



# **METALS INTERNATIONAL LIMITED**

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## Company Profile

**Metals International Limited** offers a comprehensive portfolio of tubular products, fittings and steel products including ERW Pipe, Longitudinal Welded Pipe (LSAW/DSAW), Spiral/Helical Welded (SSAW) Pipe, Carbon Seamless Pipe, Stainless Steel Tube, Epoxy Lined/FBE/2LPE/ 3LPE/3LPP/CWC Coated Pipe, Ductile Iron Pipe, Induction Bends, Flanges, Fittings, Fasteners and other metal products.

We are the approved vendor of Petronas, British Gas, Santos, PetroSA, Petrojet, WorleyParsons, SNC-Lavalin, Kellogg Brown & Root (KBR), Jemena, Arrow Energy, Petrojet, MOGE, Austria Energy & Environment (AEE), and Corporate Member of The Australian Pipeline Industry Association Ltd (APIA), Deep Foundation Institute (DFI), and Pile Driving Contractors Association (PDCA), etc.

All our products are manufactured in full conformity with international standards with high quality materials in production in line with its carefully set policies for sustainable quality; as possessing:

**Line Pipe:** API-5L PSL1/PSL2, ISO 3183-1/2/3, DNV OS-F-101, AS 2885, GOST 20295, IPS-M-PI-190, CSA Z245.1, KOC-MP-018, KOC-MP-019, AWWA C200, NACE MR0175, NACE TM0177, NACE TM0284

**OCTG:** API 5CT PSL1/PSL2/PSL3, ISO 11960, ISO 13680, API 5DP, API 7

**Structural Pipe:** ASTM A53, ASTM A513, ASTM 595, API 2B, AS 1163, AS 1074, AS1579, ASTM A252, BS 1387, DIN 2440, EN10210, EN10219, EN10225, EN 39

**EFW Pipe:** ASTM A 671, ASTM A672, ASTM A691

**Anti-Corrosion Coating:** CSA Z245.20, CSA Z245.21, DIN 30670, DIN 30678, API RP 5L2, AS 3862, ISO 21809-5, AWWA C210, AWWA C213, NFA 49-710

**Boiler Tube:** ASTM A106, ASTM A179, ASTM A192, ASTM A209, ASTM 210, ASTM A213, ASTM A333, ASTM A334, ASTM A335, ASTM A519, BS 3059-2, BS6323, DIN 2391, EN10305-4, AS 1450, AS 4041.

### Stainless Tube

**-SMLS:** ASTM A213, ASTM A269, ASTM A312, ASTM A789, ASTM A790, ASTM A998, EN 10216-5, API 5LC, API 5LD (CLAD PIPE)

**-EFW:** ASTM A249, ASTM A312, ASTM A358, ASTM A409, ASTM A554, ASTM A778, EN 10217-7, AS 1528.1

**Ductile Iron Pipe:** ASTM A2531, EN545, EN598, AS/NZS 2280

### Fittings:



# **METALS INTERNATIONAL LIMITED**

**Butt Weld Fitting-ASTM A105,A182,ASTM A234,ASTM A420,MSS SP-43,MSS SP-75**

**Forged Fitting-ASME B16.11,MSS SP-43,MSS SP-75**

**Stainless Pipe Fittings-MSS SP-43,ASTM A403,ASTM A815**

**Flange:**

**Flange: ASME B16.5, ASME B16.47 A(MSS SP-44),ASME B16.47-B/API 605,AWWA C207**

**Stainless Steel Flange: ASTM A182, ASTM A403,ASTM A815**

**Compact Flange-NORSK-L005,ANSI B 16.5, ASME VIII, API 6A/Q1**

**Swivel Flange:ASTM A694 F42,F46,F48,F50,F52,F56,F60,F65, F70**

**Steel Plate:**

**Pressure Vessel Steel Plate-ASTM A285,ASTM A387,ASTM A516,ASTM A537,ASTM A573,-**

**Stainless Steel Plate-ASTM A240 304,304L,316L,317L,321,310S,409S,410,410S,420, 420J1, 430**

**Clad Metal Plate-ASTM A263,ASTM A264,ASTM A265,ASTM B432**

**Titanium Sheet ASME/ASTM SB/B265 GR.1, GR.2, GR.3, GR.4, GR.5, GR.7-GR12**

**We have successfully completed the following projects:**

**1. MOGE Project,Myanmar**

**(1)9700 metric tons of 273.1x9.93mm API 5L X46 ERW Line Pipe as the first ERW Line Pipe exported to Myanmar (TPI: CCSI)**

**(2)25000 metric tons of 20" API 5L X52 ERW Steel Line Pipe 620,495.43 Ft (117.518 Miles) and with 3 Layer P.E Coating 10,560.00 Ft (2 Miles) as the largest line pipe order to Myanmar (TPI:CCSI)**

**2. Ambatovy Project, Madascar:**

**(1) 38000 metric tons (547,000 meters) of 609.6x7.92-17.48mm 3LPE coated API X70 PSL 2 ERW line pipe as the first and highest ERW line pipe ex-China (TPI: SGS,);**

**(2) 20,000 metric tons of 1016/1219.2x22mm/762x9.53mm API 5L X52 & ASTM A672 Class 70 3LPE coated UOE DSAW/LSAW line pipe(TPI: SGS);**

**(3) 305MT of 24" API 5L X70 PSL 2 Dual Fusion Bonded Epoxy Coated Induction Bends (TPI:SGS) ;**

**3. New Skikda LNG Project, Algeria:**

**(1) 105,000 metric tons of 508x12.7mm/609.6x12.7mm API 5L B PSL1/ASTM A252-II ERW/ spiral welded steel pipe as one of the biggest line pipe order ex-China (TPI: Moody International);**

**4. Australia Energy Project**

**(1) 945 Metric Tons of 38.1-762 ASTM A106 B, ASTM A210 C,ASTM A213 T11, ASTM A335 P11/P22 Boiler Tube & Pipe(TPI: BV);**



