 1060 | S58C | 1.1221 | Ck60 | 080A62 | 43D | XC60 | C60 | – | 1678 | 60Mn |
| 1095 | – | 1.1274 | Ck101 | 060A96 | – | XC100 | – | F.5117 | 1870 | – |
| W1SK3 | 1.1545 | C105W1 | BW1A | – | Y105 | C36KU | F.5118 | 1880 | – | |
| W210 | SUP4 | 1.1545 | C105W1 | BW2 | – | Y120 | C120KU | F.515 | 2900 | – |

Equivalent Grades

Alloy Steel

| USA | Japan | Germany | | U. K. | | France | Italy | Spain | Sweden | China |
|-----------------------|--------------------------|---------|-------------|----------------------|------|--------------------|---------------------|------------|--------|-----------|
| AISI/SAE | JIS | W-nr. | DIN | BS | EN | AFNOR | UNI | UNE | SS | GB |
| A573-81 | SM400A, SM400B SM400C | 1.0144 | St.44.2 | 4360 43 C | – | E28-3 | – | – | 1412 | – |
| – | SM490A, SM490B SM490C | 1.057 | St52-3 | 4360 50 B | – | E36-3 | Fe52BFN Fe52CFN | – | 2132 | – |
| 5120 | – | 1.0841 | St52-3 | 150M19 | – | 20MC5 | Fe52 | F.431 | 2172 | – |
| 9255 | – | 1.0904 | 55Si7 | 250A53 | 45 | 55S7 | 55Si8 | 56Si7 | 2085 | 55Si2Mn |
| 9262 | – | 1.0961 | 60SiCr7 | – | – | 60SC7 | 60SiCr8 | 60SiCr8 | – | – |
| ASTM 52100 | SUJ2 | 1.3505 | 100Cr6 | 534A99 | 31 | 100C6 | 100Cr6 | F.131 | 2258 | Gr15, 45G |
| ASTM A204Gr.A | – | 1.5415 | 15Mo3 | 1501-240 | – | 15D3 | 16Mo3KW | 16Mo3 | 2912 | – |
| 4520 | – | 1.5423 | 16Mo5 | 1503-245-420 | – | – | 16Mo5 | 16Mo5 | – | – |
| ASTM A350LF5 | – | 1.5622 | 14Ni6 | – | – | 16N6 | 14Ni6 | 15Ni6 | – | – |
| ASTM A353 | – | 1.5662 | X8Ni9 | 1501-509-510 | – | – | X10Ni9 | XBNi09 | – | – |
| 3135 | SNC236 | 1.571 | 36NiCr6 | 640A35 | 111A | 35NC6 | – | – | – | – |
| 3415 | SNC415(H) | 1.5732 | 14NiCr10 | – | – | 14NC11 | 16NiCr11 | 15NiCr11 | – | – |
| 3415, 3310 | SNC815(H) | 1.5752 | 14NiCr14 | 655M13 | 36A | 12NC15 | – | – | – | – |
| 8620 | SNCM220(H) | 1.6523 | 21NiCrMo2 | 805M20 | 362 | 20NCD2 | 20NiCrMo2 | 20NiCrMo2 | 2506 | – |
| 8740 | SNCM240 | 1.6546 | 40NiCrMo22 | 311-Type 7 | – | – | 40NiCrMo2(KB) | 40NiCrMo2 | – | – |
| – | – | 1.6587 | 17CrNiMo6 | 820A16 | – | 18NCD6 | – | 14NiCrMo13 | – | – |
| 5015 | SCr415(H) | 1.7015 | 15Cr3 | 523M15 | – | 12C3 | – | – | – | 15Cr |
| 5140 | SCr440 | 1.7045 | 42Cr4 | – | – | – | – | 42Cr4 | 2245 | 40Cr |
| 5155 | SUP9(A) | 1.7176 | 55Cr3 | 527A60 | 48 | 55C3 | – | – | – | 20CrMn |
| – | SCM415(H) | 1.7262 | 15CrMo5 | – | – | 12CD4 | – | 12CrMo4 | 2216 | – |
| ASTM A182 F11, F12 | – | 1.7335 | 13CrMo4 4 | 1501-620Gr27 | – | 15CD3.5 15CD4.5 | 14CrMo45 | 14CrMo45 | – | – |
| ASTM A182 F.22 | – | 1.738 | 10CrMo910 | 1501-622 Gr31, 45 | – | 12CD9 12CD10 | 12CrMo9 12CrMo10 | TU.H | 2218 | – |
| – | – | 1.7715 | 14MoV63 | 1503-660-440 | – | – | – | 13MoCrV6 | – | – |
| – | – | 1.8523 | 39CrMoV13 9 | 897M39 | 40C | – | 36CrMoV12 | – | – | – |
| 9840 | – | 1.6511 | 36CrNiMo4 | 816M40 | 110 | 40NCD3 | 38NiCrMo4(KB) | 35NiCrMo4 | – | – |
| 4340 | – | 1.6582 | 34CrNiMo6 | 817M40 | 24 | 35NCD6 | 35NiCrMo6(KB) | – | 2541 | 40CrNiMoA |
| 5132 | SCr430(H) | 1.7033 | 34Cr4 | 530A32 | 18B | 32C4 | 34Cr4(KB) | 35Cr4 | – | 35Cr |
| 5140 | SCr440(H) | 1.7035 | 41Cr4 | 530M40 | 18 | 42C4 | 41Cr4 | 42Cr4 | – | 40Cr |
| 5115 | – | 1.7131 | 16MnCr5 | (527M20) | – | 16MC5 | 16MnCr5 | 16MnCr5 | 2511 | 18CrMn |
| 4130 | SCM420 | 1.7218 | 25CrMo4 | 1717CDS110 | – | 25CD4 | 25CrMo4(KB) | 55Cr3 | 2225 | 30CrMn |

