

TECHOPERA

Metal system and installation

2022
PIPING
Product catalog



TECHNOPERA

Metal system and installation

About us

Tecnoopera is a company specializing in three main areas:

- Piping, bolts and studs
- Grating and gates
- Metal Structures

With thirty years of experience and presence in Europe and the Middle East, Tecnoopera points to the leadership in the Euro-Mediterranean market.

The values on which Tecnoopera has chosen to base its activities are product safety, professionalism of its team and full satisfaction of the customers.

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Pipe





Pipe Seamless

Standard

- ASTM/ASME A/SA 53
- ASTM/ASME A/SA 106
- ASTM/ASME A/SA 333
- API 5L
- EN 10208 -1
- EN 10210
- EN 10216 - 1
- EN 10216 - 2
- EN 10224
- EN 10255
- EN 10297
- UNI 7683

Carbon Steel

Grade

- B
- B-C
- 6
- B(L245) - X42(L290) - X52(L360) - X60(L415) - X65(L450)
- L235
- S355JOH - S355J2H
- P235
- P235GH - P265GH
- L235
- S195T
- E355 - E470
- FE360

Dimension

da 1/4" a 24"

Standard

- ASTM/ASME A/SA 312
- ASTM/ASME A/SA 269
- ASTM/ASME A/SA 358

Stainless Steel

Grade

- TP 304/304L-TP316/316L-TP321/321H
- TP 304/304L-TP316/316L-TP321
- TP 304/304L- P316/316L-TP321/321H

Dimension

da 1/2" a 24"

Standard

- ASTM/ASME A/SA 335

Grade

- P5
- P9
- P11
- P22
- P91

Dimension

da 1/2" a 24"

Alloy Steel

Pipe

Welded LSAW



Standard

- ASTM/ASME A/SA 53
- ASTM/ASME A/SA 106
- ASTM/ASME A/SA 333
- API 5L
- EN 10208 - 1
- EN 10210
- EN 10216 - 1
- EN 10216 - 2
- EN 10224
- EN 10255
- EN 10297
- UNI 7683

Carbon Steel

Grade

- B
- B-C
- 6
- B(L245) - X42(L290) - X52(L360) - X60(L415) - X65(L450)
- L235
- S355JOH - S355J2H
- P235
- P235GH - P265GH
- L235
- S195T
- E355 - E470
- FE360

Dimension

da 1/4" a 24"

Standard

- ASTM/ASME A/SA 312
- ASTM/ASME A/SA 269
- ASTM/ASME A/SA 358

Stainless Steel

Grade

- TP 304/304L-TP316/316L-TP321/321H
- TP 304/304L-TP316/316L-TP321
- TP 304/304L- P316/316L-TP321/321H

Dimension

da 1/2" a 24"



Pipe Welded EFW

Standard

- ASTM/ASME A/SA 53
- ASTM/ASME A/SA 106
- ASTM/ASME A/SA 333
- API 5L
- EN 10208 -1
- EN 10210
- EN 10216 - 1
- EN 10216 - 2
- EN 10224
- EN 10255
- EN 10297
- UNI 7683

Carbon Steel

Grade

- B
- B-C
- 6
- B(L245) - X42(L290) - X52(L360) - X60(L415) - X65(L450)
- L235
- S355JOH - S355J2H
- P235
- P235GH - P265GH
- L235
- S195T
- E355 - E470
- FE360

Dimension

da 1/4" a 24"

Standard

- ASTM/ASME A/SA 312
- ASTM/ASME A/SA 269
- ASTM/ASME A/SA 358

Stainless Steel

Grade

- TP 304/304L-TP316/316L-TP321/321H
- TP 304/304L-TP316/316L-TP321
- TP 304/304L- P316/316L-TP321/321H

Dimension

da 1/2" a 24"



Pipe

Welded ERW

Standard

- ASTM/ASME A/SA 53
- ASTM/ASME A/SA 106
- ASTM/ASME A/SA 333
- API 5L
- EN 10208 -1
- EN 10210
- EN 10216 - 1
- EN 10216 - 2
- EN 10224
- EN 10255
- EN 10297
- UNI 7683

Carbon Steel

Grade

- B
- B-C
- 6
- B(L245) - X42(L290) - X52(L360) - X60(L415) - X65(L450)
- L235
- S355JOH - S355J2H
- P235
- P235GH - P265GH
- L235
- S195T
- E355 - E470
- FE360

Dimension

da 1/4" a 24"

Standard

- ASTM/ASME A/SA 312
- ASTM/ASME A/SA 269
- ASTM/ASME A/SA 358

Stainless Steel

Grade

- TP 304/304L-TP316/316L-TP321/321H
- TP 304/304L-TP316/316L-TP321
- TP 304/304L- P316/316L-TP321/321H

Dimension

da 1/2" a 24"

Fitting BUTT WELD | SOCKET WELD | THREADED



Fitting

Butt Weld / Socket Weld / Threaded

Elbow



Production

Standard:

• ASME B16.25

Dimension

1/2" – 42" (oltre a richiesta)

Material

• ASTM A 234 WPB WPC WP1 WP5 WP9 WP11 WP22 WP91 WP911

• ASTM A 420 WPL6 WPL3

• ASTM A 403 WP 304-304L – 316-316L – 321

• Acciai e leghe speciali a richiesta

• ASTM A860 WPHY42 – WPHY52 – WPHY60 – WPHY65 – WPHY70

Fitting

Butt Weld / Socket Weld / Threaded

TEE



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS – SP 75
- EN 10253-1
- EN 10253-2
- EN 10253-4

Dimension

1/2" – 42" (oltre a richiesta)

Smooth

Standard:

- ASME B16.25
- EN 10253-1
- EN 10253-2
- EN 10253-4

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9 WP91 – WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- ASTM/ASME A/SA 403 WP304/304L + WP 316/316L
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- EN 10253-2 P235GH/P265GH/P355NH/P355NL-1/L360NB/L415QB/X11CrMo9-1/13CrMo4-5/10CrMo9-10/L290NB
- 16Mo03/P265NL/X11CrMo5
- EN 10253-4 X6 CrNiTi 10-10/X2 CrNiMo 17-12-2
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Fitting

Butt Weld / Socket Weld / Threaded

CONCENTRIC - ECCENTRIC REDUCERS



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS – SP 75
- EN 10253-1
- EN 10253-2
- EN 10253-4

Dimension

3/4" x 1/2" – 48" x 30"
(oltre a richiesta)

Smooth

Standard:

- ASME B16.25
- EN 10253-1
- EN 10253-2
- EN 10253-4

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9 – WP91 WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- EN 10253-2 P235GH/P265GH/P355NH/P355NL 1 L360NB/L415QB/X11CrMo9-1/13CrMo4-5/10CrMo9-10/L290NB
- 16Mo03/P265NL/X11CrMo5
- EN 10253-4 X6 CrNiTi 10-10/X2 CrNiMo 17-12-2
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Fitting Butt Weld / Socket Weld / Threaded CAPS



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS – SP 75
- EN 10253-1
- EN 10253-2
- EN 10253-4

Dimension

1/2" – 48" (oltre a richiesta)

Smooth

Standard:

- ASME B16.9 – ASME B16.25
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS SP-75

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9 – WP91 WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- EN 10253-2 P235GH/P265GH/P355NH/P355NL 1 L360NB/L415QB/X11CrMo9-1/13CrMo4-5/10CrMo9-10/L290NB
- 16Mo03/P265NL/X11CrMo5
- EN 10253-4 X6 CrNiTi 10-10/X2 CrNiMo 17-12-2
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Fitting

Butt Weld / Socket Weld / Threaded

BARRED TEE



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS – SP 75

Dimension

1/2" – 42" (oltre a richiesta)

Smooth

Standard:

- ASME B16.25

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9 – WP91 WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65 – WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Fitting

Butt Weld / Socket Weld / Threaded

LATERAL TEE



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS – SP 75

Dimension

1/2" – 42" (oltre a richiesta)

Smooth

Standard:

- ASME B16.25

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9 – WP91 WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65 WPHY70
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65 – WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Fitting

Butt Weld / Socket Weld / Threaded

CROSS



Production

Standard:

- ASME B16.9 – ASME B16.25
- DIN 2605 – 2615 – 2616 – 2617
- MSS SP-25
- AFNOR NFA 49 – 281
- MSS SP-75
- EN 10253-1
- EN 10253-2
- EN 10253-4

Dimension

Senza saldatura: 1" – 16" ;
Saldate: 18" – 48"

Smooth

Standard:

- ASME B16.25
- EN 10253-1
- EN 10253-2
- EN 10253-4

Material

- ASME/ASTM SA/A 234 WPB – WP11 – WP22 – WP9
WP91 – WP5 – WP12
- ASME/ASTM SA/A 420 WPL6
- ASTM A 860 – WPHY42 – WPHY52 – WPHY60 – WPHY65
WPHY70
- ASTM/ASME A/SA 403 WP304/304L + WP 316/316L
- MSS SP-75 WPHY42 – WPHY52 – WPHY60 – WPHY65
WPHY70
- NACE MR0175 / ISO15156-2:2015 A.2
- NACE MR0103 / ISO17345:2015, 13.1&15
- EN 10253-2 P235GH / P265GH
- EN 10253-2 P235GH/P265GH/P355NH/P355NL-1/L360NB/
L415QB/X11CrMo9-1/13CrMo4-5/10CrMo9-10/L290NB
- 16Mo03/P265NL/X11CrMo5
- EN 10253-4 X6 CrNiTi 10-10/X2 CrNiMo 17-12-2
- DIN 2609 – ST35.8/I-ST37.0W
- AE250B NFA49 – 281
- A42CP NFA36 – 205
- AE220A NFA 49 – 281

Forged Fitting

BUTT WELD | SOCKET WELD | THREADED



Threaded Fitting

ELBOW 90° 45° - STREET ELBOW M/F

Production

Standard:

- ASME B 16.11
- BS 3799

Dimension

1/8" - 4"

Standard thread

ASME B 1.20.1 NPT

Series

2000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Threaded Fitting

TEE - CROSS



Production

Standard:

- ASME B 16.11
- BS 3799

Standard thread

ASME B 1.20.1 NPT

Dimension

1/8" - 4"

Series

2000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Threaded Fitting

COUPLING - HALF - REDUCING

Production

Standard:

- ASME B 16.11
- BS 3799

Standard thread

ASME B 1.20.1 NPT

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Threaded Fitting

CAP - HEX BUSHING - HEX, SQUARE, ROUND HEAD PLUG

Production

Standard:

- ASME B 16.11
- BS 3799

Dimension

1/8" - 4"

Standard thread

ASME B 1.20.1 NPT

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Threaded Fitting

UNION - M/F UNION



Production

Standard:

- MSS SP 83
- BS 3799

Dimension

1/8" - 4"

Standard thread

ASME B 1.20.1 NPT

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Threaded Fitting

HEX NIPPLE - REDUCING HEX NIPPLE - F/M REDUCER

Production

Standard:

• BS 3799

Dimension

1/8" - 4"

Standard thread

ASME B 1.20.1 NPT

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Threaded - Socket welding Fitting

PIPE NIPPLE - HALF PIPE NIPPLE



Production

Standard:

- ASME B 36.10
- BS 3799

Standard thread

- ASME B 1.20.1 NPT

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Dimension

1/8" - 4"

Series

STD SCH. 40
XS SCH. 80
SCH. 160
XXS

Threaded - Socket welding Fitting

SWAGE NIPPLE - ECCENTRIC SWAGE NIPPLE

Production

Standard:

• BS 3799

Dimension

1/8" - 4"

Standard thread

ASME B 1.20.1 NPT

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Socket Welding Fitting

90° ELBOW - TEE



Production

Standard:

- ASME B 16.11
- BS 3799

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Socket Welding Fitting

CROSS - 45* ELBOW

Production

Standard:

- ASME B 16.11
- BS 3799

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Socket Welding Fitting

COUPLING - REDUCING/HALF COUPLING - CAP

Production

Standard:

- ASME B 16.11
- BS 3799

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Socket Welding Fitting

UNION - M/F UNION

Production

Standard:

• BS 3799

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Socket Welding Fitting

REDUCER INSERT TYPE 1 - 2 - 3

Production

Standard:

• STANDARD DIMENSION

Dimension

1/2" - 2 1/2"

Series

3000 lb

ASTM/ASME

• A105
• A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
• A234 WPB
• A350 LF2
• A420 WPL6
• A182 (F1 - F9 - F12)
• A 182 F347
• A182 (F44 - F53 - F55 SUPER DUPLEX)
• A694 F52
• B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
• B164 - B166 - B408 - B425 - B574



Threaded - Socket welding Fitting

BOSS

Production

Standard:

• STANDARD DIMENSION

Dimension

1/4" - 2"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Threaded - Socket welding Fitting

SOCKET - THREADED BRANCH

Production

Standard:

• MSS SP 97

Dimension

1/8" - 4"

Series

3000 - 6000 lb

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Reinforced Butt-Welding Outlets

WELD BRANCHES STD-XS, 160 XXS



Production

Standard:

- MSS SP 97

Dimension

1/8" - 4"

Series

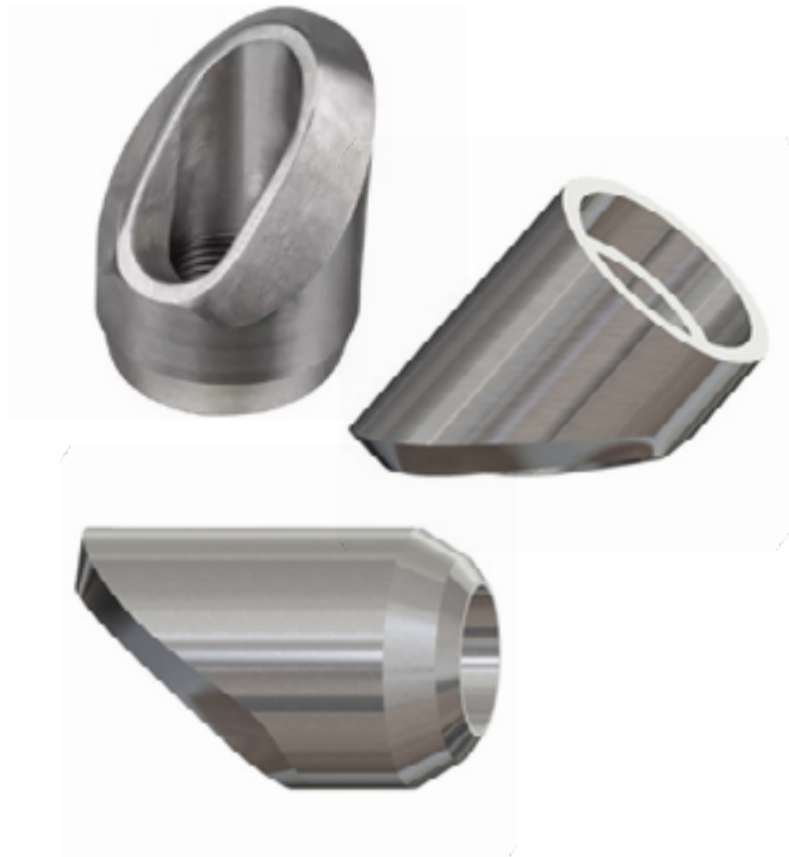
STANDARD WEIGHT AND EXTRA STRONG - SCHEDULE 160 AND DOUBLE EXTRA STRONG

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Threaded - Socket welding - Butt Weld Fitting

LATERAL - ELBOW BRANCHES



Production

Standard:

• STANDARD DIMENSION

Series

3000 - 6000 lb

Dimension

1/4" - 2"

Standard thread

ASME B 1.20.1 NPT

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574

Threaded - Socket welding - Butt Weld Fitting

REINFORCED BRANCHES FOR MALE CONNECTION

Production

Standard:

• STANDARD DIMENSION

Series

3000 - 6000 lb

Dimension

1/2" - 2"

Standard thread

ASME B 1.20.1 NPT

ASTM/ASME

- A105
- A182 (F5 - F11 - F22 - F91 - F304/F304L - F316/F316L - F321 - F51 DUPLEX)
- A234 WPB
- A350 LF2
- A420 WPL6
- A182 (F1 - F9 - F12)
- A 182 F347
- A182 (F44 - F53 - F55 SUPER DUPLEX)
- A694 F52
- B151 UNS C70600 (Cu-Ni 90/10 - ASTM - EN)
- B164 - B166 - B408 - B425 - B574