## **5. LNG Project Papua New Guinea**

**(1) 1580.838 Metric Tons of API 5L X52 PSL2 609.6x15.9mm & 229.514 Metric Tons of 406.4x9.5mm ERW Line Pipe as the first ERW Steel Pipe exported to PNG.**

## **6. Water Pipeline Project, Egypt**

**(1) 784.521 metric tons of API 5L GR.B/ASTM A53 GR.B 457.2-1016mm Spiral Welded Carbon Steel Pipe**

## **7. Ambarli Project, Turkey**

**(1) 1200 metric tons of 38.0x2.6-5.0x19650mm ASME SA213 T11/T22 Boiler Tube as one of the biggest boiler tube order ex-China(TPI: Moody International);**

## **8. QCLNG Pipeline Project**

**(1) as Baosteel's agent, supplied 207,000 metric tons of 42" API 5L X70 PSL 2/AS 2885-1/AS3862 UOE DSAW DFBE coated line pipe for QGC LNG Pipeline Project in Australia as the first line pipe produced according to Australian Standard AS2885-1 (TPI:ITI);**

**(2) 755MT of 1067mm API 5L X70 PSL 2 Induction Bends(TPI: TGRC);**

## **9. Lilydale LNG Project, Australia**

**(1) 735 metric tons of 323.9x7/13.5mm API 5L X56, AS 2885-1, AS3862 HF-ERW Dual FBE coated line pipe(TPI: Moody International);**

## **10. Jebel Ali Refinery Plant Project**

**(1) 1860 metric tons of 21.3-457.2mm API 5L X52 PSL 2 Seamless Line Pipe(TPI: Moody International);**

## **11. Santos Gladstone LNG Upstream Project, Australia**

**(1) 2960 metric tons of 21.3-914.4mm ASTM A106 B/API 5L Grade B PSL 2 Seamless Pipe+DSAW Pipe with Charpy V-Notch Test at -29°C for  $\geq 12.7$ mm W.T.(TPI: BV)**

## **12. Casing Pipe**

**(1) 4000 ft (170.554 metric Tons of 20"x94ppf, API 5CT H40, STC ERW Casing as the first casing exported to Ecuador;**

**(2) 535 metric tons of 2 7/8" API 5CT J55 & 13 3/8" API 5CT N80 Seamless casing as the first casing exported to New Zealand (TPI:SGS);**

**(2) 2472.93 metric tons of 4 1/2"-9 5/8" API 5CT K55 BTC Seamless Casing Pipe to Australia;**

## **13. Highland Valley Copper Mill Optimization Project**

**1) Supply 4400 meters of API 5L B+CSA Z245.21-10 2LPE coated 42"x0.375" LSAW Line Pipe to Canada.**



## **14. Yallourn Project, Australia**

**1) Supply 3155.36 meters of API 5L X52M+AS 3862 406 micron external FBE+AWWA C210 400 micron internal Liquid Epoxy coated 323.9x6.4mm ERW Line Pipe**

**2) Supply 519.2 meters of API 5L Gr. B+AS 3862 406 micron external FBE+AWWA C210 400 micron internal Liquid Epoxy coated 609.6x8mm & 762.0x8mm SSAW Line Pipe**

## **15. Pressure Vessel Plate**

**(1) 3760 metric tons of 1500x10x6096mm/1800x12x6096mm/1829x20x6096mm ASTM A283 C to Bangladesh(TPI: SGS)**

**(2) 2441.7 metric tons of 1500x24x12000mm ASTM A283 C to Middle East.**

## **Inspection & Approval Certificates :**

**Mill Test Certificate, C/W Certificate (Calibration Works Certificate) EN 10204 3.1, DIN 50049 3.1, ISO 10474 3.1, NACE MR-0103 / NACE MR-0175 / ISO 15156, PED-97/23/EC, AD-2000-WO, with 3.2 certificate duly Certified & Approved by LRS, GL, BV, DNV, ABS, SGS, TUV, RINA, IRS, NORSOK, NATA, CNAS, etc.**

## **Our Mission**

**Whether our customers are active in the oil and gas, water supply line or construction, we endeavor to deliver the highest quality products and value-added services that improve our customers' business efficiency.**