Alloy Steel

| USA | Japan | Germany | | U. K. | | France | Italy | Spain | Sweden | China |
|--------------|------------------|---------|-------------|----------|-----|----------|---------------|-------------|--------|------------|
| AISI/SAE | JIS | W-nr. | DIN | BS | EN | AFNOR | UNI | UNE | SS | GB |
| 4137 4135 | SCM432 SCCRM3 | 1.722 | 34CrMo4 | 708A37 | 19B | 35CD4 | 35CrMo4 | 34CrMo4 | 2234 | 35CrMo |
| 4140 4142 | SCM 440 | 1.7223 | 41CrMo4 | 708M40 | 19A | 42CD4TS | 41CrMo4 | 42CrMo4 | 2244 | 40CrMoA |
| 4140 | SCM440(H) | 1.7225 | 42CrMo4 | 708M40 | 19A | 42CD4 | 42CrMo4 | 42CrMo4 | 2244 | 42CrMo |
| | | | | | | | | | | 42CrMnMo |
| – | – | 1.7361 | 32CrMo12 | 722M24 | 40B | 30CD12 | 32CrMo12 | F.124.A | 2240 | – |
| 6150 | SUP10 | 1.8159 | 50CrV4 | 735A50 | 47 | 50CV4 | 50CrV4 | 51CrV4 | 2230 | 50CrVA |
| – | – | 1.8509 | 41CrAlMo7 | 905M39 | 41B | 40CAD6 | 41CrAlMo7 | 41CrAlMo7 | 2940 | – |
| | | | | | | 40CAD2 | | | | |
| L3 | – | 1.2067 | 100Cr6 | BL3 | – | Y100C6 | – | 100Cr6 | – | CrV, 9SiCr |
| – | SKS31 | 1.2419 | 105WCr6 | – | – | 105WC13 | 100WCr6 | 105WCr5 | 2140 | CrWMo |
| | SKS2, SKS3 | | | | | | 107WCr5KU | | | |
| L6 | SKT4 | 1.2713 | 55NiCrMoV6 | BH224/5 | – | 55NCDV7 | – | F.520.S | – | 5CrNiMo |
| ASTM A353 | – | 1.5662 | X8Ni9 | 1501-509 | – | – | X10Ni9 | XBNi09 | – | – |
| 2515 | – | 1.568 | 12Ni19 | – | – | Z18N5 | – | – | – | – |
| – | – | 1.6657 | 14NiCrMo134 | 832M13 | 36C | – | 15NiCrMo13 | 14NiCrMo131 | – | – |
| D3 | SKD1 | 1.208 | X210Cr12 | BD3 | – | Z200C12 | X210Cr13KU | X210Cr12 | – | Cr12 |
| ASTM D3 | | | | | | | X250Cr12KU | | | |
| D2 | SKD11 | 1.2601 | X153CrMoV12 | BD2 | – | – | X160CrMoV12 | – | – | Cr12MoV |
| A2 | SKD12 | 1.2363 | X100CrMoV5 | BA2 | – | Z100CDV5 | X100CrMoV5 | F.5227 | 2260 | Cr5Mo1V |
| H13 | SKD61 | 1.2344 | X40CrMoV51 | BH13 | – | Z40CDV5 | X35CrMoV05KU | X40CrMoV5 | 2242 | 40CrMoV5 |
| ASTM H13 | | | X40CrMoV51 | | | | X40CrMoV51KU | | | |
| – | SKD2 | 1.2436 | X210CrW12 | – | – | – | X215CrW121KU | X210CrW12 | 2312 | – |
| S1 | – | 1.2542 | 45WCrV7 | BS1 | – | – | 45WCrV8KU | 45WCrSi8 | 2710 | – |
| H21 | SKD5 | 1.2581 | X30WCrV93 | BH21 | – | Z30WCV9 | X28W09KU | X30WCrV9 | – | 30WCrV9 |
| – | – | 1.2601 | X165CrMoV12 | – | – | – | X165CrMoW12KU | X160CrMoV12 | 2310 | – |
| W210 | SKS43 | 1.2833 | 100V1 | BW2 | – | Y1105V | – | – | – | V |
| T4 | SKH3 | 1.3255 | S 18-1-2-5 | BT4 | – | Z80WKCV | X78WCo1805KU | HS18-1-1-5 | – | W18Cr4VCo5 |
| T1 | SKH2 | 1.3355 | S 18-0-1 | BT1 | – | Z80WCV | X75W18KU | HS18-0-1 | – | – |
| – | SCMnH/1 | 1.3401 | G-X120Mn12 | Z120M12 | – | Z120M12 | XG120Mn12 | X120MN12 | – | – |
| HW3 | SUH1 | 1.4718 | X45CrSi93 | 401S45 | 52 | Z45CS9 | X45CrSi8 | F.322 | – | X45CrSi93 |
| D3 | SUH3 | 1.3343 | S6-5-2 | 4959BA2 | – | Z40CSD10 | 15NiCrMo13 | – | 2715 | – |
| M2 | SKH9, SKH51 | 1.3343 | S6/5/2 | BM2 | – | Z85WDCV | HS6-5-2-2 | F.5603 | 2722 | – |
| M7 | – | 1.3348 | S 2-9-2 | – | – | – | HS2-9-2 | HS2-9-2 | 2782 | – |
| M35 | SKH55 | 1.3243 | S6/5/2/5 | BM35 | – | 6-5-2-5 | HS6-5-2-5 | F.5613 | 2723 | – |

Steel Pipes



1. ERW HFW Pipe / SSAW SAWH Pipe / LSAW & SAWL Pipe

| | |
|-------------|--|
| Size | 1" - 24" / 12" – 56" |
| WT | 4MM - 20MM / 9.53MM – 50MM |
| Length | 3M - 2M / 6M – 12M |
| Standard | API 5L PSL1/PSL2, ASTM A53, ASTM A36, ASTM A500, ASTM A252, EN10219/EN10210/EN10217, GB/T 3091, JIS G3454, AS1163 BS1387 ASTM A135 ASTM A795 BS534 GOST 10704 GOST 20295 EN10255 |
| Steel Grade | GR. B/L245, X42-X56, S275/S275JOH, S355JOH/S355J2H, STPG370, GR.1,2,3, SS400, SS490, Q235B/Q355B, SSAW/SAWH Pipe & LSAW/SAWL Pipe |

2. Carbon Steel Seamless Pipe

| | |
|-------------|---|
| Size | 1/4" - 26" |
| WT | 9.53MM-50MM |
| Length | 2MM-60MM |
| Standard | API 5L, PSL1/PSL2, API 5CT GB/T 8163, ASTM A53, ASTM 3183, GB/T 9711 |
| Steel Grade | API 5L 20#, GR. A, GR. B, L245 X42, X46, X52, X56, X60, X65, X70, Q345A, Q345B, Q345C, Q345D, Q345E |

3. Stainless Seamless Pipe

| | |
|-------------|--|
| Size | OD6MM-630MM, WT:0.5MM-30MM |
| Standard | ASTM A312, S312M ASTM A213\213M DIN17740, JISG3463 JISG 3448 |
| Steel Grade | 304\304L\316\316L321\F321\310S\317L\309\2205 |

