

LESEN PENSIJILAN BARANGAN

Product Certification Licence



SIRIM

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

NORWARDS INDUSTRIES SDN. BHD.
LOT 5191, JALAN BALAKONG
BATU 13, TAMAN BALAKONG JAYA
43300 BALAKONG
SELANGOR, MALAYSIA



ACB 001

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

DUCTILE IRON FITTINGS FOR WATER SUPPLY

Please refer to detail in the SCHEDULE



sebagai mematuhi keperluan
as complying with

MS 1919 : 2013



Ts. Md. Adha bin Katni @ Rahmat
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.



SIRIM QAS International Sdn. Bhd.
(No. Syarikat 199601037981(410334-X))

1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tel : 603-5544 6000
Emel : cserviceqas@sirim.my

<https://www.sirim-qas.com.my>
<https://www.malaysiancertified.com.my>

Tarikh Mula Pensijilan : 09 February 2018

Certified Since

Sah Sehingga : 31 December 2026

Valid Until

Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.
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Tarikh Dikeluarkan : 25 November 2025

Issue Date

No Siri : 119904

Serial No

SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



SIRIM

Trade Mark : NORWARDS
Model : ALL SOCKET TEE
Rating : PRESSURE RATING : PN25
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 40x40, 50x50, 60x60, 65x65, 80x40, 80x80, 100x40, 100x60, 100x80, 100x100, 125x40, 125x80, 125x100, 125x125, 150x40, 150x80, 150x100, 150x150, 200x40, 200x80, 200x100, 200x150, 200x200, 250x80, 250x100, 250x150, 250x200, 250x250, 300x100, 300x150, 300x200, 300x250 AND 300x300



ACB 001

Trade Mark : NORWARDS
Model : DOUBLE SOCKET TEE WITH FLANGED BRANCH
Rating : PRESSURE RATING : PN25
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 40x40, 50x50, 60x40, 60x60, 65x40, 65x65, 80x40, 80x60, 80x80, 100x40, 100x60, 100x80, 100x100, 125x40, 125x60, 125x80, 125x100, 125x125, 150x40, 150x60, 150x80, 150x100, 150x125, 150x150, 200x40, 200x60, 200x80, 200x100, 200x125, 200x150, 200x200, 250x60, 250x80, 250x100, 250x150, 250x200, 250x250, 300x60, 300x80, 300x100, 300x150, 300x200, 300x250 AND 300x300



Trade Mark : NORWARDS
Model : DOUBLE SOCKET TEE WITH FLANGED BRANCH
Rating : PRESSURE RATING : PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 350x60, 350x80, 350x100, 350x150, 350x200, 350x250, 350x350, 400x80, 400x100, 400x150, 400x200, 400x250, 400x300, 400x400, 450x100, 450x150, 450x200, 450x250, 450x300, 450x400, 450x450, 500x100, 500x200, 500x400, 500x500, 600x200, 600x400 AND 600x600

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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ACB 001



Trade Mark : NORWARDS
Model : DOUBLE SOCKET TEE WITH FLANGED BRANCH
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 700x200, 700x400, 700x700, 800x200, 800x400, 800x600, 800x800, 900x200, 900x400, 900x600, 900x900, 1000x200, 1000x400, 1000x600, 1000x1000, 1100x400, 1100x600, 1200x600, 1200x800, 1200x1000, 1400x600, 1400x800, 1400x1000, 1500x600, 1500x1000, 1600x600, 1600x800, 1600x1000, 1600x1200, 1800x600, 1800x800, 1800x1000, 1800x1200, 2000x600, 2000x1000 AND 2000x1400

Trade Mark : NORWARDS
Model : DOUBLE SOCKET TAPPER
Rating : PRESSURE RATING : PN25
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 50x40, 60x50, 65x50, 80x40, 80x60, 80x65, 100x60, 100x80, 125x60, 125x80, 125x100, 150x80, 150x100, 150x125, 200x100, 200x125, 200x150, 250x125, 250x150, 250x200, 300x150, 300x200 AND 300x250

Trade Mark : NORWARDS
Model : DOUBLE SOCKET TAPPER
Rating : PRESSURE RATING : PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 350x200, 350x250, 350x300, 400x250, 400x300, 400x350, 450x350, 450x400, 500x350, 500x400, 600x400 AND 600x500