**We help our clients make more money by bringing companies together and creating win-win partnerships.**

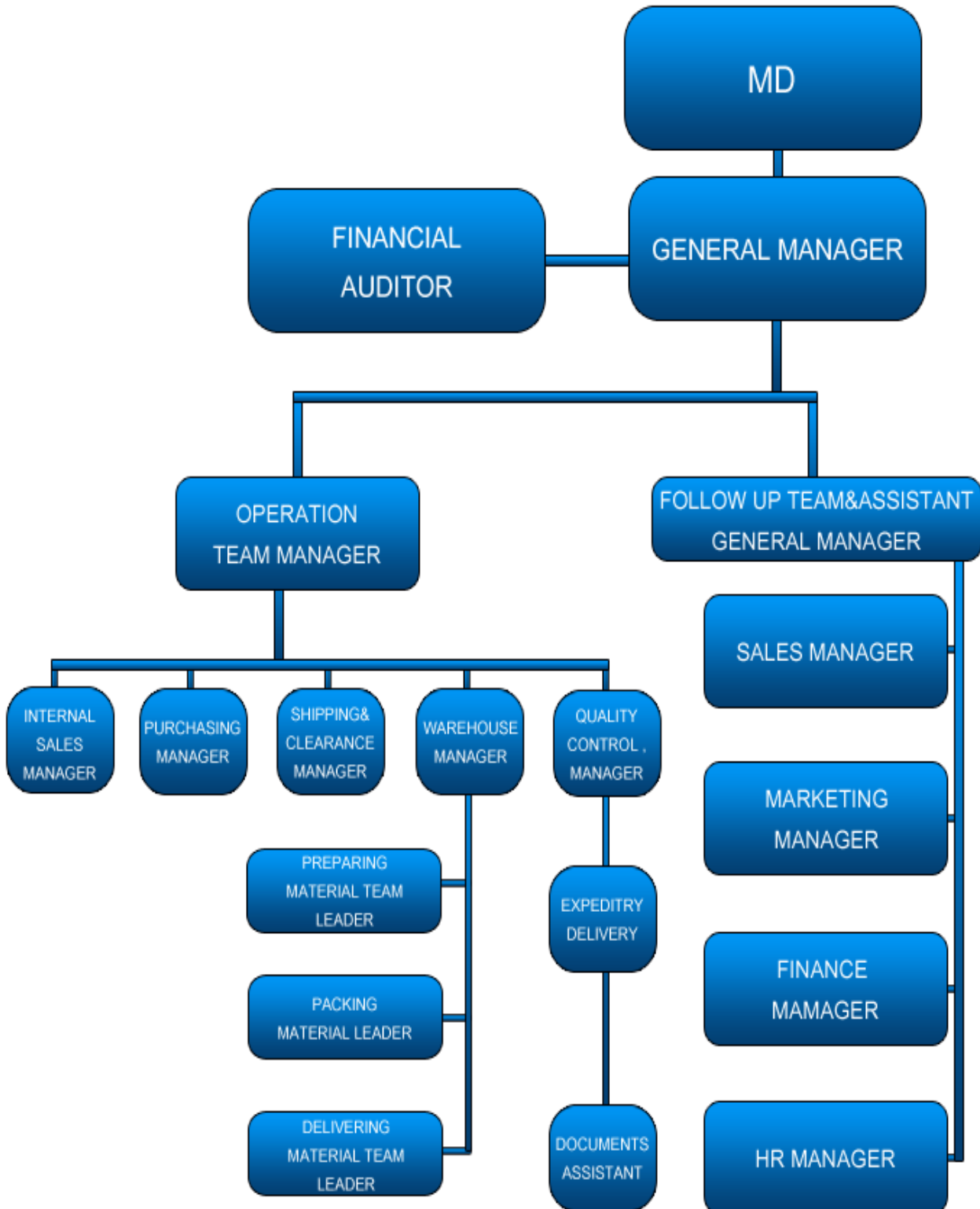
**We take care of everything so our clients can remain focused on their business.**

**We understand the system and put it to work to the advantage of our clients.**

**We are an insider in the pipe and tube manufacturing industry and therefore are in a position that allows our clients to have an insider working for them.**



## Organization Chart





## Association Membership Certificate



This is to certify that

**Angbai Trading** A Subsidiary of Metals International Limited

is a Corporate Member of the

**Australian Pipeline Industry Association Ltd.**

and is entitled to the rights and privileges of membership  
subject to the Constitution of the Association

PRESIDENT

SECRETARY

Certificate Number  
Date of Admission

2143  
14 October 2012





**Deep Foundations Institute  
Corporate Member:**

**METALS INTERNATIONAL LIMITED**

**Member Since 2012**

*Dedicated to Quality and Economy in the Design and  
Construction of Deep Foundations and Excavations*



This Certifies that

**Angbai Trading Co., LTD**

In acceptance of the Vision and Mission of the PDCA  
and  
Demonstrating the highest levels of professionalism  
and  
Having been duly recognized by the Board of Directors  
In accordance with the By-Laws of the Association  
Is hereby granted the status of  
Member in Good Standing

**A DRIVEN PILE IS A TESTED PILE!**



## Welded Carbon Steel Pipe



**ERW**



**DSAW/LSAW**

Type	Process	O.D.	Specification /Grade
Line Pipe	ERW	50.8-660.4mm (2"-26")	API 5L PSL 1 & PSL 2, ISO 3183.1, 2 & 3, AS 2885-1, DNV OS-F101 -L175/A25, L210/A, L245/B, L290/X42, L310/X46, L360/X52, L390/X56, L420/X60, L450/X65, L485/X70, L555/X80 -For Non-Sour Service-L245NC, L290NC, L360NC, L290QC, L360QC, L415QC, L450QC, L485QC, L555QC, L290MC, L360MC, L415MC, L450MC , L485MC, L555MC. -For Sour Service-L245NCS, L290NCS, L360NCS, L290QCS, L360QCS, L415QCS, L450QCS, L290MCS, L360MCS, L415MCS, L450MCS, L485MCS. CAN/CSA Z245.1-02-241, 290, 359, 386, 414, 448, 486, 550, 620, 690 AWWA C200-ASTM A570 Gr. 30, 33, 36, 40, 45, 50, 55 AS /N/ZS 1163-C250/L0, C350/L0, C450/L0, C500/L0, C600/L0
	DSAW/LSAW (UOE/JCOE)	406.4-1422mm (16"-56")	
	Spiral Welded	219.1-2032mm (8-5/8"-80")	
Pressure Pipe	EFW	406.4-1422mm (16"-56")	ASTM A671-Class 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33, 40, 41, 42, 43, 50, 51, 52, 53, 60, 61, 62, 65, 70, 71, 72, 73 ASTM A672- Class 10, 11, 12, 13, 20, 21, 22, 23, 30, 31, 32, 33, 40, 41, 42, 43, 50, 51, 52, 53
Standard Pipe	ERW	21.3-660.4mm (1/2"-26")	ASTM A53 A/ASTM A134/ASTM A135/ASTM A139/ASTMA214/ASTM A252/ASTM A500/ASTM A513/ASTM A519 AS 1074/AS 1163/AS 1579/AS2556/ BS EN 10296/BS EN 10217/BS EN10219/DIN 1626/DIN 1628/DIN 17172 GOST 10704 API 2B, API 2H UL 795, UL 797, UL 1242, UL 6
	DSAW/LSAW (UOE/JCOE)	406.4-1422mm (16"-56")	
	Spiral Welded	219.1-3600mm (8-5/8"-140")	