Flanges



SPECIAL FLANGES



Flanges

SLIP ON

STANDARD FLANGES



Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

SOCKET WELD



STANDARD FLANGES

Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

STANDARD FLANGES

WELD NECK - LONG WELD NECK



Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

BLIND



STANDARD FLANGES

Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

THREADED

STANDARD FLANGES



Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

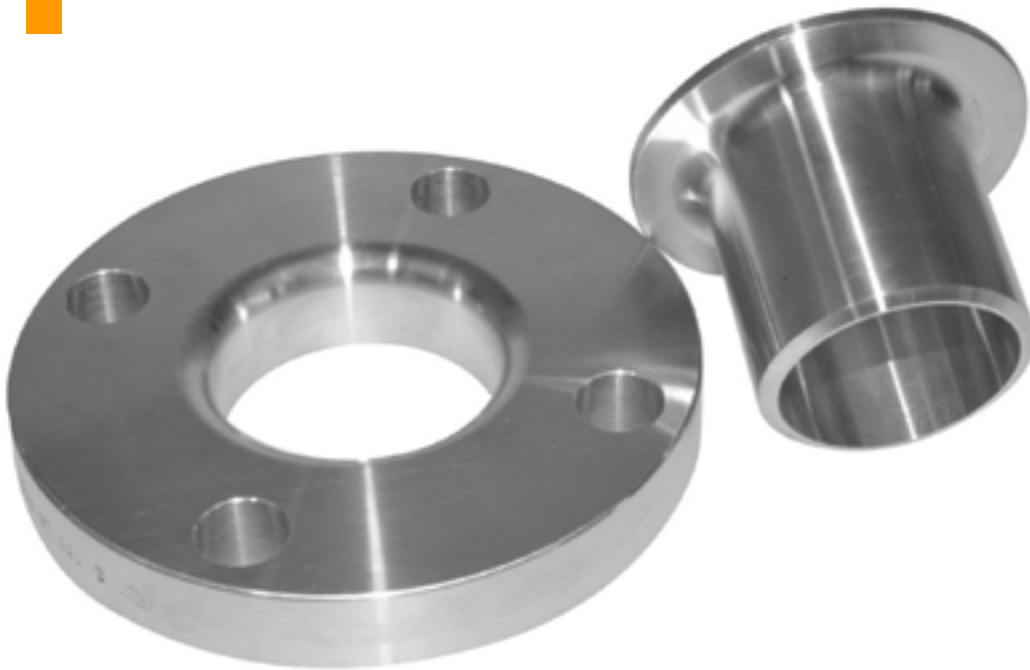
da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

LAP JOINT



STANDARD FLANGES

Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

SPECTACLE BLIND

SPECIAL FLANGES



Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

ORIFICE FLANGE



SPECIAL FLANGES

Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Flanges

DRIP RING



SPECIAL FLANGES

Standard

ASME B16.47
BS 3293
B16.36
DIN
AWWA
UNI EN
API
ISO
JIS B2220 Standards

Class

da ANSI 150 a ANSI 2500
API 5000/10000

Material

CS (A105, A350, A694, A707)
SS (A182)
ALLOY FLANGE (A182)
DUPLEX SUPER DUPLEX (A182)
Ni, CuNi, Alloy, INCONEL & INCOLOY grades
Age-Hardening Alloy (A859)

Valve



Valve

BALL VALVES



Standard

• BS 5351

Dimension

MFR STD

Class

• Fire safe design to API 607

• TEST PRESSURE TO API 598 bar

• 150 Lbs / PN16

Material

• A105N / 304

• A105N / 316

• 316 / 316

Valve

CHECK VALVE



Standard

• API 6D / ANSI B16.34

Dimension

ANSI B16.10

da 24" ANSI B16.5 a 26" MSS SP44 ANSI B16.47 API 605

Class

• ANSI B16.25 Butt-weld ends

• TEST API 598 / API 6D

• TEST PRESSURE TO API 598 Psi/bar

Material

• WCB

• LCB

• WC6

• C5

• CF8

• CF8M

• CF3

• CF3M

Valve

GATE VALVES



Standard

- API 600 / ANSI B16.34

Dimension

- ANSI B16.10

- da 24" ANSI B16.5 a 26" MSS SP44 ANSI B16.47 API 605

Class

- ANSI B16.25 Butt-weld ends

- TESTING API 598

- TEST PRESSURE TO API 598 Psi/bar

Material

- WCB

- LCB

- WC6

- C5

- CF8

- CF8M

- CF3

- CF3M

Valve

GLOBE VALVE



Standard

- API 6D / ANSI B16.34

Dimension

- ANSI B16.10

- da 24" ANSI B16.5 a 26" MSS SP44 ANSI B16.47 API 605

Class

- ANSI B16.25 Butt-weld ends

- TEST API 598 / API 6D

- TEST PRESSURE TO API 598 Psi/bar

Material

- WCB

- LCB

- WC6

- C5

- CF8

- CF8M

- CF3

- CF3M

Gasket



Gasket

SPIRAL WOUND



ASTM

EN 1514-1

ASME B16.21

Certification

TA-LUFT 2440

Thickness

3 mm

Gasket FLAT



ASTM

EN 1514-1

ASME B16.21

Cetification

SS316L

Thickness

3 mm

Composition

6 STRATI DI GRAFITE FLESSIBILE

5 LAMINE ACCIAIO A GRATTUGIA

Standard

AISI 316 L [SPESSORE DI 0,05 MM]

Tension

m: 2,5

Unit Load

y: 3000 psi

Gasket

RING JOINT / OCTAGONAL - OVAL



Standard

ASME B16.20 - API 6A

API 6A

ASME B16.20 - API 6A

Type

R

BX

RX

Compatibility

DIN flanges, ASME flanges

Dimensioni

FINO A 5000 mm

Material

SS 304L

SS 316L

SS 321

SS 430

Soft iron

Duplex alloy

Titanium

Nickel alloys

Gasket

CAMPROFILE



Standard

Ta-Luft VDI 2440

Dimension

up to 5000 mm

Thickness

from 2 mm - no limits for the maximum

Material

SS 304L
SS 316L
SS 321
SS 430
SOFT IRON
DUPLEX ALLOY
TITANIUM
NICKEL ALLOYS
NICKEL
BRASS
ALUMINIUM
COPPER

Fill Material

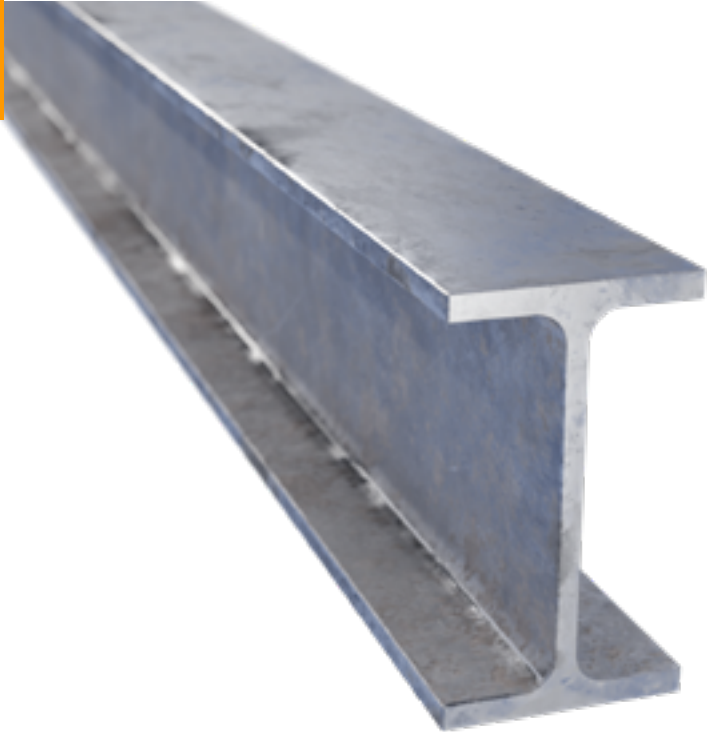
GRAPHITE
PTFE
CERAMIC FIBERS
GLASS FIBERS
ASBESTOS FREE

Metal Profile



Matel Profile

IPE



Dimension

IPE 80 -600

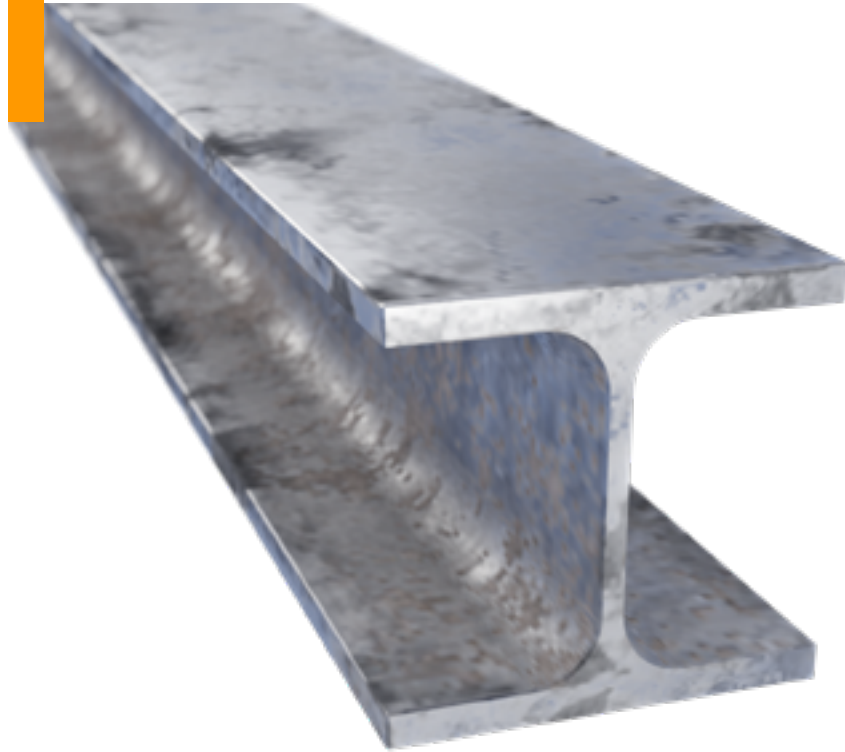
EN 10034

Certification

UNI 5398 (19-57)