Trade Mark : NORWARDS
Model : DOUBLE SOCKET TAPPER
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 700x500, 700x600, 800x600, 800x700, 900x700, 900x800, 1000x800, 1000x900, 1100x1000, 1200x1000, 1400x1200, 1500x1400, 1600x1400, 1800x1600 AND 2000x1800

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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ACB 001



Trade Mark : NORWARDS
Model : ALL FLANGED TEE
Rating : PRESSURE RATING : PN25
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 40x40, 50x50, 60x40, 60x60, 65x65, 80x40, 80x60, 80x80, 100x40, 100x60, 100x80, 100x100, 125x40, 125x60, 125x80, 125x100, 125x125, 150x40, 150x60, 150x80, 150x100, 150x125, 150x150, 200x40, 200x60, 200x80, 200x100, 200x125, 200x150, 200x200, 250x60, 250x80, 250x100, 250x150, 250x200, 250x250, 300x60, 300x80, 300x100, 300x150, 300x200, 300x250 AND 300x300

Trade Mark : NORWARDS
Model : ALL FLANGED TEE
Rating : PRESSURE RATING : PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 350x60, 350x80, 350x100, 350x150, 350x200, 350x250, 350x350, 400x80, 400x100, 400x150, 400x200, 400x250, 400x300, 400x400, 450x100, 450x150, 450x200, 450x250, 450x300, 450x400, 450x450, 500x100, 500x200, 500x400, 500x500, 600x200, 600x400 AND 600x600

Trade Mark : NORWARDS
Model : ALL FLANGED TEE
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 700x200, 700x400, 700x700, 800x200, 800x400, 800x600, 800x800, 900x200, 900x400, 900x600, 900x900, 1000x200, 1000x400, 1000x600, 1000x1000, 1100x400, 1100x600, 1200x600, 1200x800, 1200x1000, 1400x600, 1400x800, 1400x1000, 1500x600, 1500x1000, 1600x600, 1600x800, 1600x1000, 1600x1200, 1800x600, 1800x800, 1800x1000, 1800x1200, 2000x600, 2000x1000 AND 2000x1400

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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ACB 001



Trade Mark	: NORWARDS
Model	: FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND, DOUBLE FLANGED 11.25° BEND
Rating	: PRESSURE RATING : PN25
Type	: INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A
Size	: NOMINAL DIAMETER (mm): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250 AND 300
Trade Mark	: NORWARDS
Model	: FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND AND DOUBLE FLANGED 11.25° BEND.
Rating	: PRESSURE RATING : PN16
Type	: INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A
Size	: NOMINAL DIAMETER (mm): 350, 400, 450, 500 AND 600
Trade Mark	: NORWARDS
Model	: FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND
Rating	: PRESSURE RATING : PN10
Type	: INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A
Size	: NOMINAL DIAMETER (mm): 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000
Trade Mark	: NORWARDS
Model	: DOUBLE FLANGED TAPPER
Rating	: PRESSURE RATING : PN25
Type	: INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A
Size	: NOMINAL DIAMETER (mm): 50x40, 60x50, 65x50, 80x60, 80x65, 100x80, 125x100, 150x125, 200x150, 250x200, AND 300x250

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



Trade Mark : NORWARDS
Model : DOUBLE FLANGED TAPPER
Rating : PRESSURE RATING : PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 350x300, 400x300, 400x350, 450x400, 500x400 AND 600x500



Trade Mark : NORWARDS
Model : DOUBLE FLANGED TAPPER
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 700x600, 800x700, 900x800, 1000x900, 1100x1000, 1200x1000, 1400x1200, 1500x1400, 1600x1400, 1800x1600 AND 2000x1800



Trade Mark : NORWARDS
Model : BLANK FLANGED
Rating : PRESSURE RATING : PN10 AND PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000

Trade Mark : NORWARDS
Model : BLANK FLANGED
Rating : PRESSURE RATING : PN25 AND PN40
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500 AND 600

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NORWARDS INDUSTRIES SDN. BHD.