**Extra Long SSAW**



**Flanged HSAW**



## Seamless Carbon Steel Pipe



**Low-Medium-High Pressure Tube**



**Alloy Tube**

Type	O.D.xW/T	Specification
Line Pipe	$\phi$ 6-1219.2× 1.5-40mm	API 5L PSL 1 & PSL 2, ISO 3183.1,2 & 3, AS 2885-1, DNV OS-F101 -L175/A25,L210/A,L245/B,L290/X42,L310/X46,L360/X52,L390/X56, L420/X60,L450/X65, L485/X70,L555/X80 -For Non-Sour Service-L245NC,L290NC,L360NC,L290QC,L360QC, L415QC,L450QC,L485QC,L555QC,L290MC,L360MC,L415MC,L450MC,L485MC, L555MC. -For Sour Service-L245NCS,L290NCS,L360NCS,L290QCS,L360QCS, L415QCS,L450QCS,L290MCS,L360MCS,L415MCS,L450MCS, L485MCS. CAN/CSA Z245.1-02-241,290,359,386,414,448,486,550,620,690
Pressure, Boiler, Superheat er and Heat Exchanger Tube	$\phi$ 10-1473×1 .2-125mm	ASTM A106 B & C, ASTM A53 A & B ASTM A179/SA 179/M, ASTM A199 A,B,C, ASTM A209T1/T1a/T1b, ASTM A210/M A1,C ASTM A213/A213M ,ASME SA213/SA213M-T5,T9,T11,T12,T22,T23,T91,T92 ASTM A333 Gr1, Gr.3,Gr.6 ASTM A334 I & III ASTM A335/A335M P11/P12/P22/P5/P9/P91 BS 3059-1 & 2 320/360/440/243,620-440,622-490,S1,S2,TC1,TC2 DIN 17175 ST35.8,ST45.8,17Mn4,15Mo3,13CrMo44 EN 10216-1 P195TR1/TR2,P235TR1/TR2,P265 TR1/TR2, EN 10216-2 195GH,P235GH,P265GH,10CrMo5-5, 13CrMo 4-5, 11CrMo9-10,X11CrMo5+1, TC1,TC2 JIS G3461 STB 340,STB 410,STB 510/STB A12/STB A22



**Heat Exchanger Tube**



**Condenser Tube**



## Anti-Corrosion Coating



**FBE**



**3LPE**

<b>External Coating</b>	<b>Epoxy</b>	CSA-Z245. 20, AWWA C210,AWWA C-213,NFA 49-709, AS 3862,EN 10289, IS2006/,GB3/CW6,BP GIS 06-402
	<b>Polyethylene</b>	CSA-Z245. 21, DIN 30670,NFA 49-710,ISO 21809-1, IPS-G-TP-335, IGS-TP-010-2, DNV-RP-F106,BP GIS 06-403
	<b>Polypropylene</b>	DIN 30678,NFA 49-711, ISO21809-1,DNV-RP-F106, BP GIS 06-403
	<b>Bitumen</b>	DIN 30673,BS 534,BS4147,AWWA C203,TS4536
	<b>Coal-tar Enamel</b>	BS4164, ANSI/AWWA C203,ISO 5256,SY/T0379
<b>Lining Coating</b>	<b>Epoxy</b>	AWWA C210,AWWA C-213,NFA 49709,TS EN 10289,API RP 5L2
	<b>Bitumen</b>	DIN 30673,AWW C203
	<b>Cement Mortar</b>	AWWA C-205, BS 534
<b>Concrete Weighted Coating</b>	<b>CWC</b>	NAPCA Bulletin 18-99,DNV OS-F-101



**3LPP**



**CWC**



## Oil Country Tubular Goods



Casing



Oil Tubing

Type	Process	O.D.	Specification/Grade
Casing Pipe	BTC,LTC,STC,HCS,SuperMax	114.3-508.0mm (4"-20")	API 5CT J55,K55,N80,L80,Q95,P110,Q125
Oil Tubing	BTC,LTC,STC,HCS,SuperMax	60.3-139.7mm (2 3/8"-5 1/2")	API 5CT J55,K55,N80,L80,Q95,P110,Q125
Drilling Rods	EU/IU		
Integral Heavy Weight Drill Rods	EU/IU	114.3-168.3mm (4 1/2-6 5/8")	API 5D E75,X95,G105,S135
Drilling Collar	AISI 4145 modified chromium-molybdenum alloy	79.14-279.4mm (3 1/8-11")	API 7 NC23-31 ,NC26-35, NC31-41, NC35-47, NC38-50, NC44-60, NC44-60, NC44-62, NC46-62, ,NC46-65, NC46-65, NC46-67, NC50-67, NC50-70, NC50-70, NC50-72 NC50-72, NC56-77, NC56-80, 6 5/8REG, NC61-90, 7 5/8REG, NC70-97, NC70-100, 8 5/8REG
Non-magnetic Drill Collars	low carbon stainless	79.14-279.4mm (3 1/8-11")	
Spiral Drill Collars	4145H modified chromium-molybdenum alloy	98.4-279.4mm (3 7/8-11")	
Square Kelly	AISI 4145H	60.3-114.3mm (2 1/2-4 1/2")	API 7 6 5/8 REG 4 1/2 REG