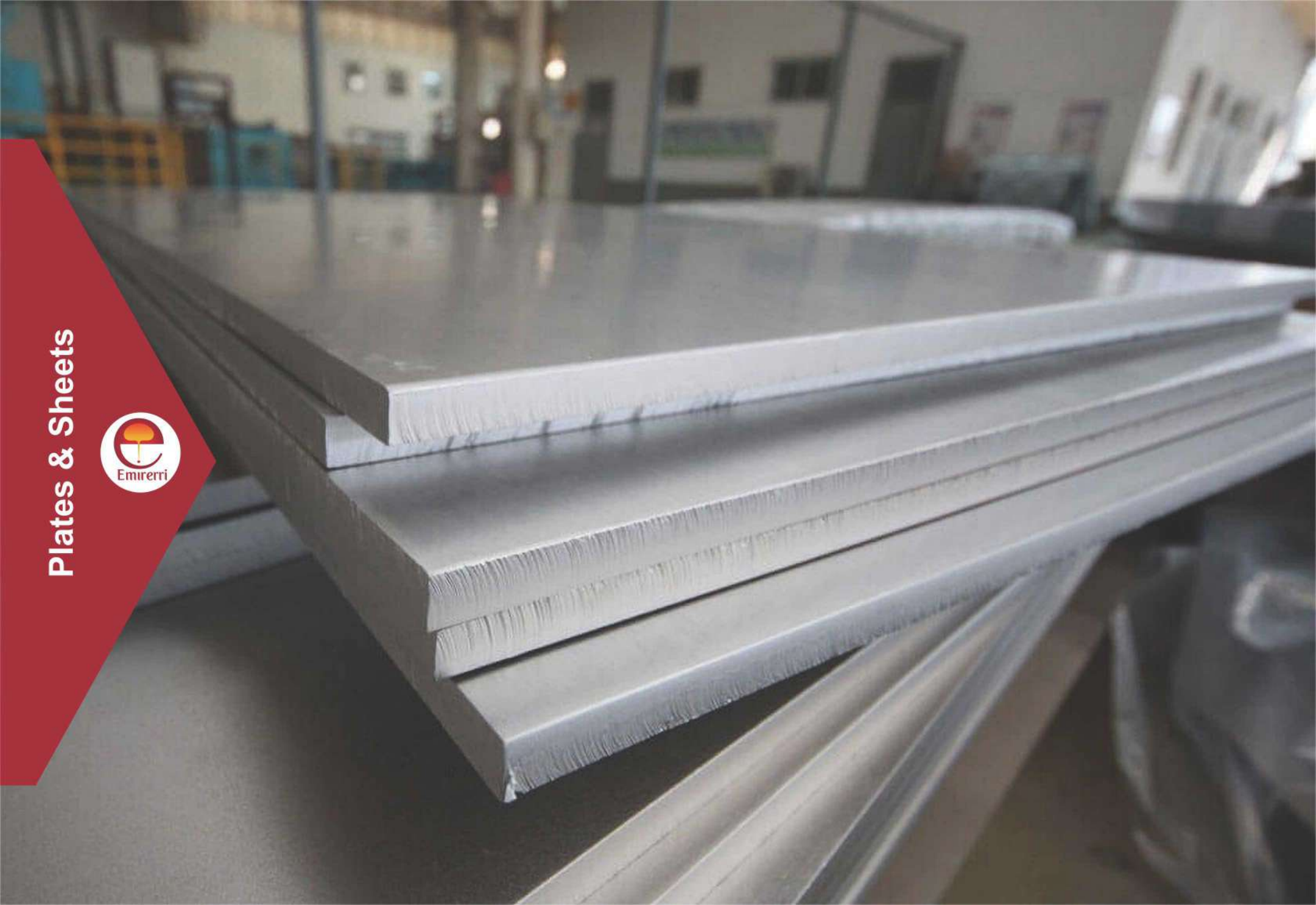
4. Stainless Welded Pipe

| | |
|-------------|--|
| Size | ROUND: OD12.7MM-711MM, WT:1MM-10MM, SQUARE:15*15 250*250MM WT;1.0-10MM, RECTANGLE: 20*40-200*300MM |
| Standard | ASTM A312, S312M ASTM A213\213M DIN17740, JISG3463 JISG 3448 |
| Steel Grade | 304\304L\316\316L 321\F321 \310S\317L\309\347\2205 |



Range of Steel Pipes

Plates & Sheets



1. Shipbuilding Steel Plate

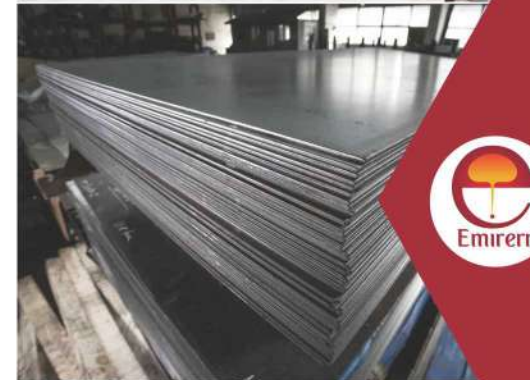
| | |
|--|--|
| Classification Society Quality Authentication | ABS, BV, CCS, DNV, GL, KR, LR, NK, RINA, |
| Steel Grade | A B D AH32, AH36 DH32, DH36 EH32, EH36, AH40, DH40, EH40 |
| For Size | Thickness: 3mm~200mm Width: 1500mm~4000mm Length: 5000 mm~15000 mm |

2. Wear Resistant Steel Plate

| | |
|--------------------|---|
| Steel Grade | NM360, NM400, NM450, NM500 |
| | HARDOX400, HARDOX450, HARDOX500, HARDOX600, XAR400, XAR450, XAR500 |
| | FOR A400, FOR A500 |
| | JFE-EH360, JFE-EH400, JFE-EH500 |
| For Size | Thickness: 5 mm~80 mm Width: 30 mm~4000 mm Length: 1000 mm~12000 mm |

3. High Strength Structural Steel Plate

| | |
|--------------------|---|
| Steel Grade | GB/T1591-2017: Q390(BCDE), Q420(BCDE), Q460(BCDE) |
| | GB/16270: Q500(CDE), Q550(CDE), Q690(DE) |
| | JIS G3106: SM490(ABC), SM490YA, SM520, SM570 |
| | ASTM: ASTM A572, GR(42, 50, 55, 60, 65), A633(ABCDE) |
| | EN: S235(J0, J2), S355(JR, JO, J2, G2, G3, NL), S420NL, S460NL, S550NL |
| | ISO4950: E350, E420, E460, E550, E690 |
| For Size | ISO630: FE430, FE510 |
| | Thickness: 6 mm~200mm Width: 30 mm~4000 mm Length: 1000 mm~12000 mm |



Range of
Plates & Sheets

Plates & Sheets



3. Pressure Vessel Steel Plate

| | |
|-------------|--|
| Steel Grade | GB713-97: 20G, 16MnG, 15CrMoG, 19MnG, 13MnNiCrMoNbG |
| | GB6654-96: 15MnNbR, 15MnVNR, Q245R, Q345R Q370R |
| | GB3531: 16MnDR, 09MnNiDR, 15MnNiDR, 12MnNiVR, 14Cr1MoR |
| | JIS G 3103: SB410, SB450, SB480 |
| | JIS G 3115: SPV235, SPV 355, SPV420, SPV450, SPV490 |
| | JIS G 3118: SGV410, SGV450, SGV480 |
| | ASTM ASME: ASTM, A299M, A662M (A B C) A515GR (55, 60, 65, 70) |
| | A516GR (60, 65, 70) A204 GR (B, C) |
| | A387GR11CL1, A387GR11, CL2 A387GR91, CL2 A537CL1 A537CL2 |
| | A517GRB, A573GR70, A302M |
| | EN10028-2: P235GH, P355GH, P295GH, 16Mo3 |

