



## PERAKUAN PEMATUHAN STANDARD (BAHAN BINAAN)

Adalah dengan ini Pengilang/Pengeluar yang dinyatakan di bawah ini telah mengeluarkan bahan binaan yang diperakui oleh Lembaga mengikut Bahagian VIIA Akta Lembaga Pembangunan Industri Pembinaan Malaysia (Pindaan 2011). Perakuan ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan. Perakuan ini mengesahkan bahawa bahan atau produk binaan yang dinyatakan di bawah telah diperakukan

No. Pendaftaran : 1180423SL0264  
Nama Pengilang / Pengeluar : ALPINE PIPE MANUFACTURING SDN BHD  
Alamat Kilang Berdaftar : LOT 6085, JALAN HAJI ABDUL MANAN, BATU 5 1/2 , OFF  
JALAN MERU ,  
41050  
KLANG  
SELANGOR

**Kategori dan Jenis produk bahan binaan :**  
(Rujuk Lampiran A untuk butiran terperinci)

### **IRON AND STEEL PRODUCTS**

- Carbon Steel Tubes For General Structural Purposes
- Cold Formed Welded Structural Hollow Sections
- Hot Finished Structural Hollow Sections Of Non-Alloy Steels
- Non-Alloy Steel Tubes Suitable For Welding and Threading
- Steel Pipe Fittings For Water and Sewerage
- Steel Pipes For Water And Sewerage
- Steel Tube For Metal Scaffolding
- Steel Tubes

Tarikh Mula Berkuatkuasa : 24-04-2022

Tarikh Tamat Tempoh Perakuan : 23-04-2023

Perakuan ini hendaklah diperbaharui selewat-lewatnya 30 hari sebelum tarikh tamat tempoh perakuan

Nota: Perakuan dikeluarkan setelah Lembaga menjalankan pemeriksaan dan pengesahan ke atas kilang dan produk-produk yang terkandung di dalam Pensijilan Produk (Product Certification) yang dikeluarkan oleh Badan Pensijilan yang diiktiraf. Pihak pengeluar/pengilang adalah bertanggungjawab untuk memastikan Pensijilan Produk (Product Certificate) sentiasa dalam tempoh sahlaku.

**MUHAMAD FAIZ BIN MUSA**  
**PENGURUS**  
**CIDB NEGERI SELANGOR**  
b.p Ketua Eksekutif



**SIJIL INI ADALAH CETAKAN KOMPUTER DAN TIDAK MEMERLUKAN TANDATANGAN**

## SYARAT - SYARAT PERAKUAN PEMATUHAN STANDARD (PPS)

### 1. Syarat-syarat

- a) Perakuan ini tidak boleh dipindah milik.
- b) Lembaga berhak mengenakan apa-apa arahan berkenaan bahan binaan dan standard yang didaftarkan dalam PPS ini dari semasa ke semasa.
- c) Lembaga berhak pada bila-bila masa menjalankan pemeriksaan terhadap mana-mana pihak yang berurusan dengan mana-mana bahan binaan yang terkandung dalam Jadual Keempat.

### 2. Tanggungjawab Pemilik Sijil PPS

- a) Memahami dan mematuhi peruntukan-peruntukan Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994 Akta 520 (Pindaan 2011), peraturan-peraturan yang dibuat di bawahnya dan apa-apa terma, syarat-syarat atau sekatan yang dikenakan oleh Lembaga dari semasa ke semasa.
- b) Tidak boleh berurusan atau mengaku janji untuk berurusan, sama ada secara langsung atau tidak langsung, dengan bahan binaan yang dinyatakan dalam Jadual Keempat, melainkan jika bahan binaan itu telah diperakukan dan memperolehi PPS yang masih sah (belum tamat tempoh).
- c) Memastikan Sijil Produk/ Keputusan Pengujian Penuh yang dikeluarkan oleh Badan Pensijilan yang diiktiraf bagi bahan binaan yang diperakukan dalam perakuan ini sentiasa dalam tempoh sah laku.
- d) Mengemukakan Salinan sijil PPS ini kepada pembeli semasa urusan pembekalan, pemasaran, pemindahan dan penjualan sebagai bukti bahan binaan ini telah diperakui oleh Lembaga.
- e) Sentiasa memberi kerjasama dalam mengemukakan apa-apa maklumat yang dikehendaki oleh Lembaga dari semasa ke semasa.
- f) Memaklumkan kepada Lembaga jika ingin menamatkan, memindahkan atau apa-apa perubahan berkaitan operasi dan lokasi.
- g) Memahami dan bertanggungjawab terhadap produk-produk yang memerlukan pematuhan standard yang berterusan (pembaharuan) terutama yang melibatkan kualiti dan keselamatan kerja-kerja pembinaan, pekerja dan orang awam (Contoh: perancah, konkrit siap bancuh atau lain-lain yang berkaitan)