Drill Pipe



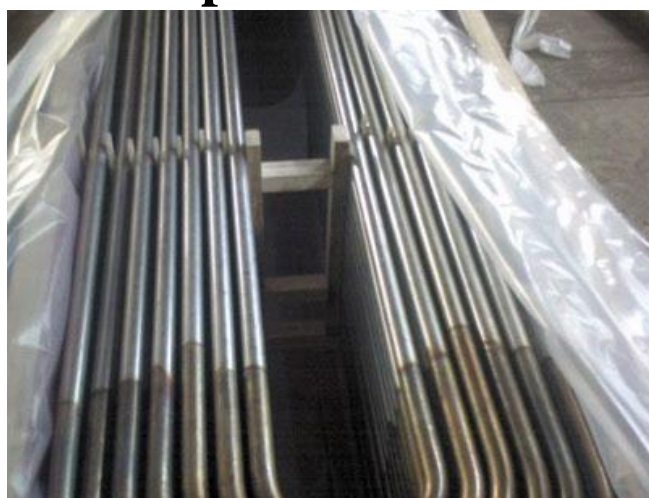
Drilling Rods



## Stainless Steel Pipe



**Stainless Tube**



**U-Tube**

Type	O.D.	Specification	Grade
Seamless Pipe	6-1200mm	ASTM A213/ASME SA213, ASTM A312/A312M, EN 10216-5, ASTMA688/A688M	TP304/TP304L/TP304H/TP309/TP309S/TP310/TP310S/TP316H/TP316/TP316L/TP316Ti/TP317 / TP321/TP321H/TP347/TP347H/904L TP405/TP409/TP410/TP420/TP430/TP443/TP446,SUPER304H(S30432)/TP347HFG/HR3C
		DIN 17458	1.4301/1.4307/1.4948/1.4833/1.4841/1.4335/1.4845/1.4401/1.4404/1.4571/1.4438/1.4541/1.4878/1.4550/1.4539
		DIN 17456	1.4002/1.4006/1.4021/1.4016/1.4749
Welded Pipe	10-2800mm	ASTM A249/M, ASTM A269/M, ASTM A270/M, ASTM A312/M, ASTM A358/A358M, EN 10296-2, EN 10217-7	TP304/TP304L/TP304H/TP309/TP309S/TP310/TP310S/TP316H/TP316/TP316L/TP316Ti/TP317 / TP321/TP321H/TP347/TP347H/904L TP405/TP409/TP410/TP420/TP430/TP443/TP446
Duplex Stainless Steel Pipe	6-1219.2mm	ASTM A789/A789M, ASTM A790/A790M	S31803/S32205/S32750/S32760 1.4462/1.4410/1.4501
Square/Rectangular Pipe	10x10-60x60mm/10x20-40x60mm	ASTM A554/DIN 2463/JIS G3468	201/202/304/304L/316/316L/317/321
			1.4372/1.4373/1.4301/1.4307/1.4401/1.4404/1.4438/1.4541
Mechanical Tubing	6-323.9mm	ASTM A511/A511M/ASTM A554/EN10296-5	MT304/MT304L/MT309S/MT310S/MT316/MT316L/MT317/MT321/MT347, MT405/MT410/MT430/MT443/MT446
			1.4301/1.4307/1.4948/1.4833/1.4845/1.4401/1.4404/1.4438/1.4541/1.4878/1.4550/1.4539
			1.4002/1.4006/1.4021/1.4016/1.4749
CRA Line Pipe	25.4-1066.6 mm (1"-42")	API 5LC	LC30-1812/LC52-1200/LC65-2205/LC65-2506/LC30-2242
CRA Clad or Lined Steel Pipe	25.4-1066.6 mm (1"-42")	API 5LD	X42, X46, X52, X56, X60, X65, X70, X80 LC1812/LC2205/2506/LC2242/LC2262/Monel 400/Inconel 625/Incoloy 825
Evaporator Tubes	6-508mm	ASTM B163/B167, ASTM B423, ASTM B704/705, ASTM B575	Hastelloy C-276/C-22/C-4/B-2/B, Monel 400/Inconel 600/601/625, Incoloy 800/800H/800HT/825



## Ductile Iron Pipe



Pressure Class	Size	Specification/Grade
150	Φ762-1626mm(30-64")	ANSI/AWWA C104/A21.4/ANSI/AWWA C105/A21.5
200	φ610-1626mm(24-64")	ANSI/AWWA C110/A21.10/ANSI/AWWA C111/A21.11
250	φ356-1626mm(14-64")	ANSI/AWWA C115/A21.15/ANSI/AWWA C116/A21.16
300	φ356-1626mm(14-64")	ANSI/AWWA C150/A21.50/ANSI/AWWA C151/A21.51
350	Φ88.9-1626mm(3-64")	ANSI/AWWA C153/A21.53
		ANSI/AWWA C600
		ASTM A674/ASTM A716/ASTM A746
T-Type Joint	Φ118-1668mm(4-64")	ISO2531,EN 548,EN598,AS 2280 K9,K10,K12
K Type joint	Φ118-2702mm(4-106")	ISO2531,EN 548,EN598,AS 2280,ISO4633 K9,K10,K12







## Pipe Fittings

### (1) Forged fitting & Self reinforced outlets



Elbows, tees, crosses, couplings, half couplings, plugs, caps, bushings, unions, reducing inserts, hexagonal, straight and swage nipples with socket weld or threaded ends, butt weld outlets, socket outlets, threaded outlets, elbow, nipple and lateral outlets according to ASTM, ASME, UNI, DIN, ANSI, MSS SP standards.

Material used: carbon steel, alloy steel, austenitic and austenitic-ferritic steels, titanium.

Main material codes and main dimensional standards applied: ASTM A 105, A 181, A 182, A 350, A 694.

Steel grades: F5, F9, F11, F22, F304, F304L, F316, F316L, F321, F44, F51, F42, F52, F60, F65, UNS N08800, UNS N08825, UNS N08925, UNS C70600.

Dimensions according to ANSI B16.11, BS3799. For self reinforced outlets design calculations are carried out according to ANSI/ASME B31.1 or other Client specifications



## (2) Butt weld fittings



Induction Bends



Elbows

**Seamless:** Elbows and bends, short and long radius, bends (made by cold forming, hot forming in dies or by hot induction method), tees, caps and reducers up to 36" diameter according to ASTM, ASME, MSS SP 75, UNI, DIN, ANSI Standards.

**Welded:** Elbows and bends, short and long radius, tees and reducers up to 72 inch diameter, bends (made by hot induction method up to 48 inch diameter). Larger diameters can be produced in mitered execution.

**Type of materials supplied:** carbon steel, alloy steel, austenitic steel, ferritic-austenitic steel, titanium, copper, monel, inconel, hastelloy, incoloy.