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Trade Mark : NORWARDS
Model : ALL SOCKET TEE
Rating : PRESSURE RATING : PN16
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 350x80, 350x100, 350x150, 350x200, 350x250, 350x300, 350x350, 400x80, 400x100, 400x150, 400x200, 400x250, 400x300, 400x350, 400x400, 450x80, 450x100, 450x150, 450x200, 450x250, 450x300, 450x350, 450x400, 450x450, 500x80, 500x100, 500x150, 500x200, 500x250, 500x300, 500x350, 500x400, 500x450, 500x500, 600x80, 600x100, 600x150, 600x200, 600x250, 600x300, 600x350, 600x400, 600x450, 600x500, 600x600



ACB 001



Trade Mark : NORWARDS
Model : ALL SOCKET TEE
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 700x80, 700x100, 700x150, 700x200, 700x250, 700x300, 700x350, 700x400, 700x450, 700x500, 700x600, 700x700, 800x80, 800x100, 800x150, 800x200, 800x250, 800x300, 800x350, 800x400, 800x450, 800x500, 800x600, 800x700, 800x800, 900x80, 900x100, 900x150, 900x200, 900x250, 900x300, 900x350, 900x400, 900x450, 900x500, 900x600, 900x700, 900x800, 900x900, 1000x80, 1000x100, 1000x150, 1000x200, 1000x250, 1000x300, 1000x350, 1000x400, 1000x450, 1000x500, 1000x600, 1000x700, 1000x800, 1000x900, 1000x1000, 1100x80, 1100x100, 1100x150, 1100x200, 1100x250, 1100x300, 1100x350, 1100x400, 1100x450, 1100x500, 1100x600, 1100x700, 1100x800, 1100x900, 1100x1000, 1100x1100, 1200x80, 1200x100, 1200x150, 1200x200, 1200x250, 1200x300, 1200x350, 1200x400, 1200x450, 1200x500, 1200x600, 1200x700, 1200x800, 1200x900, 1200x1000, 1200x1100, 1200x1200, 1400x80, 1400x100, 1400x150, 1400x200, 1400x250, 1400x300, 1400x350, 1400x400, 1400x450, 1400x500, 1400x600, 1400x700, 1400x800, 1400x900, 1400x1000, 1400x1100, 1400x1200, 1400x1400, 1400x150, 1400x200, 1400x250, 1400x300, 1400x350, 1400x400, 1400x450, 1400x500, 1400x600, 1400x700, 1400x800, 1400x900, 1400x1000, 1400x1100, 1400x1200, 1400x1400, 1500x80, 1500x100, 1500x150, 1500x200, 1500x250, 1500x300, 1500x350, 1500x400, 1500x450, 1500x500, 1500x600, 1500x700, 1500x800, 1500x900, 1500x1000, 1500x1100, 1500x1200, 1500x1400, 1500x1500, 1600x200, 1600x250, 1600x300, 1600x350, 1600x400, 1600x450, 1600x500, 1600x600.

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



Trade Mark : NORWARDS
Model : ALL SOCKET TEE
Rating : PRESSURE RATING : PN10
Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)
EXTERNAL COATING: BITUMEN SERIES: A
Size : NOMINAL DIAMETER (mm): 1600x800, 1600x1000, 1600x1200, 1600x1400,
1600x1600, 1800x200, 1800x250, 1800x300, 1800x350, 1800x400, 1800x450,
1800x500, 1800x600, 1800x800, 1800x1000, 1800x1200, 1800x1400, 1800x1600,
1800x1800, 2000x200, 2000x250, 2000x300, 2000x350, 2000x400, 2000x450,
2000x500, 2000x600, 2000x800, 2000x1000, 2000x1200, 2000x1400, 2000x1600,
2000x1800, 2000x2000



Factory Name and Location :
XINFENG PIPE FITTINGS CO., LTD.
SME PARK
XIANREND AO ENERGY & CHEMICAL INDUSTRY ZONE
115007 YINGKOU CITY
LIAONING PROVINCE, CHINA

End of page

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SURUHANJAYA PERKHIDMATAN AIR NEGARA

SIJIL PERAKUAN PENDAFTARAN PEMBEKAL

(SUPPLIER REGISTRATION CERTIFICATION)

Adalah dengan ini diperakui bahawa syarikat seperti yang tercatat di bawah telah berdaftar dengan Suruhanjaya Perkhidmatan Air Negara bagi kegunaan industri perkhidmatan air di negeri -negeri Semenanjung Malaysia serta Wilayah Persekutuan Putrajaya dan Labuan sahaja.