### 3. Tindakan Atas Perlanggaran Akta 520 CIDB

- a) Lembaga boleh mengambil tindakan pendakwaan mahkamah kepada mana-mana orang yang melanggar mana-mana peruntukan dalam Akta 520 dan apabila disabitkan, didenda tidak kurang daripada sepuluh ribu ringgit (RM10,000) tetapi tidak melebihi lima ratus ribu ringgit (RM500,000).
- b) Lembaga juga boleh mengenakan tindakan tatatertib terhadap mana-mana ketidakpatuhan yang dilakukan seperti berikut:-

Bil	Kesalahan	Hukuman
1	Berurusan dengan PPS yang tamat tempoh	Gantung, Batal PPS atau dikenakan penalti denda tidak lebih RM10,000 atau mana-mana tindakan gantung atau batal dan juga dikenakan penalti denda tidak lebih RM10,000
2	Memalsu atau mengubahsuai sijil PPS, Pensijilan Produk (PC), Keputusan Pengujian Penuh (FTTR) atau apa-apa dokumen berkaitan bagi maksud memperakui bahan binaan tersebut	
3	Melakukan apa-apa ketidakpatuhan terhadap bahan binaan yang diperiksa atau berdasarkan keputusan ujian atau kedua-duanya	
4	Melanggar mana-mana arahan Lembaga, akujanji atau akuan tanggungjawab yang dikeluarkan	
5	Berurusan dengan mana-mana bahan binaan yang tiada di dalam senarai sijil PPS	
6	Walau bagaimanapun bagi PC yang telah digantung, dibatal atau lain-lain tindakan oleh Badan Persijilan (CB)	PPS tersebut akan digantung atau dibatalkan
7	Pemohon membatalkan atau menggantung PPS secara sukarela	

- c) Lembaga tidak akan bertanggungjawab terhadap apa-apa kerugian atau kos-kos yang terlibat hasil dari tindakan ketidakpatuhan yang dilakukan dan ianya merupakan tanggungjawab pengeluar, pengilang atau mana-mana orang yang berurusan sepenuhnya.

**Catatan :** PPS yang telah diputuskan dan dibatalkan oleh Jawatankuasa tatatertib tidak boleh diperbaharui sehingga tempoh maksima 2 tahun. Perlanggaran arahan tersebut dan masih berurusan dengan bahan yang tidak diperakukan akan mengakibatkan pemohon disenarai hitam dari memohon PPS selamanya dan tindakan pendakwaan mahkamah dengan denda maksima RM500,000.

No. Pendaftaran : 1180423SL0264  
 No. Pengilang / Pengeluar : ALPINE PIPE MANUFACTURING SDN BHD

<b>Kategori</b>	<b>Jenis / Saiz</b>	<b>Jenama</b>	<b>Standard</b>
IRON AND STEEL PRODUCTS	Hot Finished Structural Hollow Sections Of Non-Alloy Steels CIRCULAR STRUCTURAL STEEL = S275 / DIAMETER (MM) X THICKNESS (MM) = 60.3X3.5 - 457.0X15.0	ALPINE PIPE	BS EN 10210
	Hot Finished Structural Hollow Sections Of Non-Alloy Steels SQUARE STRUCTURAL STEEL = S275, S355 / SIZE (MM) X THICKNESS (MM) = 50.0X4.0 - 350.0X16.0	ALPINE PIPE	BS EN 10210
	Hot Finished Structural Hollow Sections Of Non-Alloy Steels RECTANGULAR STRUCTURAL STEEL = S275, S355 / HEIGHT (MM) X WIDTH (MM) X THICKNESS (MM) = 50.0X75.0X3.5 - 300.0X400.0X16.0	ALPINE PIPE	BS EN 10210
	Steel Tubes OUTSIDE DIAMETER : 60.3MM - 457MM / NOMINAL PIPE THICKNESS : 2.9MM - 5.0MM / TYPE OF ENDS : BEVELLED ENDS. / STEEL GRADE - STEEL NAME : L275, STEEL NUMBER : 0260	ALPINE PIPE	SPAN TS 21827:PART 2:2013
	Carbon Steel Tubes For General Structural Purposes STK 400, OUTSIDE DIAMETER (OD), OD <= 65 MM	ALPINE PIPE	JIS G 3444:2015
	Carbon Steel Tubes For General Structural Purposes STK 400, OUTSIDE DIAMETER (OD), 65 MM < OD <= 100 MM	ALPINE PIPE	JIS G 3444:2015