**Main material codes and main dimensional standards applied:** ASTM A 234, A 403, A 420, A 815, B 363, B 366.

**Steel grades:** WPB, WPL6, WP11, WP12, WP22, WP 304, 304L, WP316, 316L, WP 321, UNS S31803, UNS S31550, UNS S32750, UNS S32760, UNS S31254, UNS N06600, UNS N08800, UNS N08825, UNS N08925, MSS SP 75 WPHY 42, 52, 56, 60, 65.

**Dimensions acc.** ANSI B16.9, ANSIB16.28, MSS SP 43, MSS SP 75.



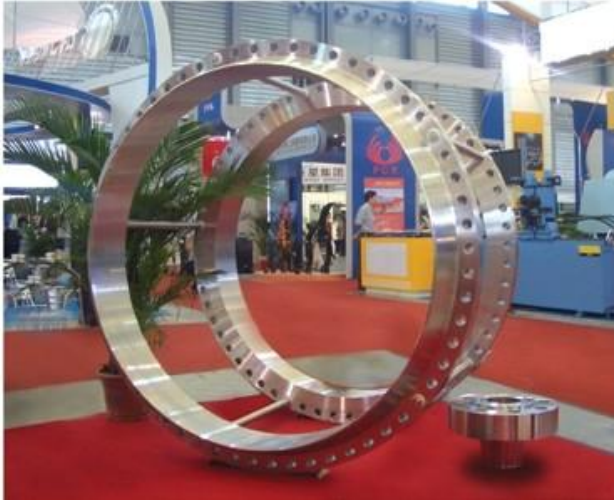
Cap



Tees



## (3) Flanges



Welding neck, slip-on welding, screwed, lapped, socket welding, blind, reducing, orifice, anchor, compact and swivel ring type up to 78" according to ASTM, ASME, API, BS, UNI, DIN, ANSI, MSS SP 44, AWWA, TEMA.

Material used: carbon steel, alloy steel, austenitic and austenitic-ferritic steels, titanium.

Main material and dimensional standards applied: ASTM A105, A181, A182, A350, A694, B381.

Steel Grades: F5, F9, F11, F22, F304, F304L, F316, F316L, F321, F44, F51, F42, F52, F60, F65, UNS N08800, UNS N08825, UNS N08925, UNS C70600, F2.

Dimensions acc. to ANSI B16.25, ANSI B16.36, ANSI B16.1, API 605, API 6A, MSS SP 44, BS 3293, AWWA C207-55, ASME B16.47.

Others : long welding neck, buttered flanges, weld overlaid flanges, spectacle blinds, blind and spacers, drip rings, stub ends, orifice plates, tube sheets, girth flanges, pieces according to client drawings or different international standards.etc. according to client drawings or different international standards.



## (4) Valves



Globe, solid wedge gate, ball, butterfly, swing check, plug valves, manually or gear operated; with or without actuators and control panels.

Valves can be supplied in carbon steel, alloy steel, stainless steel and other alloys.

The main codes applied are API 6A, ANSI B16.5 or ASME B16.47 for flanged ends ANSI B16.34, API 600, API 6D, BS 5351



## Reference List

No.	Pipe Type	Specification	Grade	Size	W/T	Qty	Client/TPI	Destination	Delivery Time
1	HSAW/SSAW Pipe	API-5L	B	52/72"	18/20mm	1500MT		Oman	2005
2	ERW Pipe	API-5L	X42	10"	9.53mm	528,000 feet	MOGE/CCSI	Myanmar	2005
3	ERW Pipe	API-5L	X46	20"	10.31/14.30mm	631,055.43 feet	MOGE/CCSI	Myanmar	2005-2006
4	SHS/RHS	DIN 10219	S 355	100x100-400x400	8-16mm	2500MT		Singapore	2006
5	SHS/RHS	DIN 10219	S 355	100x100-400x400	8-16mm	3500MT		Australia/	2006
6	ERW Pipe	API-5L	B/X42	4"-24"	5.8-12.7mm	23000MT		USA	2006
7	ERW Pipe	API-5L	B/X42/X52	4"-24"	3.5-15.9mm	8000MT		Australia	2006
8	ERW Pipe	API-5L	B/X42	4"-24"	5.8-12.7mm	12000MT		USA	2007
9	ERW Pipe	API-5L	B/X42/X52	4"-24"	3.5-12.7mm	5000MT		Australia/NZ	2007
10	SHS/RHS	ASTM A252 /AS1579	S 355	100x100-400x400	8-16mm	2500MT		Australia/NZ	2007
11	Carbon Seamless Pipe	ASTM A106	B	1/2-12"	1.6-28mm	5600MT		Australia/NZ	2007
12	ERW+3LPE Coated Line Pipe	API-5L	X70	24"	7.92-15.88mm	224,970.00 Meters	SNC-Lavalin/SGS	Madagascar	2007-2008
13	LSAW+3 P.E.Coated Line Pipe	API-5L	X52	40/48"	22mm	114,781MT	SNC-Lavalin/SGS	Madagascar	2007-2008
14	Induction Bends	API-5L	X70	24"	7.92-17.27mm	177MT	SNC-Lavalin/SGS	Madagascar	2007-2008
15	ERW Pipe	API-5L	B	1/2-24"	2.0-17.27mm	2800MT		Columbia	2007
16	ERW/HSAW Pipe	API 5L	B	20"/24"	9.53/12.7mm	542,472.00 meters	KBR/Moody	Algeria	2008-2009
17	ERW +BTC Casing Pipe	API 5CT	J-55	20"	11.13mm	1400MT		Canada	2008
18	LSAW Pipe	API 5L	B	30"/36"	9.53mm	1600MT		Canada	2008
19	LSAW Pipe	API 5L	X52	30"/36"	9.53/12.7mm	1200MT		Australia	2008
20	LSAW Pipe	ASTM A672	70	28"	9.53/12.7mm	2500MT	SNC-Lavalin/SGS	Madagascar	2008
21	ERW Line Pipe	API 5L	A/B	3/4"-24"	Sch. 40	1823MT		Saudi Arabia	2008
22	ERW+STC Casing Pipe	API 5CT	H-40	20"	11.13mm	4000ft	Petroproduccion	Ecuador	2008