Matel Profile

HEA - HEB - HEM



Dimension

HE 100-1000

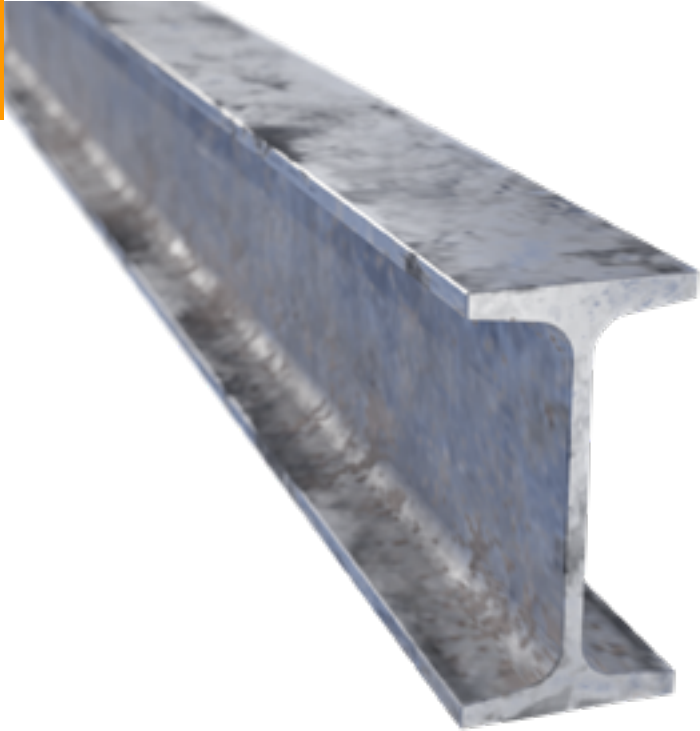
EN 10034

Certification

UNI 5397 (53-62)

Matel Profile

INP



Dimension

IPN 80 - 500

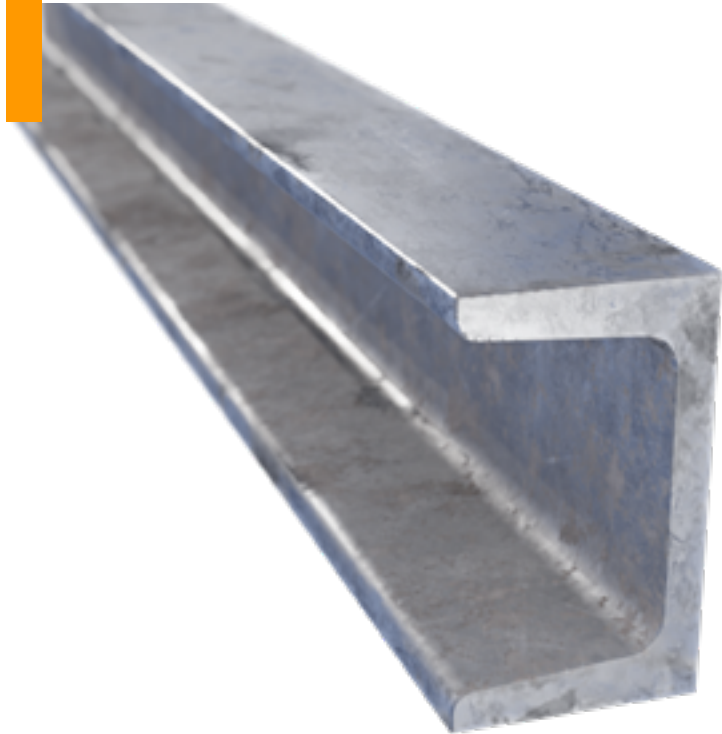
EN 10024

Certification

UNI 5679 (EU 56)