4. Corten steel Pipes

| | |
|-------------------|---|
| Size Range | 1/2 OD to 16 OD |
| Standards | ASTM A 423 GR. 1, ASME SA 423, ASTM A 847, ASTM 606 |
| Grade | ASTM A 423 GR. 1, ASME SA 423, ASTM A 847, ASTM 606 |
| Shape | Round, Square, Rectangle, Hydraulic, Honed Tubes |
| Length | Single Random, Double Random & Cut Length |
| End | Plain End, Bevelled End |
| Type | Corten Steel |



Range of
Plates & Sheets

Pipe Fittings



1. Elbows

| | |
|--------------------------------|---|
| DEGREE | 45/90/180 or customized degree |
| OUTSIDE DIAMETER | Seamless Elbow DN15--DN600mm (1/2"~24") ERW / Welded Elbow (2"~80") DN50 DN2000mm |
| WALL THICKNESS | • SCH10,SCH20, SCH30, STD, SCH40, SCH60,XS,SCH80, SCH100, SCH120, SCH140,SCH160, SCH XXS... 2mm ~60mm |
| MANUFACTURING STANDARDS | <ul style="list-style-type: none"> • ASME/ANSI B16.9, B16.11, B16.25, B16.28, MSS-SP-43 • GB/T12459, 13401, HG/T 21631, 21635, SH3408, 3409 <ul style="list-style-type: none"> • GOST 17375, 17376, 17378, 17379,30753 • DIN 2605, 2609, 2615, 2616, 2617 • JIS B2311, B2312, B2313 |
| CARBON STEEL | • 20#, 35#, 45#, 20G, Q235, A234 WPB/WPC, A1068 |
| STAINLESS STEEL | <ul style="list-style-type: none"> • ASTM A403, WP304/304L/304H, 316/316L, 310S, 317, 321,347, 904L, WPS 31254 • ASTM A234 WP1, 3, 5, 6, 9, 11, 12, 22, 91, 92, ASTM A860, WPHY 42, 46, 52, 60, 65, 70 |
| ALLOY STEEL | • 15CrMoG, 12Cr1MoVG, 12Cr5Mo, 1Cr5Mo, Cr9Mo 10CrMo910, 12CrMo4-5 |

2. Cap

| | |
|--------------------------------|--|
| SIZE | • 1/2"72"/ DN151800 |
| WALL THICKNESS | • 2mm-50mm/SCH5, SCH10, SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS |
| MANUFACTURING STANDARDS | <ul style="list-style-type: none"> • ASME/ANSI B16.9, ASME B16.28, MSS-SP-43 • GB/T12459, GB/T13401, HG/T21635/21631, SH3408/3409 <ul style="list-style-type: none"> • DIN2605/2615/2616/2617 • JIS B2311/2312/2313/2220 • EN10253 |
| CARBON STEEL | • Q235, 20#, 35#, 45#, 20G, ASTM A234 WPB/WPC, Q345B |
| STAINLESS STEEL | • ASTM A403 WP304/304L/304H, 316/316L, 310S, 317, 347, 904L |
| ALLOY STEEL | • ASTM A234 WP11/WP12/WP5/WP9/WP91/WP92, 15CrMoG, 12Cr1MoVG, 12Cr5Mo, 1Cr5Mo, Cr9Mo, 10CrMo910, 12CrMo4-5 |



Range of Pipe Fittings



3. Equal Tee/ Reducing Tee

| | |
|--------------------------------|---|
| DEGREE | Equal Tee & Reducing Tee |
| OUTSIDE DIAMETER | 1/280/DN15-2000 |
| WALL THICKNESS | SCH10, SCH20, SCH30, SCH40, STD, SCH60, XS, SCH100, SCH120, SCH140, SCH160, XXS |
| MANUFACTURING STANDARDS | ASME/ANSI B16.9, MSS-SP-43 GB/T12459, GB/T13401, HG/T21635/21631, SH3408/3405 JIS B2311, 2312, 2313, 2220, DIN2605/2615/2616/2617 EN10253 |
| CARBON STEEL | Q235, 20#, 35#, 45#, 20G, ASTM A234 WPB/WPC., Q345B |
| STAINLESS STEEL | ASTM A403 WP304/304L/304H, 316/316L, 310S, 317,347, 904L |
| ALLOY STEEL | ASTM A234 WP11/WP12/WP5/WP9/WP91/WP92. 15CrMoG, 12Cr1MoVG, 12Cr5Mo, 1Cr5Mo, Cr9Mo, 10CrMo910, 12CrMo4-5 |

4. Eccentric Reducer / Concentric Reducer

| | |
|--------------------------------|---|
| SHAPE TYPE | Concentric Reducer & Eccentric Reducer |
| OUTSIDE DIAMETER | 1/260/DN15-1500 |
| WALL THICKNESS | 3mm 50mm/8CH5. SCH10, SCH20, SCH30, SCH40. STD. SCH80, XS, SCH00, SCH80, SCH120, 5SCH140, SCH160 XS. XXS |
| MANUFACTURING STANDARDS | ASME/ANSI B16.9, MSS-SP-43 GB/T12459, GB/T13401, HG/T21635/21631, SH3408/3409 JIS B2311/2312/2313/2220 DIN2605/2615/2616/2617 EN10253 |
| CARBON STEEL | Q235, 20#, 35#, 45#, 20G, ASTM A234 WPB/WPC, Q345B |
| STAINLESS STEEL | ASTM A403 WP304/304L/304H,316/316L, 310S, 317, 347, 904L |
| ALLOY STEEL | ASTM A234 WP11/WP12/WP5/WP0/WP91/WP92, 15CrMoG, 12Cr1MoVG, 12Cr5Mo, 1Cr5Mo, Cr9Mo, 10CrMo910, 12CrMo4-5 |

5.1 Flanges (Weld Neck Flange)

| | | |
|--------------------------------|--|---|
| SIZE | 3/8" - 160 / DN10 - DN4000 | |
| PRESSURE | PN2.5bar-PN400bar CLASS 150-CLASS 2500 | |
| MANUFACTURING STANDARDS | ANSI | ASME B16.5、 B16.47 A/B |
| | DIN | DIN2543, 2545, 2572, 2573, 2576, DIN2627-DIN2638 |
| | JIS | JIS B2220, JIS B2238, JIS G3451 |
| | GOST | GOST 12820,GOST 12821 |
| | GB | GB/T 9124.1-2019,GB/T 9115, SH3406-96、 HG/T 20592-2009, HG20595-97, HG/T20615, HG2061 HG20623, HG5010--58 |
| | OTHERS | EN1092,BS4504, ISO 7005-1, UNI2280-UNI2286 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235.. |
| | Stainless Steel | ASTM A182 F304, 304L, F316,30 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |
| SURFACE | FF, RF, MFM, TG, RJ | |