Carbon Steel Tubes For General Structural Purposes STK 400, OUTSIDE DIAMETER (OD), 100 MM < OD <= 200 MM	ALPINE PIPE	JIS G 3444:2015
Carbon Steel Tubes For General Structural Purposes STK 500, OUTSIDE DIAMETER (OD), OD <= 65 MM	ALPINE PIPE	JIS G 3444:2015
Carbon Steel Tubes For General Structural Purposes STK 500, OUTSIDE DIAMETER (OD), 100 MM < OD <= 200 MM	ALPINE PIPE	JIS G 3444:2015
Steel Tubes Outside Diameter x Pipe Thickness : 323.9mm x 4.0mm	ALPINE PIPE	SPAN TS 21827:PART 2:2013
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 21.3mm, Wall Thickness = 2.0mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 26.9mm, Wall Thickness = 2.3mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 33.7mm, Wall Thickness = 2.6mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 42.4mm, Wall Thickness = 2.6mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 48.3mm, Wall Thickness = 2.9mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010

Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 60.3mm, Wall Thickness = 2.9mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 76.1mm, Wall Thickness = 3.2mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 88.9mm, Wall Thickness = 3.2mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 114.3mm, Wall Thickness = 3.6mm, Type: L2, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 21.3mm, Wall Thickness = 2.6mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 26.9mm, Wall Thickness = 2.6mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 33.7mm, Wall Thickness = 3.2mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010

Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 42.4mm, Wall Thickness = 3.2mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 48.3mm, Wall Thickness = 3.2mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 60.3mm, Wall Thickness = 3.6mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 76.1mm, Wall Thickness = 3.6mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 88.9mm, Wall Thickness = 4.0mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 114.3mm, Wall Thickness = 4.5mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010
Non-Alloy Steel Tubes Suitable For Welding and Threading Welded Tube : Plain Ends, Specified Outside Diameter = 139.7mm, Wall Thickness = 5.0mm, Type: M, Steel Name: S 195T	ALPINE PIPE	MS 863: 2010

Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
165.1mm, Wall Thickness =  
5.0mm, Type: M, Steel Name: S  
195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
21.3mm, Wall Thickness = 3.2mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
26.9mm, Wall Thickness = 3.2mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
33.7mm, Wall Thickness = 4.0mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
42.4mm, Wall Thickness = 4.0mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
48.3mm, Wall Thickness = 4.0mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
60.3mm, Wall Thickness = 4.5mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
76.1mm, Wall Thickness = 4.5mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
88.9mm, Wall Thickness = 5.0mm,  
Type: H, Steel Name: S 195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
114.3mm, Wall Thickness =  
5.4mm, Type: H, Steel Name: S  
195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
139.7mm, Wall Thickness =  
5.4mm, Type: H, Steel Name: S  
195T

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Non-Alloy Steel Tubes Suitable      ALPINE PIPE      MS 863: 2010  
For Welding and Threading  
Welded Tube : Plain Ends,  
Specified Outside Diameter =  
165.1mm, Wall Thickness =  
5.4mm, Type: H, Steel Name: S  
195T

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Steel Pipes For Water And      ALPINE PIPE      SPAN TS 21827:PART  
Sewerage      1:2013  
Submerged Arc Welded (SAW),  
Steel Name: L275, Outside  
Diameter : 323.9mm , External  
Coating : Bitumen, Internal Lining :  
Concrete Lining

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Steel Pipes For Water And      ALPINE PIPE      SPAN TS 21827:PART  
Sewerage      1:2013  
Submerged Arc Welded (SAW),  
Steel Name: L275, Outside  
Diameter : 406.4mm , External  
Coating : Bitumen, Internal Lining :  
Concrete Lining

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Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter : 457mm , External Coating : Bitumen, Internal Lining : Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter: 355.6 mm, External Coating: Bitumen, Internal Lining: Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter: 1626 mm, External Coating: Bitumen, Internal Lining: Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage SUBMERGED ARC WELDED (SAW), STEEL NAME: L275, OUTSIDE DIAMETER: 610MM, EXTERNAL COATING: BITUMEN, INTERNAL LINING: CONCRETE LINING	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter: 914mm, External Coating: Bitumen, Internal Lining: Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter : 508mm , External Coating : Bitumen, Internal Lining : Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013