Matel Profile

UPN



Dimension

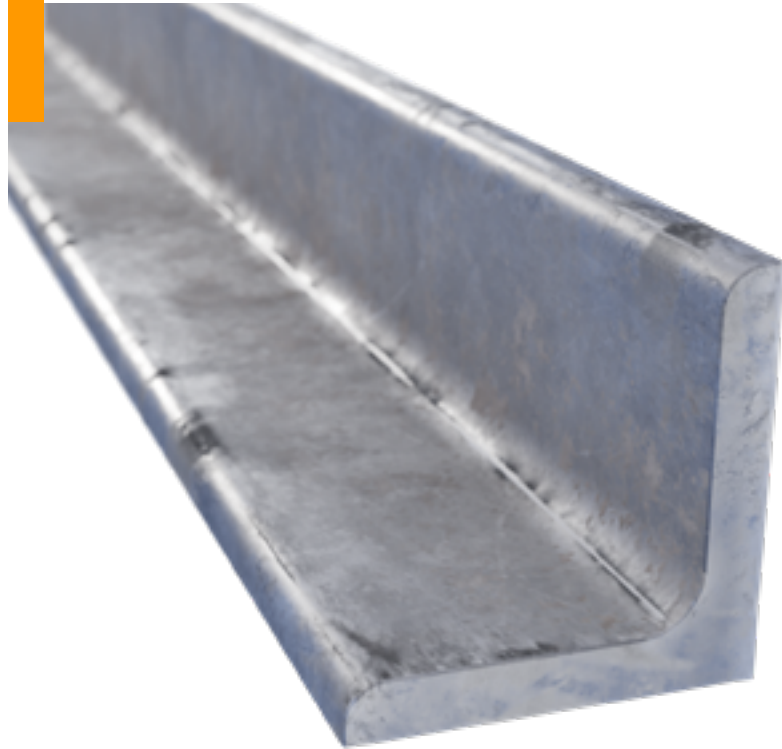
UPN 80 - 400

Certification

UNI EN 10279 / UNI EU 54

Matel Profile

ANGLE EQUAL SIDE



Dimension

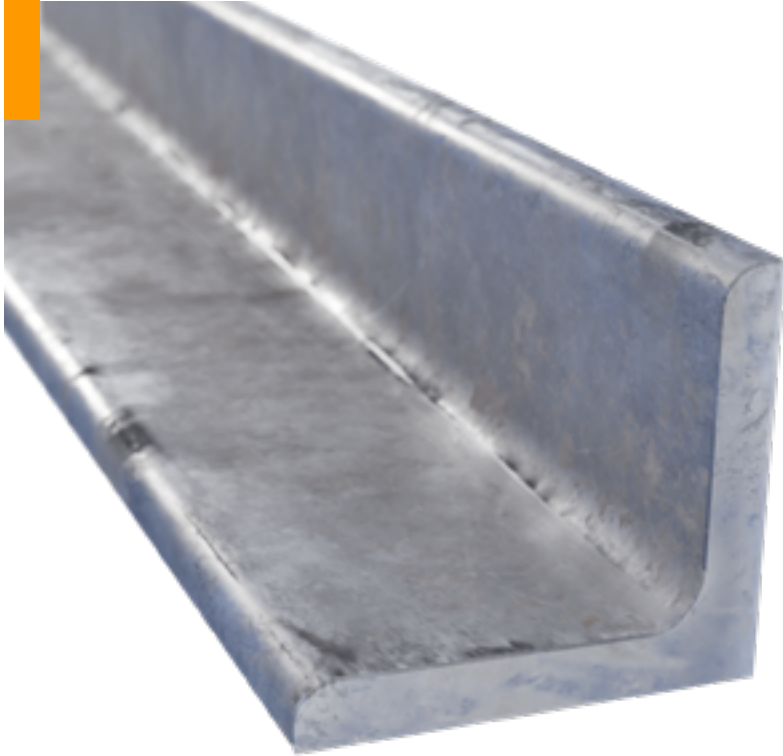
UNI EN 10056 1/2

Matel Profile

ANGLE UNEQUAL SIDE

Dimension

UNI EN 10056 1/2



Matel Profile

T



Dimension

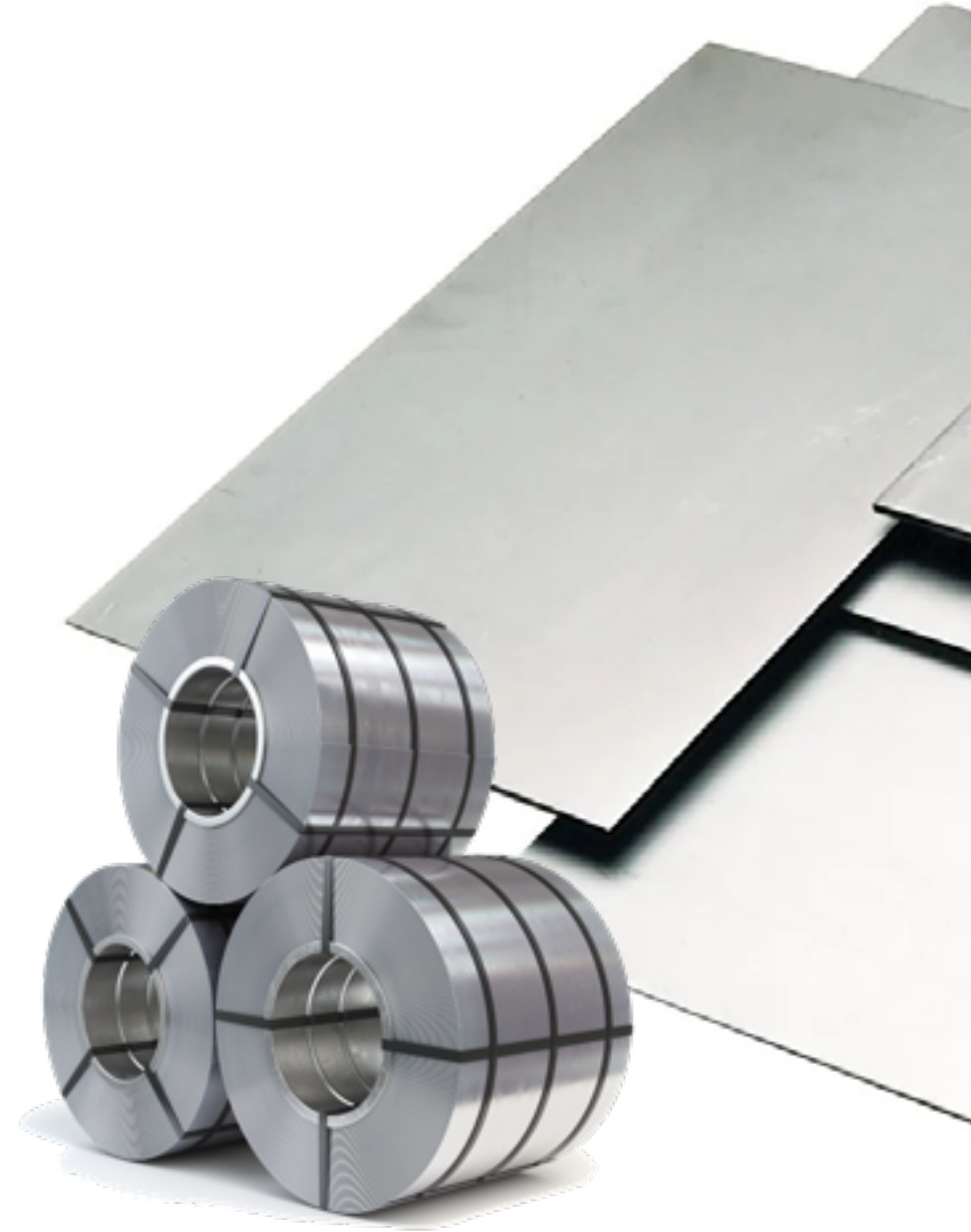
UNI 5681-73

EN 10024

Certification

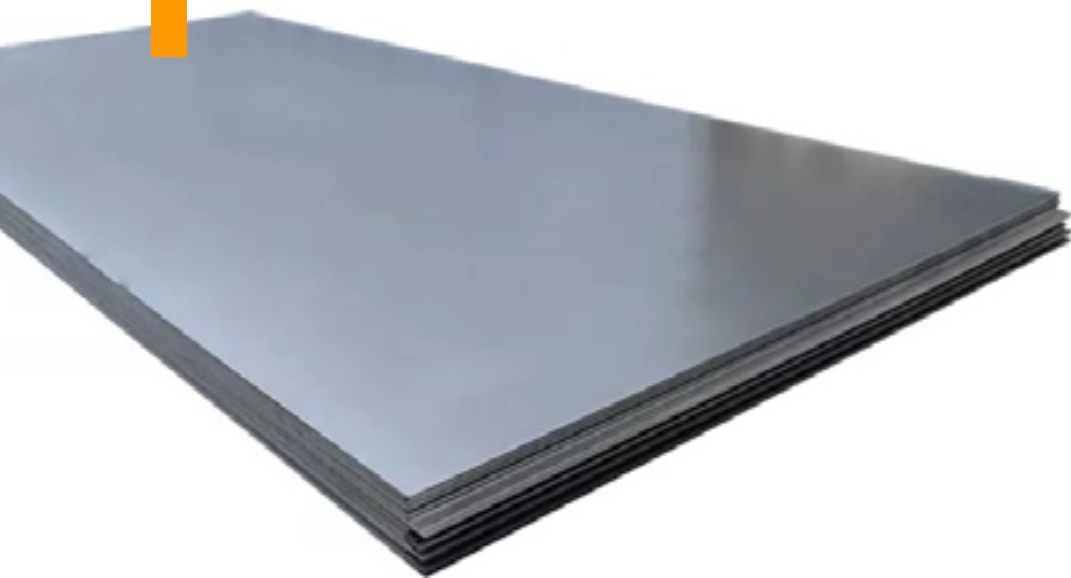
UNI 5679 (EU 56)

Steel Product



Steel product

UNALLOYED STRUCTURAL STEELS



Quality

• S275 / JR - J0 - J2+N	• 6 - 250	• 1000 - 3000
• S355 / JR - J0	• 6 - 600	• 1000 - 3000
• S355 / J2+N	• 6 - 450	• 1000 - 3000
• S460 / N - NL	• 8 - 90	• 2500 - 3000