5.2 Slip On Flange

| | | |
|--------------------------------|---------------------------------------|--|
| SIZE | 3/8" - 40/DN10 - DN1000 | |
| PRESSURE | PN6bar-PN100bar, CLASS 150-CLASS 1500 | |
| MANUFACTURING STANDARDS | ANSI | ANSI B16.5 |
| | DIN | DIN2543, DIN2545, DIN 2572, DIN 2573, DIN 2576, DIN2627 DIN2638, DIN 86029、 DIN 86030 |
| | JIS | JIS B2220, JIS 5K, 10K, 16K, 20K |
| | GB | GB/T 9124.1-2019, GB/T9119, GB/T9116, SH3406-96, HG/T20592-2009, HG20594-97, HG20616-97 |
| | OTHERS | EN1092, BS4504, ISO 7005-1, UNI2253-UNI2257 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304, 304L, F316, 316L, 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12 , F22, F91、 F92, 16Mn... |
| SURFACE | FF, RF, MFM, TG, RJ | |



Range of Pipe Fittings



5.3 Plate Flange

| | | |
|--------------------------------|---------------------|---|
| SIZE | 3/8-80 /DN10 DN2000 | |
| PRESSURE | PN2.5bar-PN100bar | |
| MANUFACTURING STANDARDS | DIN | DIN2502, DIN2503, DIN2572, DIN2573, DIN2576, DIN2631, DIN2632, DIN2633, DIN2634, DIN2543, DIN2545 |
| | JIS | JIS B2220, JIS B2238, JIS 5K, 10K, 16K, 20K |
| | GOST | GOST12820 |
| | GB | GB/T 9124.1-2019, GB/T 9119, HG20623, HG/T 20592-2009, HG20593-97 |
| | OTHERS | EN1092, ISO 7005-1, DIMA, UNI2276, UNI2277, UNI2278, UNI6082, UNI6083, UNI6084 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304, 304L, F316, 316L, 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |
| SURFACE | FF, RF | |

5.4 Blind Flange

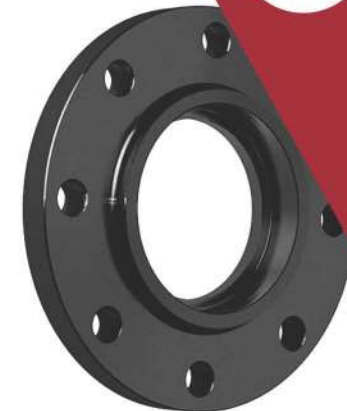
| | | |
|--------------------------------|--|---|
| SIZE | 3/8-80 /DN10 DN2000 | |
| PRESSURE | PN2.5bar-PN100bar CLASS 150-CLASS 1500 | |
| MANUFACTURING STANDARDS | ANSI | ASME B16.5, ASME B16.47A, ASME B16.478, API 605, MSS SP44 |
| | DIN | DIN 2527, DIN 2572, DIN 2573, DIN 2576, DIN 2655, DIN 2656, DIN 2641, DIN 26-42, DIN 2627, DIN 2628, DIN 2631, DIN 2632, DIN 2635 DIN 26:36, DIN 2629, DIN 2630, DIN 2633, DIN 2634, DIN 2637, DIN 2638 |
| | JIS | JIS B2220, JIS B2238, ISO 7005-1 JIS 5K, 10K, 16K, 20K |
| | GOST | GOST12836 |
| | DIN | GB GB/T 9123, HG5010-58, HG20623, SH3406-96 EN1092, 85-4504, 150 7005-1 |
| | OTHERS | EN10092, BS4504, ISO 7005-1, UNIG091-UNI6099 |
| | MATERIAL | Carbon Steel |
| Stainless Steel | | ASTM A182 F304, 304L, F316, 316L, 310S, 321 |
| Alloy Steel | | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn |
| SURFACE | FF, RF, MFM, TG, RJ | |

5.5 Threaded Flange

| | | |
|--------------------------------|---|---|
| SIZE | 3/8" - 40" / DN10 - DN1000 | |
| PRESSURE | PN2.5bar- PN100bar CLASS 150-CLASS2500 | |
| Flange Face Type | Raised Face (RF). Ring Type Joint (RTJ) | |
| Connection Type | Non-Welded Flange | |
| MANUFACTURING STANDARDS | ANSI | ASME B16.5. ANSI B16.47 |
| | DIN | DIN2543, 2545, 2565, 2566, 2567, 2568, 2569, 2573, 2572, 2576, DIN2631-2634 |
| | GB | GB/T 9124, 1-2019, GB/T 9114, SH3406-96, JB/T2769-1992, HG5010-58, HG20598, HG20620 |
| | OTHERS | EN1092. BS4504, ISO 7005-1. JIS B2220 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304. 304L. F316. 316L, 310S. 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |
| SURFACE | FF, RF | |

5.6 Socket weld Flange

| | | |
|--------------------------------|--|--|
| SIZE | 3/8" - 6" / DN10 - DN150 | |
| PRESSURE | PN2.5bar-PN100bar. CLASS 150 - CLASS 1500 | |
| Flange Face Type | American Series: Flat Face(FF), Raised Face(RF), Tongue(!), Groove(G), Female(F), Male(M), Ring Joints Face(RTJ) European Series: Type A(Flat Face), Type B(Raised Face), Type C(Tongue), Type D(Groove), Type E(Spigot), Type F(Recess), Type G(O-Ring Spigot), Type H (O-Ring Groove) | |
| MANUFACTURING STANDARDS | ANSI | ASME B16.5, ANSI B16.47, MSS SP44 |
| | GB | GB/T 9124.1-2019, GB/T 9117, HG/T 20592-2009, SH3406-96, HG20597 |
| | OTHERS | EN1092, BS1560, ISO 7005-1, B2220 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304, 304L, F316, 316L, 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |
| SURFACE | RF, MFM, TG, RJ | |



Range of Flanges



5.7 Lap Joint Flange

| | | |
|--------------------------------|--|---|
| SIZE | 3/8" - 24" / DN10 - DN1200 | |
| PRESSURE | PN2.5bar-PN40bar, CLASS 150 - CLASS 2500 | |
| MANUFACTURING STANDARDS | ANSI | ASME B16.5, ANSI B16.47, MSS SP44, Custom Drawings |
| | DIN | DIN2641, DIN2642 |
| | GOST | GOST12820 |
| | GB | GB/T9120, GB/T9121, GB/T 9124.1-2019, GB/T 9118, SH3406-96, HG20597, HG20599, HG20600 |
| | OTHERS | ISO 7005, EN1092, EN1759, BS1560, BS4604, JIS B2220 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304, 304L, F316, 316L, 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |
| SURFACE | Butt Welding Ring, Flat Welding Ring | |

5.8 Orifice Flange

| | | |
|--------------------------------|----------------------|---|
| SIZE | 1" - 12" | |
| PRESSURE | CLASS 150-CLASS 2500 | |
| MANUFACTURING STANDARDS | | ASME B16.36, ASME B16.5, API 590, ISO 5167, ANSI B16.36 |
| MATERIAL | Carbon Steel | ASTM A105, 20#, Q235... |
| | Stainless Steel | ASTM A182 F304, 304L, F316, 316L, 310S, 321... |
| | Alloy Steel | ASTM A182 F1, F5a, F9, F11, F12, F22, F91, F92, 16Mn... |