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23	SSAW Pipe	API 5L	B	10"-48"	Sch.10/30/40	5200MT		Australia/NZ	2008
24	SHS	EN10210	S355	300x300mm	12.7mm	650MT		UAE	2008
25	Carbon Seamless Pipe	ASTM	A210 A1/213 T22	38.1*4.191*1384 5		500MT	SGS	Thailand	2008
26	Carbon Seamless Pipe	ASTM	A106 B	508/610mm	9.52mm	400MT	BV	Australia	2008
27	Carbon Seamless Pipe	ASTM	A335 P11/P22/ASTM A106 C	219.1-610mm	8.18-26.19mm	760MT	SGS	Australia	2009
28	Carbon Seamless Pipe	ASTM	A106B/API 5LB	323.9-406.4	9.52mm	200MT	BV	Australia	2009
29	Carbon Seamless Pipe	ASTM	A106 C/API 5LB	610mm	50mm	658MT		Singapore	2009
30	Carbon Seamless Pipe	ASTM	213 T22	152.4mm	7.94mm	250MT		Singapore	2009
31	Carbon Seamless Pipe	ASTM/ASME/A PI 5L/NACE MR-0175	B/106B	1/2-24"	2.6-19.05mm	3258MT		Australia	2009
32	Carbon Seamless Pipe	JIS G3461 STB35S-C	B	21.3-141.3mm	2.8-6.6mm	528MT		Sri Lanka	2009
33	Carbon Seamless Pipe	BS1387	Extra A	21.3-219.1mm	1.8-7.11mm	1980MT	BV	Guinea	2009
34	Shouldered HDG Pipe	BS1387/AS 1163	Extra A	60.3-165.1mm	2.0-2.75mm	785MT		Australia	2009
35	Steel Plate	ASTM A283	C	6096*1500mm	5-20mm	3750MT	SGS	Bangladesh	2009
36	Boiler Tube	ASTM SA213/SA268	T11/T22/TP410	38mm	2.6-5.0mm	1225MT	Moody	Turkey	2009
37	ERW Line Pipe	API 5L/AS 1163	B/G350	73-610	2.37-12.7mm	1895MT		Australia	2009
38	Steel Plate	ASTM A283	C	12000*1500mm	24mm	2500MT		Iran	2009
39	Casing	API 5CT	J-55/N80	3 1/2-13 3/8"	9.3/61/68ppf	2630MT	SGS	PNG	2009
40	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE M0175	B	1/2-10"	2.17-12.7	1150MT	Shell Approved	Australia	2009
41	ERW Pipe	API 5L	B	18"	9.53	240MT		South Africa	2009
42	Carbon Seamless Pipe	API 5L /ASTM A106	B	1/2-10"	9.27-12.7mm	1025.65MT		USA	2009
43	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE	B	10"	9.27-28.58mm	2000.86MT		Australia	2009



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		M0175							
44	ERW Pipe	API 5L	X52	8"-24"	4.8-6.4mm	2888.31MT		Australia	2009
45	ERW Pipe	API 5L	X52 PSL2	24"	15.9mm	1508.22MT	Velosi	PNG	2010
46	ERW Pipe	API 5L	X52 PSL2	16"	9.5mm	223.189	Velosi	PNG	2010
47	UOE DSAW+DFBE Coated Line Pipe	API 5L/AS 2885.1+AS 3862	X70 PSL2	1067mm	14.1-23.5mm	517,000m	ITI/TGRC	Australia	2010
48	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE M0175	B	10"	9.27-28.58mm	6185.26MT		Australia	2010
49	ERW Pipe	API 5L/AS 1163	B/C350L0	2"-24"	4.8-12.7mm	8068.15MT		Australia	2010
50	Carbon Seamless Pipe	DIN 17175/ASTM A106	B	26.3-273.1mm	2.8-6.6mm	328MT		Sri Lanka	2010
51	ERW Pipe	API 5L	B	2"-24"	4.8-12.7mm	530MT		Vietnam	2010
52	Casing	API 5CT	K55,Perforated, R3 BTC	7"	23ppf	43.052MT	SGS	Australia	2010
53	Galvanised Pipe	AS1074	Roll Grooved/Shouldered	114.3-165.1mm	3.05-5mm	635.234MT		Australia	2010
54	Carbon Seamless Pipe	JIS G3461	STB 410	38.0mm	4.9mm	22.398MT	Velosi	Australia	2010
55	Oxy Lance Tube	ASTM A106	B	13.7mm	2.24mm	23000PCS	Moody	Australia	2010
56	Spiral Welded Pipe	API 5L	C350Mpa	355-1400mm	10-15.9mm	236.340MT		Solomon Islands	2010
57	Spiral Welded Pipe	API 5L/ASTM A53	B	18-40"	12.7mm	778.82MT	SGS	Egypt	2010
58	ERW/SSAW/LSAW	API 5L/AS 1163	X42/C350L0	237.1-914.4mm	6.4-12.7mm	2141.70MT		Australia	2010
59	Carbon Steel Flange	ASME B16.47 /B	ASME SA105N	36"	Sch.20	2 pcs		Singapore	2010
60	Stainless Steel Flange	ASME B16.48 /B	ASME SA182 304I	36"	Sch.20	pcs		Singapore	2010
61	Induction Bends	API 5L	X70 PSL2	1067mm	21mm	668MT	QGC/TGRC	Australia	2010
62	Stainless/Carbon SMLS Pipe/Fitting	ASTM A312/API 5L	304/B	26.3-273.1mm		238MT	BV	Italy	2010
63	ERW Pipe	API 5L/AS 1163	B/C350L0	2"-24"	5.-6.25mm	5805.63MT		Australia	2011
64	Seamless Stainless tube	ASTM A312	TP347H	355.6mm	19.05mm	1200M		Iran	2011
65	HFW+DFBE Coated Pipe	API 5L PSL 2/AS	X56	323.9	7/13.5	720	Jemena/Moody	Australia	2011