Thickness

Width

Length

• fino a 12000

Certification

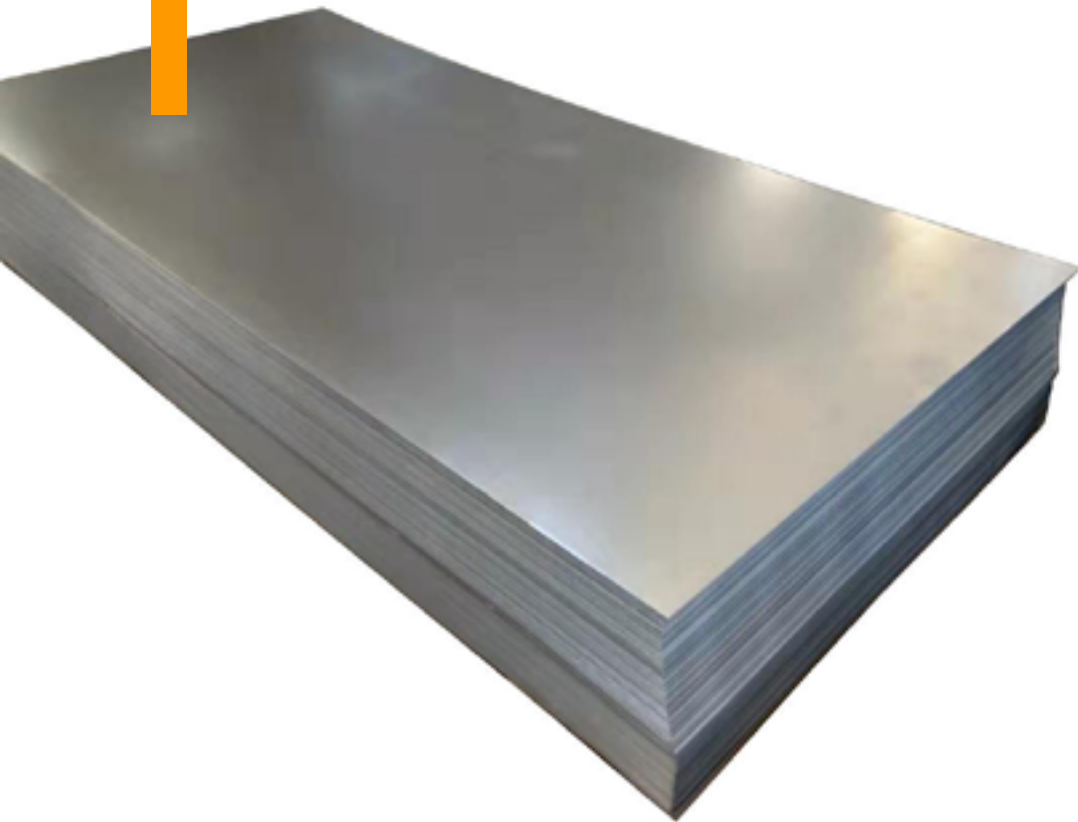
3.1 acc. to EN 10204

Standard

EN 10025-2 / EN 10025-3

Steel product

UNALLOYED STEELS FOR QUENCHING AND TEMPERING



Quality

- C45
- C45 +S / +N

Thickness

- 3 - 600
- 6 - 600

Width

- 1000 - 2500
- 1000 - 3000

Length

- fino a 12000

Certification

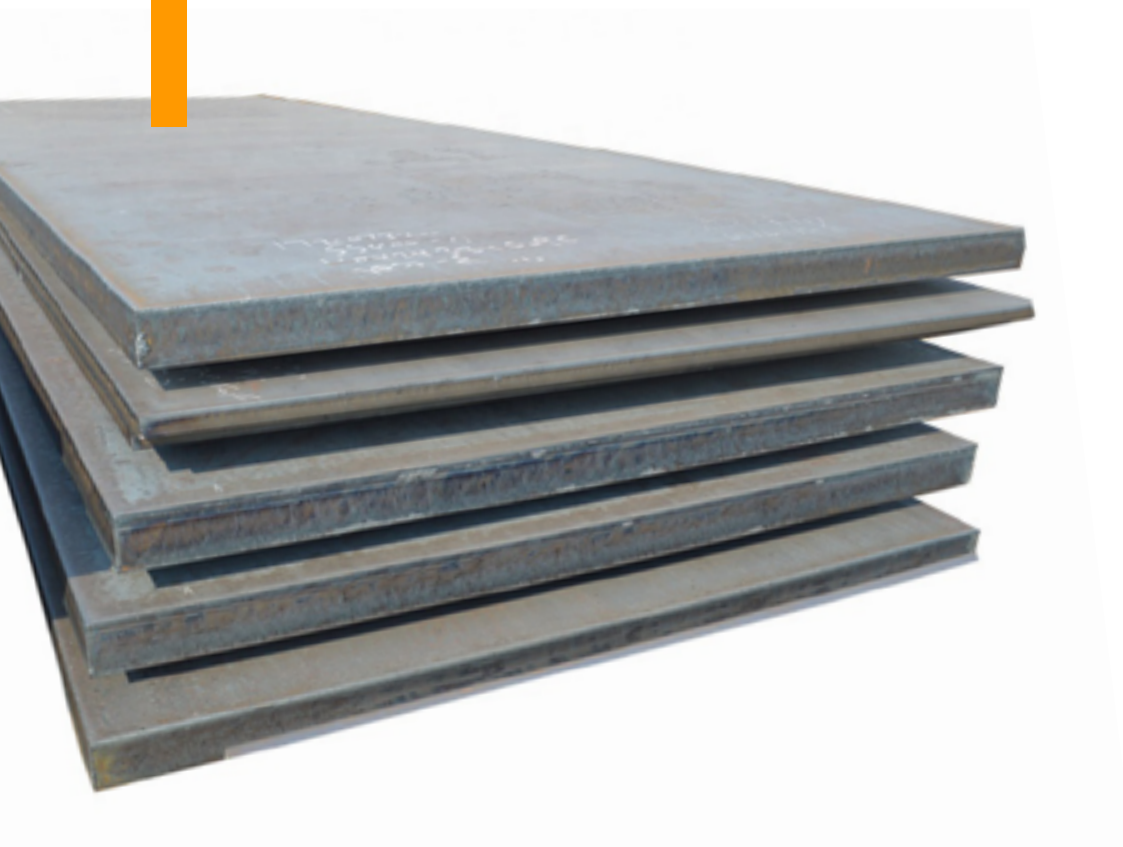
2.2 / 3.1 acc. to EN 10204

Standard

EN 10083-2

Steel product

STEELS FOR PLASTIC MOULDS



Quality

• 2311	• 20-800	• 1500 - 2500
• 2312	• 10-200	• 1500 - 2500
• 2738	• 3-600	• 1500 - 2500

Thickness

Width

Length

• fino a 8000

Quality

• 42 Cr Mo 4	• 10 - 200	• 2000 - 2500
• C45	• 3 - 600	• 1000 - 2500

Thickness

Width

Length

• fino a 12000

Certification

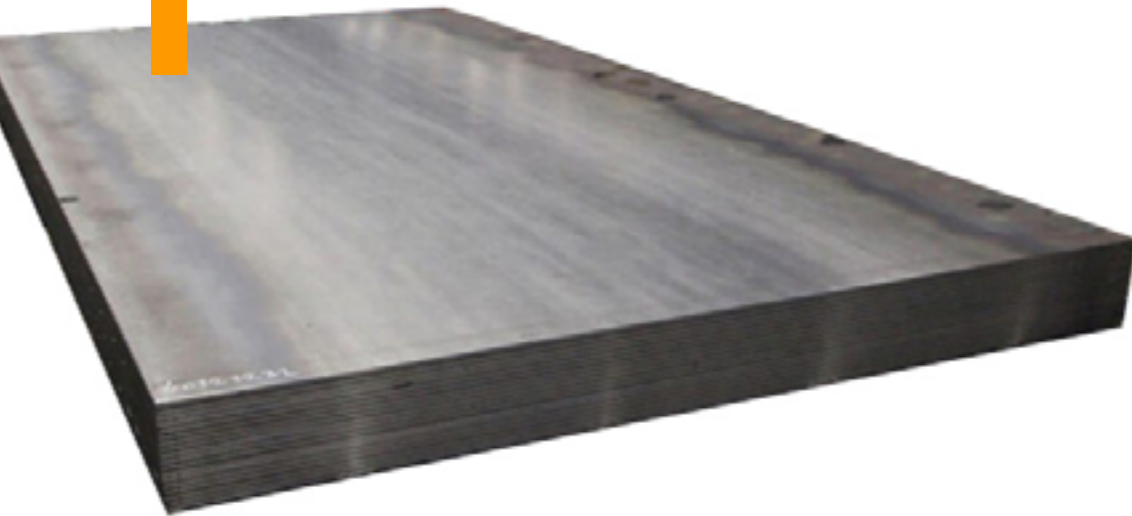
3.1 acc. to EN 10204 - 2.2/3.1 acc. to EN 10204