Expanded Metal



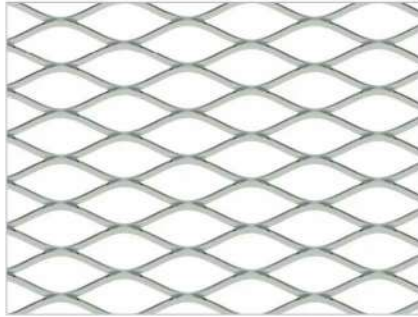
1. Standard Expanded Metal

Key Features:

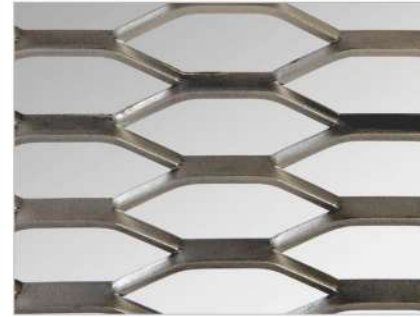
- **Uniform Mesh Openings:** Allows light, heat, and air to flow freely.
- **Lighter Weight, Increased Rigidity:** More rigid structure compared to material of the same size.
- **Superior Anti-Skid Performance:** The three-dimensional structure provides excellent anti-skid properties.
- **Seamless One-Piece Construction:** No welding joints, ensuring edges remain intact and secure.
- **Economical and Eco-Friendly:** No material wastage during production, saving raw materials and benefiting the environment.



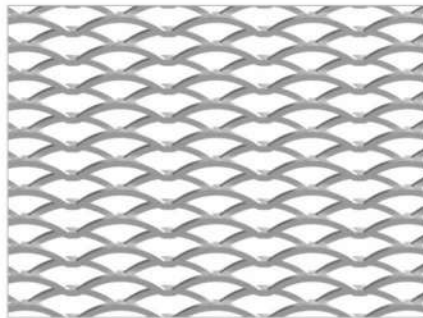
Hole Pattern



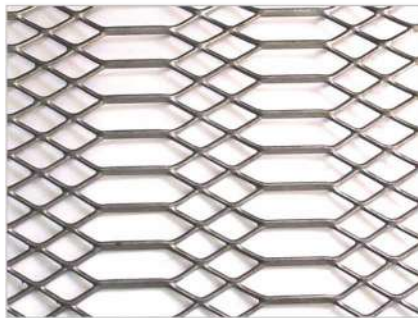
Diamond



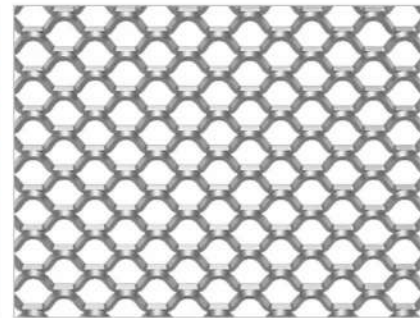
Hexagonal



Fan Shaped



Gothic



Round

Table 1: Specifications of Carbon Steel Standard Expanded Metal

| Style | Minimum Thickness (inches) ^A | Nominal Weight in lbs./100 Sq. Ft. ^B | Design Size (inches) ^C | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|---|-----------------------------------|------|------------------------------------|-------|----------------------|-----------|----------------------------|-----------|
| | | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| ¼"-#20 | 0.032 | 85 | 0.250 | 1.00 | 0.157 | 0.718 | 0.072 | 0.036 | 0.146 | 42% |
| ¼"-#18 | 0.042 | 113 | 0.250 | 1.00 | 0.146 | 0.718 | 0.072 | 0.048 | 0.151 | 42% |
| ½"-#20 | 0.032 | 42 | 0.500 | 1.20 | 0.407 | 0.938 | 0.072 | 0.036 | 0.146 | 71% |
| ½"-#18 | 0.042 | 69 | 0.500 | 1.20 | 0.382 | 0.938 | 0.088 | 0.048 | 0.180 | 65% |
| ½"-#16 | 0.053 | 85 | 0.500 | 1.20 | 0.372 | 0.938 | 0.087 | 0.060 | 0.183 | 65% |
| ½"-#13 | 0.083 | 141 | 0.500 | 1.20 | 0.337 | 0.938 | 0.096 | 0.090 | 0.212 | 62% |
| ¾"-#16 | 0.053 | 54 | 0.923 | 2.00 | 0.783 | 1.750 | 0.101 | 0.060 | 0.208 | 78% |
| ¾"-#13 | 0.083 | 77 | 0.923 | 2.00 | 0.760 | 1.688 | 0.096 | 0.090 | 0.212 | 79% |
| ¾"-#10 | 0.083 | 117 | 0.923 | 2.00 | 0.718 | 1.625 | 0.144 | 0.092 | 0.300 | 69% |
| ¾"-#9 | 0.127 | 178 | 0.923 | 2.00 | 0.675 | 1.562 | 0.150 | 0.134 | 0.329 | 67% |
| 1"-#16 | 0.053 | 43 | 1.00 | 2.40 | 0.872 | 2.062 | 0.087 | 0.060 | 0.183 | 83% |
| 1½"-#18 | 0.042 | 20 | 1.33 | 3.00 | 1.229 | 2.625 | 0.068 | 0.048 | 0.144 | 90% |
| 1½"-#16 | 0.053 | 40 | 1.33 | 3.00 | 1.184 | 2.625 | 0.108 | 0.060 | 0.221 | 84% |
| 1½"-#13 | 0.083 | 58 | 1.33 | 3.00 | 1.160 | 2.500 | 0.105 | 0.090 | 0.228 | 84% |
| 1½"-#10 | 0.083 | 76 | 1.33 | 3.00 | 1.132 | 2.500 | 0.138 | 0.090 | 0.288 | 79% |
| 1½"-#9 | 0.127 | 119 | 1.33 | 3.00 | 1.087 | 2.375 | 0.144 | 0.134 | 0.318 | 78% |
| 1½"-#6 | 0.184 | 247 | 1.33 | 3.00 | 0.979 | 2.313 | 0.203 | 0.198 | 0.452 | 69% |
| 2"-#10 | 0.083 | 65 | 1.85 | 4.00 | 1.630 | 3.438 | 0.164 | 0.090 | 0.335 | 82% |
| 2"-#9 | 0.127 | 88 | 1.85 | 4.00 | 1.603 | 3.375 | 0.149 | 0.134 | 0.327 | 84% |