Steel Pipes For Water And Sewerage Submerged Arc Welded (SAW), Steel Name: L275, Outside Diameter : 1016mm , External Coating : Bitumen, Internal Lining : Concrete Lining	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Cold Formed Welded Structural Hollow Sections CIRCULAR HOLLOW SECTION Outside Diameter (mm) : 42.4 - 457.0, Thickness (mm) : 2.5 - 16.0, Steel Name : S275 J0H, S275 J2H, S355 J0H, S355 J2H	ALPINE PIPE	MS EN 10219-1:2015,MS EN 10219-2:2015
Cold Formed Welded Structural Hollow Sections RECTANGULAR HOLLOW SECTION Side Dimension (mm) : 20 x 40 - 300 x 400, Thickness (mm) : 2.0 - 16.0, Steel Name : S275 J0H, S275 J2H, S355 J0H, S355 J2H	ALPINE PIPE	MS EN 10219-1:2015,MS EN 10219-2:2015
Cold Formed Welded Structural Hollow Sections SQUARE HOLLOW SECTION Side Dimension (mm) : 40 x 40 - 350 x 350, Thickness (mm) : 2.0 - 16.0, Steel Name : S275 J0H, S275 J2H, S355 J0H, S355 J2H	ALPINE PIPE	MS EN 10219-1:2015,MS EN 10219-2:2015
Steel Tube For Metal Scaffolding METAL SCAFFOLDING - TUBULAR (TUBE AND COUPLER) SCAFFOLD 1) TYPE : TYPE 3 , SPECIFIED OUTSIDE DIAMETER: 48.3MM , SPECIFIED WALL THICKNESS: 3.2MM , STEEL NAME: S235GT	ALPINE PIPE	MS 1462-2-1:2010
Steel Tube For Metal Scaffolding METAL SCAFFOLDING - TUBULAR (TUBE AND COUPLER) SCAFFOLD 1) TYPE : TYPE 4 , SPECIFIED OUTSIDE DIAMETER: 48.3MM , SPECIFIED WALL THICKNESS: 4.0MM , STEEL NAME: S235GT	ALPINE PIPE	MS 1462-2-1:2010

Steel Pipes For Water And Sewerage ELECTRIC WELDED (EW) , STEEL NAME: L275 , OUTSIDE DIAMETER: 114.3 MM , EXTERNAL COATING: BITUMEN , INTERNAL LINING: CONCRETE	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage ELECTRIC WELDED (EW) , STEEL NAME: L275 , OUTSIDE DIAMETER: 168.3MM , EXTERNAL COATING: BITUMEN , INTERNAL LINING: CONCRETE	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage ELECTRIC WELDED (EW) , STEEL NAME: L275 , OUTSIDE DIAMETER: 219.1MM , EXTERNAL COATING: BITUMEN , INTERNAL LINING: CONCRETE	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipes For Water And Sewerage ELECTRIC WELDED (EW) , STEEL NAME: L275 , OUTSIDE DIAMETER: 273 MM , EXTERNAL COATING: BITUMEN , INTERNAL LINING: CONCRETE	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipe Fittings For Water and Sewerage Electric Welded (EW), Type of Fittings : Gusseted Bends, Outside Diameter : 219.1mm, Steel Name: L275, External Coating : Bitumen, Internal Lining : Concrete	ALPINE PIPE	SPAN TS 21827:PART 1:2013
Steel Pipe Fittings For Water and Sewerage Submerged Arc Welded (SAW), Type of Fittings : Tees, Outside Diameter : 323.9mm, Steel Name: L275, External Coating : Bitumen, Internal Lining : Concrete	ALPINE PIPE	SPAN TS 21827:PART 1:2013

Steel Pipe Fittings For Water and Sewerage  
Submerged Arc Welded (SAW),  
Type of Fitting : Tees, Outside  
Diameter : 610mm, Steel Name:  
L275, External Coating : Bitumen,  
Internal Lining : Concrete Lining

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Steel Pipe Fittings For Water and Sewerage  
Submerged Arc Welded (SAW),  
Type of Fittings : Gusseted Bends,  
Outside Diameter : 610mm, Steel  
Name: L275, External Coating :  
Bitumen, Internal Lining : Concrete

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