(This is to certify that the following company have been registered with Suruhanjaya Perkhidmatan Air Negara to be used in the water services industry in Peninsular Malaysia and Federal Territory of Putrajaya and Labuan only.)

No. Rujukan Pendaftaran (Reference of Registration No.)	:	10/2024/0664/A/W-80
Alamat Syarikat Pembekal (Name and Address of Supplier)	:	NORWARDS INDUSTRIES SDN BHD, LOT 5191, JALAN BALAKONG, TAMAN BALAKONG JAYA, 43300 SRI KEMBANGAN, SELANGOR DARUL EHSAN

MAKLUMAT PRODUK ATAU SISTEM(PARTICULARS OF PRODUCT OR SYSTEM)

Kategori (Category)	:	A - CONVEYANCE OF WATER
Nama Produk atau Sistem (Product or System Name)	:	FITTINGS
Perihal Produk atau Sistem (Product or System Description)	:	Model - Siri: Rujuk perincian model dan spesifikasi di lampiran
Jenama (Brand Name)	:	NORWARDS
Piawai (Standard)	:	MS 1919:2013
Kegunaan (Application)	:	SISTEM BEKALAN AIR
Nama dan Alamat Pembuat (Name and Address of Manufacturer)	:	XINFENG PIPE FITTINGS CO., LTD., SME PARK, XIANREND AO ENERGY & CHEMICAL INDUSTRY ZONE, 115007 YINGKOU CITY, LIAONING PROVINCE,, CHINA
Nama dan Alamat Prinsipal (Name and Address of Principal)	:	NORWARDS INDUSTRIES SDN BHD, LOT 5191, JALAN BALAKONG,, TAMAN BALAKONG JAYA,, 43300, SRI KEMBANGAN, SELANGOR DARUL EHSAN
Sah Sehingga (Valid Until)	:	16 DEC 2027

Sijil yang dikeluarkan adalah tertakluk kepada SYARAT-SYARAT AM (Bahagian A) dan SYARAT-SYARAT KHUSUS (Bahagian B).
(The Certificate issued is subject to the GENERAL CONDITIONS (Section A) and SPECIFIC CONDITIONS (Section B))


.....
(DATO' HJ. AHMAD FAIZAL BIN ABDUL RAHMAN)
KETUA PEGAWAI EKSEKUTIF
Suruhanjaya Perkhidmatan Air Negara (SPAN)

Tarikh Dikeluarkan
(Issue Date) : 04 DEC 2024



BAHAGIAN A : SYARAT-SYARAT AM

1. Kelulusan ini adalah terpakai di Semenanjung Malaysia serta Wilayah Persekutuan Putrajaya dan Labuan sahaja.
2. Pembekal hendaklah:
 - (a) membekalkan pemasangan, peranti atau kelengkapan sepertimana yang telah diluluskan dalam sijil pendaftaran;
 - (b) tempoh yang ditentukan oleh Suruhanjaya;
 - (c) mematuhi peruntukan Akta dan mana-mana perundangan subsidiari yang dibuat di bawah Akta;
 - (d) memastikan pemasangan, peranti atau kelengkapan yang dibekalkan mematuhi sepenuhnya standard yang diiktiraf dan apa-apa standard lain yang dinilai melalui penilaian pematuhan, mengikut mana yang berkenaan, pada setiap masa;
 - (e) memastikan tiada kemerosotan kualiti pemasangan, peranti atau kelengkapan yang dibekalkan; dan
 - (f) mematuhi apa-apa arahan yang dikeluarkan oleh Suruhanjaya dari masa ke semasa.

BAHAGIAN B : SYARAT-SYARAT KHUSUS

NA

LAMPIRAN

No Fail : 10/2024/0664/A/W-80
No. Sijil : SPAN/BPAI/1837-2024
Tarikh : 04 DEC 2024



PERAKUAN PENYENARAIAAN PEMBEKAL

PEMBEKAL : NORWARDS INDUSTRIES SDN BHD
LOT 5191, JALAN BALAKONG,
TAMAN BALAKONG JAYA,
43300 SRI KEMBANGAN,
SELANGOR DARUL EHSAN