Table 2: Specifications of Stainless Steel Standard Expanded Metal

| Style | Minimum Thickness (inches) ^A | Nominal Weight in lbs./100 Sq. Ft. ^B | Design Size (inches) ^C | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|---|-----------------------------------|------|------------------------------------|-------|----------------------|-----------|----------------------------|-----------|
| | | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| ½"-#18 | 0.044 | 69 | 0.500 | 1.20 | 0.383 | 0.937 | 0.087 | 0.048 | 0.178 | 65% |
| ½"-#16 | 0.055 | 87 | 0.500 | 1.20 | 0.372 | 0.937 | 0.087 | 0.060 | 0.183 | 65% |
| ½"-#13 | 0.085 | 143 | 0.500 | 1.20 | 0.418 | 0.876 | 0.096 | 0.090 | 0.254 | 62% |
| ¾"-#18 | 0.044 | 46 | 0.923 | 2.00 | 0.790 | 1.750 | 0.106 | 0.048 | 0.212 | 77% |
| ¾"-#16 | 0.055 | 57 | 0.923 | 2.00 | 0.779 | 1.760 | 0.106 | 0.060 | 0.217 | 77% |
| ¾"-#13 | 0.085 | 87 | 0.923 | 2.00 | 0.751 | 1.687 | 0.107 | 0.090 | 0.232 | 77% |
| ¾"-#9 | 0.128 | 194 | 0.923 | 2.00 | 0.666 | 1.562 | 0.160 | 0.135 | 0.347 | 65% |
| 1½"-#16 | 0.055 | 43 | 1.33 | 3.00 | 1.179 | 2.750 | 0.115 | 0.060 | 0.234 | 83% |
| 1½"-#13 | 0.085 | 65 | 1.33 | 3.00 | 1.152 | 2.625 | 0.115 | 0.090 | 0.246 | 83% |
| 1½"-#9 | 0.128 | 130 | 1.33 | 3.00 | 1.077 | 2.500 | 0.155 | 0.135 | 0.338 | 77% |

^AThe minimum thickness is absolute, not subject to minus variation.

^BA variation in weight per square ft. of ±10 % is permissible, based on the weight of any sheet or bundle.

^CA tolerance of ±10 % is permitted in dimensions, center to center.



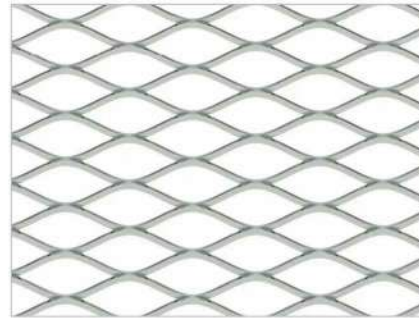
2. Flattened Expanded Metal

Key Features:

- **Flat, Smooth Surface:** Prevents scratch injuries.
- **Lightweight with High Strength and Rigidity:** Combines lightness with robustness for versatile use.
- **Economical and Durable:** Cost-effective and long-lasting, suitable for various applications.
- **Easy to Install and Maintain:** Simplifies the installation process and reduces maintenance efforts.



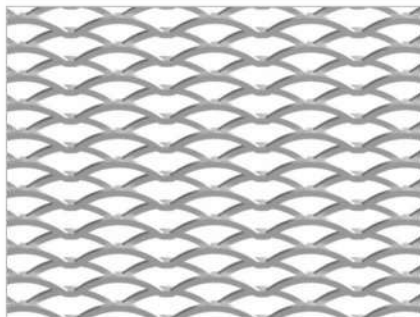
Hole Pattern



Diamond



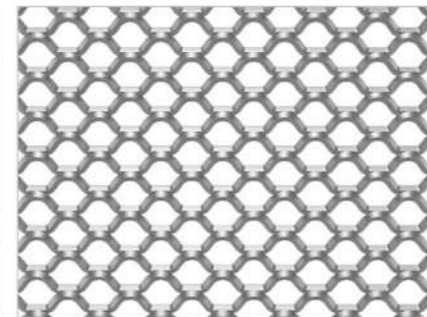
Hexagonal



Fan Shaped



Gothic



Round

Table 1: Specifications of Carbon Steel Flattened Expanded Metal

| Style | Minimum Thickness (inches) ^A | Nominal Weight in lbs./100 Sq. Ft. ^B | Design Size (inches) ^C | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|---|-----------------------------------|------|------------------------------------|-------|----------------------|-----------|----------------------------|-----------|
| | | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| ¼"-#20 | 0.026 | 74 | 0.250 | 1.05 | 0.092 | 0.715 | 0.079 | 0.029 | 0.029 | 37% |
| ¼"-#18 | 0.034 | 100 | 0.250 | 1.05 | 0.090 | 0.715 | 0.080 | 0.038 | 0.038 | 36% |
| ½"-#20 | 0.026 | 37 | 0.500 | 1.26 | 0.342 | 1.000 | 0.079 | 0.029 | 0.029 | 68% |
| ½"-#18 | 0.034 | 61 | 0.500 | 1.26 | 0.306 | 1.000 | 0.097 | 0.038 | 0.038 | 61% |
| ½"-#16 | 0.043 | 77 | 0.500 | 1.26 | 0.304 | 1.000 | 0.098 | 0.048 | 0.048 | 61% |
| ½"-#13 | 0.066 | 126 | 0.500 | 1.26 | 0.286 | 1.000 | 0.107 | 0.072 | 0.072 | 57% |
| ¾"-#16 | 0.043 | 47 | 0.923 | 2.10 | 0.701 | 1.750 | 0.111 | 0.048 | 0.048 | 76% |
| ¾"-#14 | 0.054 | 56 | 0.923 | 2.10 | 0.713 | 1.760 | 0.105 | 0.060 | 0.060 | 77% |
| ¾"-#13 | 0.066 | 67 | 0.923 | 2.10 | 0.711 | 1.781 | 0.106 | 0.072 | 0.072 | 67% |
| ¾"-#10 | 0.066 | 102 | 0.923 | 2.10 | 0.603 | 1.755 | 0.160 | 0.072 | 0.072 | 65% |
| ¾"-#9 | 0.101 | 157 | 0.923 | 2.10 | 0.593 | 1.688 | 0.165 | 0.108 | 0.108 | 64% |
| 1"-#16 | 0.043 | 38 | 1.000 | 2.52 | 0.804 | 2.250 | 0.098 | 0.048 | 0.048 | 80% |
| 1½"-#16 | 0.043 | 35 | 1.330 | 3.15 | 1.092 | 2.750 | 0.119 | 0.048 | 0.048 | 82% |
| 1½"-#14 | 0.054 | 43 | 1.330 | 3.15 | 1.098 | 2.750 | 0.116 | 0.060 | 0.060 | 83% |
| 1½"-#13 | 0.066 | 51 | 1.330 | 3.15 | 1.098 | 2.750 | 0.116 | 0.072 | 0.072 | 83% |
| 1½"-#9 | 0.101 | 105 | 1.330 | 3.15 | 1.014 | 2.563 | 0.158 | 0.108 | 0.108 | 76% |