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		2885.1+AS3862							
66	Carbon Seamless Pipe	API 5L PSL 2	X52	33.4-457.2mm	4.55-25.4mm	1859.739MT	BV	UAE	2011
67	Carbon Seamless Pipe	API 5L/ASTM A106	B	114.3mm	6.02mm	3547.6MT		Indonesia	2011
68	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE M0175	B	1/2-8"	2.6-19.05mm	1658MT		Australia	2011
69	Roll Grooved HDG Pipe	API 5L	X42	114.3mm	6.02	80.401	MIL	New Zealand	2011
70	ERW Pipe	API 5L/ASTM A53/AS1163	B/X42/C350L0	60.3-609.6	3.91-12.7m	1849MT	MIL	Australia	2011
71	Seamless+LSAW	ASTAM A106/API 5L PSL2	B	21.3-914mm	3.73-50.1mm	1922.319MT	MIL	Australia	2011
72	Elbow	ASME B16.9	API 5L Gr.B	4" 6"	Sch40	200pcs	MIL	Indonesia	2011
73	LSAW Pipe	API 5L	X52	812.8-914.4mm	9.52-12.7mm	2715.7MT	MIL	Australia	2011
74	Galvanised ERW Pipe	API 5L	X42	114.3mm	6.02mm	804.07MT	MIL	Australia	2011
75	CS SMLS PIPE	ASTM A106B	X42	17.1mm-60.3m m	2.31-8.74mm	1200pcs	MIL	Qatar	2011
76	Carbon Seamless	API 5L	B	33.4-114.3mm	3.38-6.02mm	1425pcs	MIL	Sri Lanka	2011
77	LSAW Pipe	API 5L	X52	660-1219mm	9.52-12.7mm	310.56MT	MIL	Australia	2012
78	Seamless+LSAW	ASTAM A106/API 5L PSL2	B	21.3-914mm	3.73-50.1mm	1037MT	Fluor	Australia	2012
79	ERW Pipe	API 5L/ASTM A53/AS1163	B/X42/C350L0	60.3-609.6	3.91-12.7m	1000MT	MIL	Australia	2012
80	Carbon Seamless	API 5L /ASTM A106 /NACE M0175	B	1/2-8"	2.6-19.05mm	400MT	MIL	Australia	2012
81	Seamless+LSAW+Stainless Tube	ASME B36.10	CS API 5L Gr. B/ TP316L	21.3-914mm	3.73-50.1mm	300MT	MIL	Canada	2012
82	SSAW Pipe	API 5L Gr. B PSL 1/ASTM A252 Gr. 3	X52	355.6-457mm	9.53mm	535MT	MIL	Australia	2012
83	Casing Pipe	API SPEC 5B&5CT	K55	114.3-273.1mm	6.35-8.94mm	2475.42MT	Origin Energy	Australia	2012
84	Boiler Tube	ASME SA213, ASME SA210	T11/T22/TP410	38.1mm	2.8-3.4mm	157.704MT	BV	Korea	2012





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85	ERW Pipe	API 5L/AS 1163	X42/C350L0	323.9-610mm	6.4mm	222MT	MIL	Australia	2012
86	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE M0175	B	1/2-8"	2.6-19.05mm	550MT	MIL	Australia	2012
87	ERW Pipe	API 5L/AS 1163	X42/C350L0	21.3-610mm	2.77-12.7mm	4000MT	MIL	Australia	2012
88	Pipe & Fittings	ASTM A106/ASTM A234/ASME B16.9	GR.B/	114.3mm	6.02	5400meters+ 20pcs	MIL	Sudan	2012
89	ERW Pipe	API 5L	GR.B+3LPE	4"	6.02mm	19.3MT	Total	England	2012
90	Seamless Stainless tube	ASTM A213	TP321/TP304/304L	60.3-168.3mm	2.77-3.4mm	1180meters	MIL/BV	England	2012
91	Seamless Stainless tube	ASTM A213	TP316L	8-9.5mm	0.5-0.7mm	15000meters	MIL	Spain	2012
92	Seamless Stainless Tube	ASTM A213	TP316Ti	60.3	8.74mm	15000kgs	Intek Moody	Ireland	2012
93	Stainless tube/Elbow	ASTM A312/A403	TP316/316L	114.3mm	3.05/6.02	3000meters+ 15pcs	MIL	Sudan	2012
94	Stainless EFW pipe	ASTM A312	TP304	26.7-60.3mm	2.11-3.38	3300meters	MIL	Singapore	2012
95	Seamless Stainless Tube	ASTM A269	TP316/316L	6.35-12.7mm	0.89-1.24mm	800pcs	MIL	Taiwan	2012
96	Seamless Stainless tube	ASTM A213	TP316L/TP321	8-9.5mm	0.5-0.7mm	50000KG	MIL	Spain	2012
97	Seamless Stainless Tube	ASTM A312	TP347H	355.6mm	19.05mm	1200M		Iran	2012
98	Seamless Stainless Tube	ASTM A213	TP316Ti	60.3	10mm	21000kgs	Intek Moody	Ireland	2012
99	Seamless Stainless Tube	ASTM A312	TP304L	48.3-406.4	1.65-4.5mm	13230kgs	MIL	Iran	2012
100	Carbon Seamless Pipe	API 5L /ASTM A106 /NACE M0175	B	1/2-16"	2.17-12.7	560	Shell Approved	Australia	2013
101	Seamless Stainless Tube	ASTM A269	TP316/316L	6.35-12.7mm	0.89-1.65mm	8760m	MIL	Taiwan	2013
102	LSAW Pipe	API 5L	Gr. B	711.2-914.4mm	9.53mm	310.56MT	MIL	Australia	2013
103	Shouldered HDG Line Pipe	API 5L	Gr. B	60.3-165.1mm	2.0-2.75mm	59MT	MIL	Australia	2013
104	LSAW Pipe	API 5L /ASTM A53 /CSA Z245.21	Gr.B+2LPE	1067mm	0.375mm	4400m	Fluor	Canada	2013