PRODUK : FITTINGS

Model-model yang diluluskan oleh SPAN adalah seperti di bawah

No	Model	Series/Rating	Type/Size/Description
1	ALL SOCKET TEE	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40X40, 50X50, 60X60, 65X65, 80X40, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X80, 125X100, 125X125, 150X40, 150X80, 150X100, 150X150, 200X40, 200X80, 200X100, 200X150, 200X200, 250X80, 250X100, 250X150, 250X200, 250X250, 300X100, 300X150, 300X200, 300X250 AND 300X300 / NA
2	DOUBLE SOCKET TEE WITH FLANGED BRANCH	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40X40, 50X50, 60X40, 60X60, 65X40, 65X65, 80X40, 80X60, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X60, 125X80, 125X100, 125X125, 150X40, 150X60, 150X80, 150X100, 150X125, 150X150, 200X40, 200X60, 200X80, 200X100, 200X125, 200X150, 200X200, 250X60, 250X80, 250X100, 250X150, 250X200, 250X250, 300X60, 300X80, 300X100, 300X150, 300X200, 300X250 AND 300X300 / NA
3	DOUBLE SOCKET TEE WITH FLANGED BRANCH	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350X60, 350X80, 350X100, 350X150, 350X200, 350X250, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X400, 450X100, 450X150, 450X200, 450X250, 450X300, 450X400, 450X450, 500X100, 500X200, 500X400, 500X500, 600X200, 600X400 AND 600X600 / NA
4	DOUBLE SOCKET TEE WITH FLANGED BRANCH	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700X200, 700X400, 700X700, 800X200, 800X400, 800X600, 800X800, 900X200, 900X400, 900X600, 900X900, 1000X200, 1000X400, 1000X600, 1000X1000, 1100X400, 1100X600, 1200X600, 1200X800, 1200X1000, 1400X600, 1400X800, 1400X1000,

			1500X600, 1500X1000, 1600X600, 1600X800, 1600X1000, 1600X1200, 1800X600, 1800X800, 1800X1000, 1800X1200, 2000X600, 2000X1000 AND 2000X1400 / NA
5	DOUBLE SOCKET TAPPER	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 50X40, 60X50, 65X50, 80X40, 80X60, 80X65, 100X60, 100X80, 125X60, 125X80, 125X100, 150X80, 150X100, 150X125, 200X100, 200X125, 200X150, 250X125, 250X150, 250X200, 300X150, 300X200 AND 300X250 / NA
6	DOUBLE SOCKET TAPPER	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350X200, 350X250, 350X300, 400X250, 400X300, 400X350, 450X350, 450X400, 500X350, 500X400, 600X400 AND 600X500 / NA
7	DOUBLE SOCKET TAPPER	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700X500, 700X600, 800X600, 800X700, 900X700, 900X800, 1000X800, 1000X900, 1100X1000, 1200X1000, 1400X1200, 1500X1400, 1600X1400, 1800X1600 AND 2000X1800 / NA
8	ALL FLANGED TEE	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40X40, 50X50, 60X40, 60X60, 65X65, 80X40, 80X60, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X60, 125X80, 125X100, 125X125, 150X40, 150X60, 150X80, 150X100, 150X125, 150X150, 200X40, 200X60, 200X80, 200X100, 200X125, 200X150, 200X200, 250X60, 250X80, 250X100, 250X150, 250X200, 250X250, 300X60, 300X80, 300X100, 300X150, 300X200, 300X250 AND 300X300 / NA
9	ALL FLANGED TEE	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350X60, 350X80, 350X100, 350X150, 350X200, 350X250, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X400, 450X100, 450X150, 450X200, 450X250, 450X300, 450X400, 450X450, 500X100, 500X200, 500X400, 500X500, 600X200, 600X400 AND 600X600 / NA
10	ALL FLANGED TEE	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700X200, 700X400, 700X700, 800X200, 800X400, 800X600, 800X800, 900X200, 900X400, 900X600, 900X900, 1000X200, 1000X400, 1000X600, 1000X1000, 1100X400, 1100X600, 1200X600, 1200X800, 1200X1000, 1400X600, 1400X800, 1400X1000, 1500X600, 1500X1000, 1600X600, 1600X800, 1600X1000, 1600X1200, 1800X600, 1800X800, 1800X1000, 1800X1200, 2000X600, 2000X1000 AND 2000X1400 / NA