Standard

EN 10083-2

Steel product

FINE-GRAINED STRUCTURAL STEELS QUENCHED AND TEMPERED



Quality	Thickness	Width
• S700	• 3 - 10	• 1250-1500

Length

• fino a 8000

• S690 QL1	• 6 - 120	• 2000 - 2500
• S690 QL	• 130-250	• 2000 - 2500

Length

• fino a 12000

Quality	Thickness	Width
• S890 QL1	• 6-100	• 1500-3000

Length

• fino a 12000

Certification

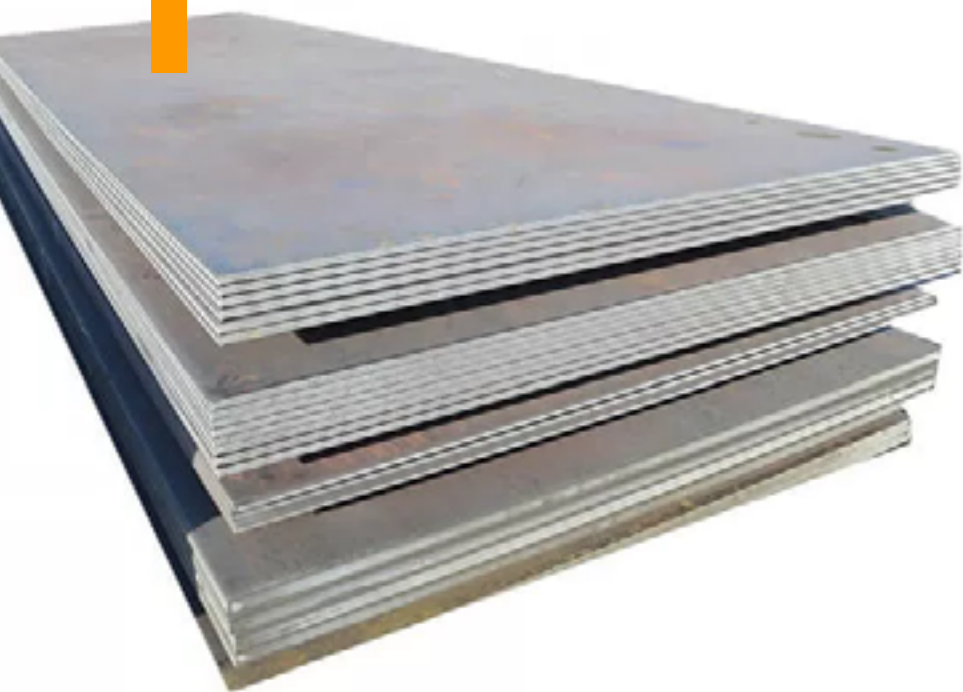
3.1 acc. to EN 10204

Standard

EN 10025-6

Steel product

WEAR RESISTANT STEELS



Quality Thickness Width

• BRINAR 400	• 6 - 80	• 2500
• BRINAR 500	• 6 - 60	• 2500

Length

• fino a 12000

Quality Thickness Width

• FORA 400	• 4 - 5	• 2000
------------	---------	--------

Length

• fino a 8000

Quality Thickness Width

• FORA 400	• 90-150	• 2000 - 2500
------------	----------	---------------

Length

• fino a 6000

Certification

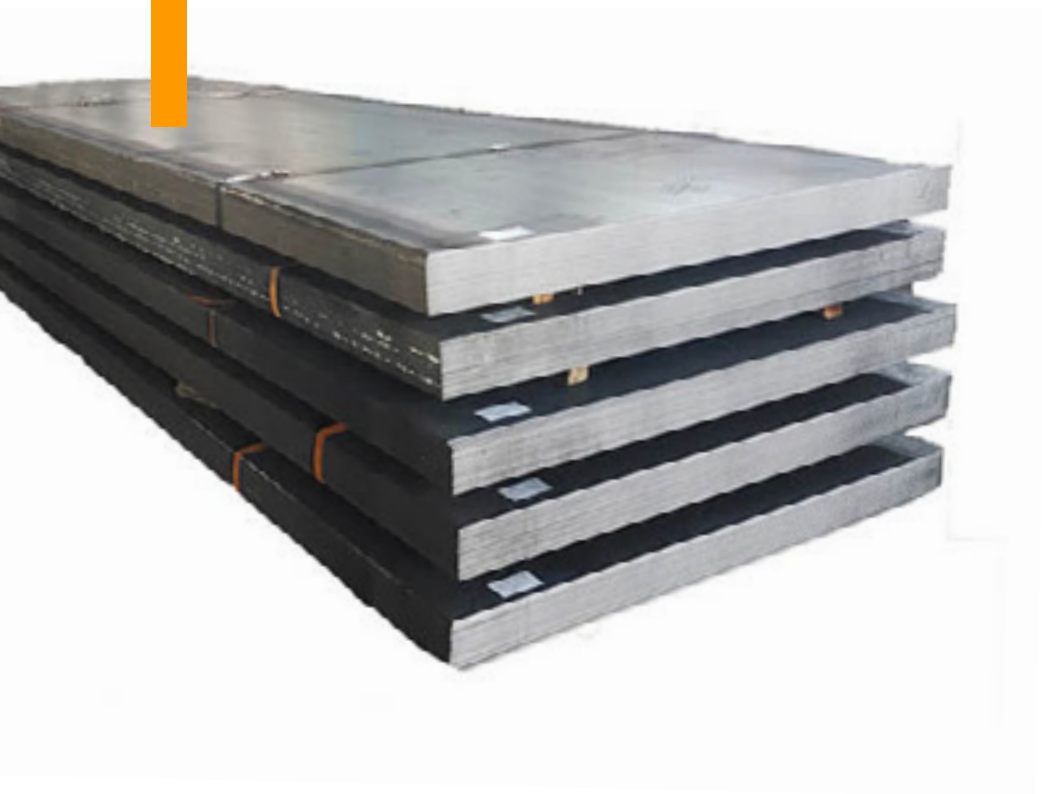
3.1 acc. to EN 10204 - 2.2/3.1 acc. to EN 10204

Standard

EN 10083-2

Steel product

ABRASION RESISTANT STEELS CREUSABRO ®



Quality

- CREUSABRO ® 4800
- CREUSABRO ® 4800

Thickness

- 3 - 120
- 4 - 50

Width

- 1500 - 2500
- 1500 - 2500

Length

- fino a 8000

Certification

3.1 acc. to EN 10204

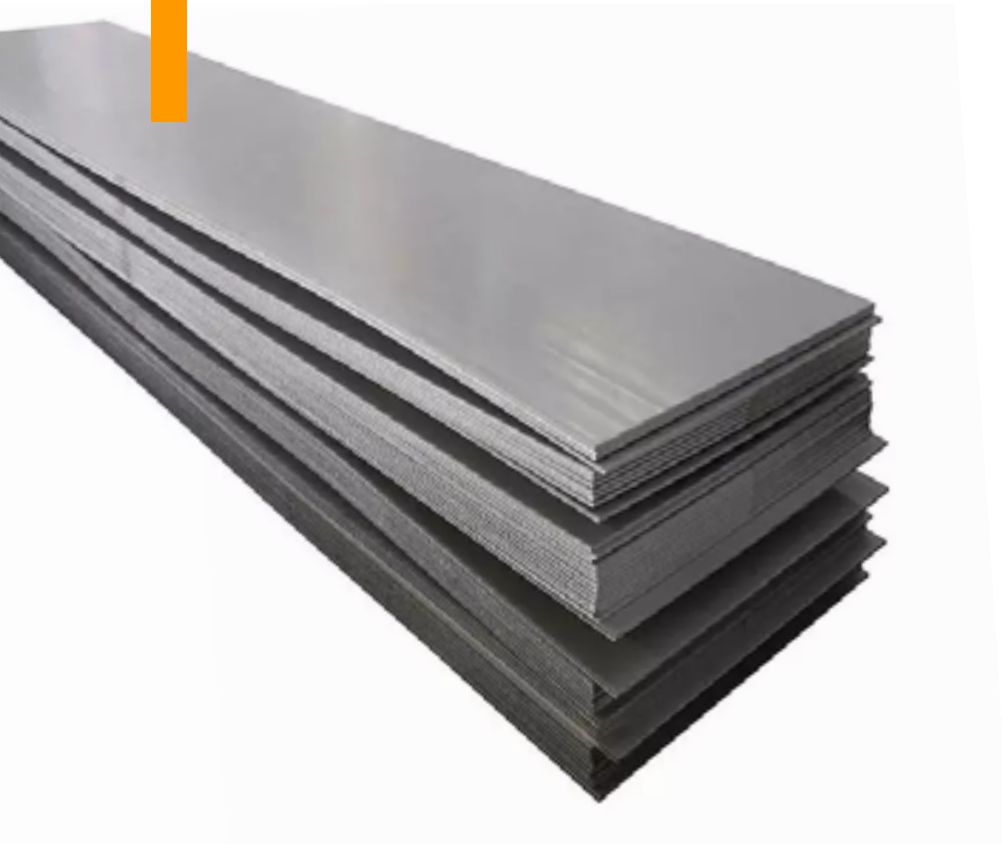
Standard

EN 10025-6

Steel product

STEEL PLATES FOR BOILERS AND PRESSURE VESSELS

UNALLOYED HIGH-TEMPERATURE STEELS



Quality

• P265 GH	• 6 - 130	• 2000 - 3000
• P295 GH	• 6 - 130	• 2000 - 3000
• P355 GH	• 6 - 130	• 2000 - 3000

Thickness

Width

Length

• fino a 12000

Certification

3.1 acc. to EN 10204 PED

Standard

EN 10028-2

Steel product

STEEL PLATES FOR BOILERS AND PRESSURE VESSELS

STANDARDIZED FINE GRADES STRUCTURAL STEELS



Quality	Thickness	Width
• P275 NH	• 4 - 130	• 2000 - 3000
• P355 NH	• 4 - 250	• 2000 - 3000
• P355 NL1	• 6 - 180	• 2000 - 3000
• P355 NL2	• 6 - 180	• 2000 - 3000
• P460 NH	• 8 - 90	• 2500 - 3000
• P460 NL2	• 8 - 90	• 2500 - 3000