Table 2: Specifications of Stainless Steel Flattened Expanded Metal

| Style | Minimum Thickness (inches) ^A | Nominal Weight in lbs./100 Sq. Ft. ^B | Design Size (inches) ^C | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|---|-----------------------------------|------|------------------------------------|-------|----------------------|-----------|----------------------------|-----------|
| | | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| ½"-#18 | 0.037 | 66 | 0.500 | 1.26 | 0.304 | 1.000 | 0.098 | 0.041 | 0.041 | 61% |
| ½"-#16 | 0.047 | 84 | 0.500 | 1.26 | 0.302 | 1.000 | 0.099 | 0.051 | 0.051 | 60% |
| ½"-#13 | 0.072 | 136 | 0.500 | 1.26 | 0.236 | 0.915 | 0.107 | 0.076 | 0.076 | 57% |
| ¾"-#18 | 0.037 | 43 | 0.923 | 2.10 | 0.687 | 1.812 | 0.118 | 0.041 | 0.041 | 74% |
| ¾"-#16 | 0.047 | 54 | 0.923 | 2.10 | 0.687 | 1.812 | 0.118 | 0.051 | 0.051 | 74% |
| ¾"-#13 | 0.072 | 83 | 0.923 | 2.10 | 0.683 | 1.750 | 0.120 | 0.076 | 0.076 | 74% |
| ¾"-#9 | 0.108 | 185 | 0.923 | 2.10 | 0.593 | 1.687 | 0.179 | 0.114 | 0.114 | 61% |
| 1½"-#16 | 0.047 | 41 | 1.33 | 3.15 | 1.074 | 2.750 | 0.128 | 0.051 | 0.051 | 81% |
| 1½"-#13 | 0.072 | 62 | 1.33 | 3.15 | 1.070 | 2.625 | 0.130 | 0.076 | 0.076 | 80% |
| 1½"-#9 | 0.108 | 124 | 1.33 | 3.15 | 0.960 | 2.625 | 0.174 | 0.114 | 0.114 | 74% |

^AThe minimum thickness is absolute, not subject to minus variation.

^BA variation in weight per square ft. of ±10 % is permissible, based on the weight of any sheet or bundle.

^CA tolerance of ±10 % is permitted in dimensions, center to center.

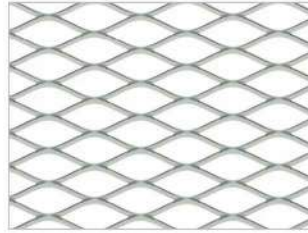
3. Expanded Metal Grating

Key Features:

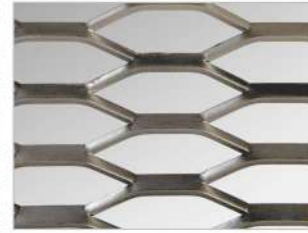
- **Anti-Skid Design:** The three-dimensional structure provides excellent anti-skid performance.
- **High Open Area:** Efficiently displaces snow, mud, and dirt, keeping walkways clean and ensuring a firm foothold.
- **Strength-to-Weight Ratio:** Delivers exceptional load capacity for safe passage.
- **Sturdy and Durable:** Offers robust construction with low maintenance costs.



Hole Pattern



Diamond



Hexagonal

Table 1: Specifications of Carbon Steel Expanded Metal Grating

| Style | Nominal Weight in lbs./100 Sq. Ft. ^A | Design Size (inches) ^B | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|-----------------------------------|------|------------------------------------|------|----------------------|-----------|----------------------------|-----------|
| | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| 2.0 lb. | 2.00 | 1.33 | 5.33 | 1.000 | 3.60 | 0.235 | 0.135 | 0.460 | 77% |
| 3.0 lb. | 3.00 | 1.33 | 5.33 | 0.940 | 3.44 | 0.264 | 0.183 | 0.540 | 60% |
| 3.14 lb | 3.14 | 2.00 | 6.00 | 1.625 | 4.88 | 0.312 | 0.250 | 0.656 | 69% |
| 4.0 lb | 4.00 | 1.33 | 5.33 | 0.940 | 3.44 | 0.300 | 0.215 | 0.618 | 55% |
| 4.27 lb | 4.27 | 1.41 | 4.00 | 1.000 | 2.88 | 0.300 | 0.250 | 0.625 | 58% |
| 5.0 lb | 5.00 | 1.33 | 5.33 | 0.813 | 3.38 | 0.331 | 0.250 | 0.655 | 50% |
| 6.25 lb | 6.25 | 1.41 | 5.33 | 0.813 | 3.38 | 0.350 | 0.312 | 0.715 | 50% |
| 7.0 lb | 7.00 | 1.41 | 5.33 | 0.813 | 3.38 | 0.391 | 0.318 | 0.740 | 45% |

Table 2: Specifications of Stainless Steel Expanded Metal Grating

| Style | Nominal Weight in lbs./100 Sq. Ft. ^A | Design Size (inches) ^B | | Opening Size (inches) ^C | | Strand Size (inches) | | Overall Thickness (inches) | Open Area |
|---------|---|-----------------------------------|-----|------------------------------------|------|----------------------|-----------|----------------------------|-----------|
| | | SWD | LWD | SWO | LWO | Width | Thickness | | |
| 3.3 lb. | 3.32 | 2.00 | 6.0 | 1.625 | 4.88 | 0.312 | 0.250 | 0.656 | 69% |
| 4.5 lb. | 4.25 | 1.41 | 4.0 | 1.000 | 2.88 | 0.300 | 0.250 | 0.625 | 58% |

^A A variation in weight per square ft. of $\pm 5\%$ is permissible, based on the weight of any sheet or bundle.

^B A tolerance of $\pm 5\%$ is permitted in dimensions, center to center.

At Emirerri, quality is our top priority. For us, quality means more than just durability and defect-free products; it encompasses the utility and applicability of our products to meet the specific needs of our customers. We are dedicated to producing products that fulfill diverse requirements and purposes.

To achieve this, we have implemented stringent quality control measures, ensuring superior quality and zero-defect products. Quality checks are performed at various stages of production and supply, and we only source raw materials from reliable and established vendors.

We believe that "the bitterness of poor quality remains long after low pricing is forgotten." Therefore, we maintain rigorous quality checks throughout our processes.

Our high quality standards are upheld by our committed personnel and robust infrastructure. To guarantee the quality of each material, we provide **Material Test Certificates** with every supply. Our team of experts vigilantly monitors the quality of our products, ensuring that every single piece is accompanied by test certificates and reports. Emirerri is dedicated to continuously improving quality to better serve our clients.

Emirerri Objectives: We consider three elements essential for the overall quality of our services:

- **Independence & Objectivity**
- **Technical & Scientific Quality**
- **Practical Benefits to Clients**

Quality Control: We exercise stringent quality control measures to ensure the accurate dimensions and mechanical properties of our products. Our products undergo a rigorous quality assurance system, which includes:

- **Certification and Supplementary Tests**
- **Finishing and Marketing**
- **Material Control System**
- **Machining and Dimensional Control**
- **Process Control System**

Quality Assurance: Our quality assurance system is guided by principles that support our unique working culture, which includes respect, self-management, open communication, and creativity.

Principles:

- Strive to have the best quality and technologies in our industry.
- Care about our client's time and money.
- Honor our words and the trust our clients place in us.
- Honor with integrity and commitment.

Our Quality Standards: At Emirerri, our quality standards are exceptional. We understand our customers' requirements and supply products that have passed a series of rigorous Quality Assurance and Quality Control measures. Across the entire business supply chain, operations, and marketing, appropriate quality assurance systems are in place to ensure accuracy at each step of the business cycle.

Emirerri Steel is committed to maintaining and continually improving our quality standards to exceed customer expectations and ensure complete satisfaction.



Emirerri Steel Manufacturer Private Limited

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