11	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND, DOUBLE FLANGED 11.25° BEND	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250 AND 300 / NA
12	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND AND DOUBLE FLANGED 11.25° BEND.	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350, 400, 450, 500 AND 600 / NA
13	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000 / NA
14	DOUBLE FLANGED TAPPER	NA / PRESSURE RATING : PN25	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 50X40, 60X50, 65X50, 80X60, 80X65, 100X80, 125X100, 150X125, 200X150, 250X200, AND 300X250 / NA
15	DOUBLE FLANGED TAPPER	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350X300, 400X300, 400X350, 450X400, 500X400 AND

			600X500 / NA
16	DOUBLE FLANGED TAPPER	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700X600, 800X700, 900X800, 1000X900, 1100X1000, 1200X1000, 1400X1200, 1500X1400, 1600X1400, 1800X1600 AND 2000X1800 / NA
17	BLANK FLANGED	NA / PRESSURE RATING : PN10 AND PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000 / NA
18	BLANK FLANGED	NA / PRESSURE RATING : PN25 AND PN40	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA)EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500 AND 600 / NA
19	ALL SOCKET TEE	NA / PRESSURE RATING : PN16	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 350X80, 350X100, 350X150, 350X200, 350X250, 350X300, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X350, 400X400, 450X80, 450X100, 450X150, 450X200, 450X250, 450X300, 450X350, 450X400, 450X450, 500X80, 500X100, 500X150, 500X200, 500X250, 500X300, 500X350, 500X400, 500X450, 500X500, 600X80, 600X100, 600X150, 600X200, 600X250, 600X300, 600X350, 600X400, 600X450, 600X500, 600X600 / NA
20	ALL SOCKET TEE	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 700X80, 700X100, 700X150, 700X200, 700X250, 700X300, 700X350, 700X400, 700X450, 700X500, 700X600, 700X700, 800X80, 800X100, 800X150, 800X200, 800X250, 800X300, 800X350, 800X400, 800X450, 800X500, 800X600, 800X700, 800X800, 900X80, 900X100, 900X150, 900X200, 900X250, 900X300, 900X350, 900X400, 900X450, 900X500, 900X600, 900X700, 900X800, 900X900, 1000X80, 1000X100, 1000X150, 1000X200, 1000X250, 1000X300, 1000X350, 1000X400, 1000X450, 1000X500, 1000X600, 1000X700, 1000X800, 1000X900, 1000X1000, 1100X80, 1100X100, 1100X150, 1100X200, 1100X250, 1100X300, 1100X350, 1100X400, 1100X450, 1100X500, 1100X600, 1100X700, 1100X800, 1100X900, 1100X1000, 1100X1100, 1200X80, 1200X100, 1200X150, 1200X200, 1200X250, 1200X300, 1200X350, 1200X400, 1200X450, 1200X500, 1200X600, 1200X700, 1200X800, 1200X900, 1200X1000, 1200X1100, 1200X1200, 1400X80, 1400X100, 1400X150, 1400X200, 1400X250, 1400X300, 1400X350, 1400X400, 1400X450, 1400X500, 1400X600, 1400X700, 1400X800, 1400X900, 1400X1000, 1400X1100, 1400X1200, 1400X1400, 1400X80, 1400X100, 1400X150, 1400X200, 1400X250, 1400X300, 1400X350, 1400X400, 1400X450, 1400X500, 1400X600, 1400X700, 1400X800, 1400X900, 1400X1000, 1400X1100, 1400X1200, 1400X1400, 1500X80, 1500X100, 1500X150, 1500X200, 1500X250, 1500X300, 1500X350, 1500X400, 1500X450, 1500X500, 1500X600, 1500X700, 1500X800, 1500X900, 1500X1000, 1500X1100, 1500X1200, 1500X1400, 1500X1500, 1600X200, 1600X250, 1600X300, 1600X350, 1600X400, 1600X450, 1600X500, 1600X600. / NA

21	ALL SOCKET TEE	NA / PRESSURE RATING : PN10	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A / NOMINAL DIAMETER (MM): 1600X800, 1600X1000, 1600X1200, 1600X1400, 1600X1600, 1800X200, 1800X250, 1800X300, 1800X350, 1800X400, 1800X450, 1800X500, 1800X600, 1800X800, 1800X1000, 1800X1200, 1800X1400, 1800X1600, 1800X1800, 2000X200, 2000X250, 2000X300, 2000X350, 2000X400, 2000X450, 2000X500, 2000X600, 2000X800, 2000X1000, 2000X1200, 2000X1400, 2000X1600, 2000X1800, 2000X2000 / NA
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PERAKUAN PEMATUHAN STANDARD (BAHAN BINAAN)