Length

• fino a 12000

Certification

3.1 acc. to EN 10204 PED

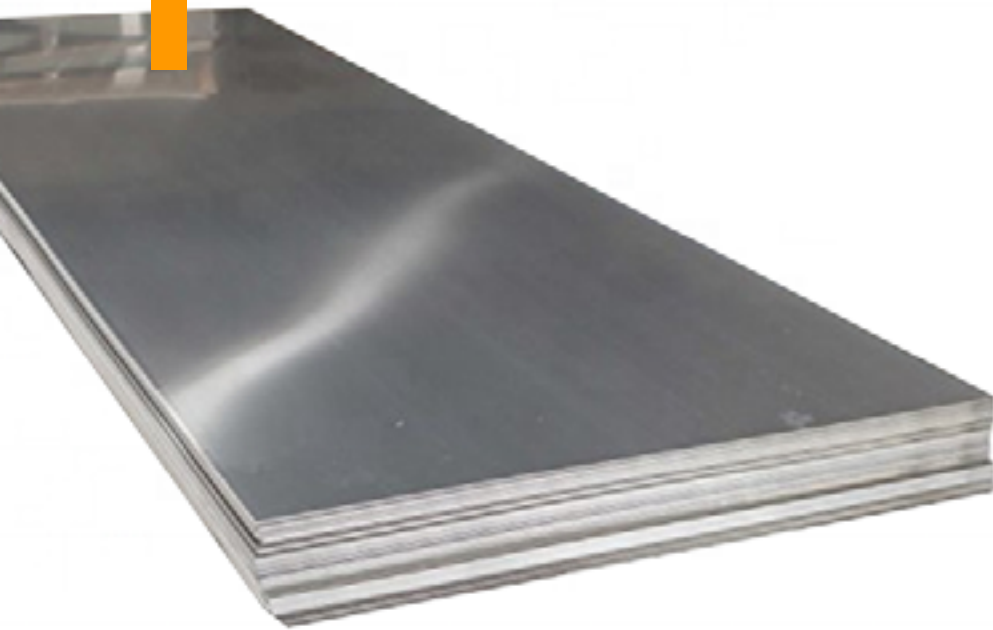
Standard

EN 10028-3

Steel product

STEEL PLATES FOR BOILERS AND PRESSURE VESSELS

AMERICAN STANDARD



Quality

• A / SA 516 GR. 60
• A / SA 516 GR. 70

Thickness

• 4 - 130
• 4 - 250

Width

• 2000 - 3000
• 2000 - 3000

Length

• fino a 12000

Certification

3.1 acc. to EN 10204

Standard

ASTM / ASME

Steel product

ALLOYED HIGH-TEMPERATURE STEELS



Quality

• 16 Mo 3

Thickness

• 5 - 150

Width

• 2000-3000

Standard

EN 10028-2

Quality

• A387

• A387

• A387

• A387

Thickness

• 4 - 130

• 4 - 250

• 6 - 180

• 6 - 180

Width

• 6 - 80

• 6 - 80

• 5 - 50

• 8 - 30

Length

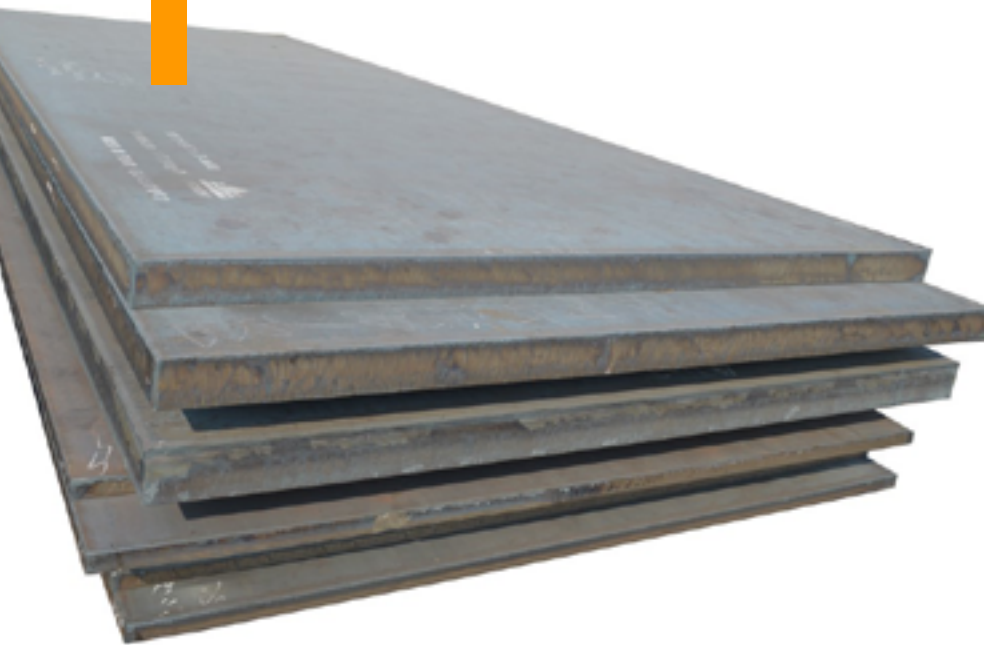
• fino a 12000

Certification

3.1 acc. to EN 10204

Standard

ASTM/ASME



Steel product

HIC RESISTANT STEEL FOR SOUR SERVICE

Quality

• A516 GR. 60
• A516 GR. 65
• A516 GR. 70

Thickness

• 8 - 110
• 8 - 110
• 8 - 110

Width

• 2500 - 3000
• 2500 - 3000
• 2500 - 3000

Length

• fino a 12000

Certification

3.2 acc. to EN 10204 – HIC tested CarElso HIC Premium® by Industeel

Steel product

ALLOYED STEELS FOR QUENCHING AND TEMPERING



Quality

• 30 MN B 5

Thickness

• 10 - 50

Width

• 2000

Length

• fino a 12000

Certification

3.1 acc. to EN 10204

Standard

EN 10083-3



Steel product

WEATHER RESISTANT STEEL



Quality

- S355 J0W+AR
- S355 J2W+N

Thickness

- 1.5 - 120
- 1.5 - 120

Width

- 1500 - 3000
- 1500 - 3000

Length

- fino a 12000

Certification

3.1 acc. to EN 10204

Standard

EN 10025-5

Stud Bolts



Stud Bolts

STUD BOLTS



Material

• ASTM A453 660/1.498
• UNS S32760 / ASTM A182 F55
• ALLOY 718
• ALLOY 625
• ALLOY 925
• MONEL 400
• MONEL 500
• DUPLEX
• SUPERDUPLEX
• ASTM A193
• ASTM A320
• ASTM F467
• ASTM F468

Dimension

da 5/16" a 7"

Thread standard

1" and smaller - UNIFIED COARSE THREAD SERIES CLASS 2A ASME B1.1
1 1/8" and larger - UNIFIED 8 THREAD SERIES CLASS 2A ASME B1.1

Stud Bolts

NUT



Material

- ASTM A453 660/1.498
- UNS S32760 / ASTM A182 F55
- ALLOY 718
- ALLOY 625
- ALLOY 925
- MONEL 400
- MONEL 500
- DUPLEX
- SUPERDUPLEX
- ASTM A193
- ASTM A320
- ASTM F467
- ASTM F468

Standard

ASME B 18.2.2 - TABLE 10

Dimension

da 3/8" a 4"

Stud Bolts

BOLT



Material

- ASTM A453 660/1.498
- UNS S32760 / ASTM A182 F55
- ALLOY 718
- ALLOY 625
- ALLOY 925
- MONEL 400
- MONEL 500
- DUPLEX
- SUPERDUPLEX
- ASTM A193
- ASTM A320
- ASTM F467
- ASTM F468

Standard

- HEAD CAP SCREWS ASME B 18.3
- SOCKET HEAD CAP SCREWS DIN 912
- HEX BOLTS in mm - ANSI/ASME 18.2.1
- HEAVY HEX BOLTS - ANSI/ASME 18.2.1
- HEXAGONAL BOLTS - DIN 931 - DIN 933

Stud Bolts

U BOLT



Material

- ASTM A453 660/1.498
- UNS S32760 / ASTM A182 F55
- ALLOY 718
- ALLOY 625
- ALLOY 925
- MONEL 400
- MONEL 500
- DUPLEX
- SUPERDUPLEX
- ASTM A193
- ASTM A320
- ASTM F467
- ASTM F468

Standard

- ASME B 18.31.5

Thread standard

- ASME B1.1 - ASME B1.13M - BS 84 - BS 3643

Metal system and installation

Siracusa, Italy



C.da Bondifè s.n. 96100 Melilli (SR)



+39 0931 1815920



info@tecnopera.com
caruso@tecnopera.com
magnano@tecnopera.com