Dengan ini disahkan bahawa

NORWARDS INDUSTRIES SDN BHD (442356-M)

LOT 5191 JALAN BALAKONG BATU 13
TAMAN BALAKONG JAYA
43300 SERDANG SELANGOR

Telah menjalani ujian di makmal yang diiktiraf sebagaimana butiran di bawah

No. Kelulusan PPS : 2-12250102	
Nama & Alamat Kilang	
XINFENG PIPE FITTINGS CO., LTD. SME PARK XIANREND AO ENERGY & CHEMICAL INDUSTRY ZONE 115007 YINGKOU CITY, LIAONING PROVINCE, CHINA	
Kategori Produk	Negara Pembuat
IRON AND STEEL PRODUCTS	CHINA
No. Sijil Produk / Laporan Ujian : PC003465	
Tempoh Sah Perakuan Pematuhan Standard	19 Dec 2025 sehingga 18 Dec 2026
Jenis produk Bahan Binaan : (Rujuk Lampiran A untuk butiran terperinci)	



TS. NOR HAMIZA ZAHAR
PENGURUS KANAN
BAHAGIAN PEMATUHAN KUALITI BINAAN

SIJIL INI ADALAH CETAKAN KOMPUTER DAN TIDAK MEMERLUKAN TANDATANGAN

No. Kelulusan PPS : **2-12250102**
 No. Permohonan : **PPSi_1225000241**
 Nama Syarikat / Pengimport : **NORWARDS INDUSTRIES SDN BHD**

NO.	NAMA PRODUK	STANDARD PRODUK	JENAMA	SAIZ / DIMENSI	MODEL NO.	GRED
1	ALL SOCKET TEE	MS 1919 : 2013	NORWARDS	40X40, 50X50, 60X60, 65X65, 80X40, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X80, 125X100, 125X125, 150X40, 150X80, 150X100, 150X150, 200X40, 200X80, 200X100, 200X150, 200X200, 250X80, 250X100, 250X150, 250X200, 250X250, 300X100, 300X150, 300X200, 300X250 AND 300X300	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25
2	DOUBLE SOCKET TEE WITH FLANGED BRANCH	MS 1919 : 2013	NORWARDS	NOMINAL DIAMETER (MM): 40X40, 50X50, 60X40, 60X60, 65X40, 65X65, 80X40, 80X60, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X60, 125X80, 125X100, 125X125, 150X40, 150X60, 150X80, 150X100, 150X125, 150X150, 200X40, 200X60, 200X80, 200X100, 200X125, 200X150, 200X200, 250X60, 250X80, 250X100, 250X150, 250X200, 250X250, 300X60, 300X80, 300X100, 300X150, 300X200, 300X250 AND 300X300	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25
3	DOUBLE SOCKET TEE WITH FLANGED BRANCH	MS 1919 : 2013	NORWARDS	350X60, 350X80, 350X100, 350X150, 350X200, 350X250, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X400, 450X100, 450X150, 450X200, 450X250, 450X300, 450X400, 450X450, 500X100, 500X200, 500X400, 500X500, 600X200, 600X400 AND 600X600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16

4	DOUBLE SOCKET TEE WITH FLANGED BRANCH	MS 1919 : 2013	NORWARDS	700X200, 700X400, 700X700, 800X200, 800X400, 800X600, 800X800, 900X200, 900X400, 900X600, 900X900, 1000X200, 1000X400, 1000X600, 1000X1000, 1100X400, 1100X600, 1200X600, 1200X800, 1200X1000, 1400X600, 1400X800, 1400X1000, 1500X600, 1500X1000, 1600X600, 1600X800, 1600X1000, 1600X1200, 1800X600, 1800X800, 1800X1000, 1800X1200, 2000X600, 2000X1000 AND 2000X1400	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A	PN10
5	DOUBLE SOCKET TAPPER	MS 1919 : 2013	NORWARDS	50X40, 60X50, 65X50, 80X40, 80X60, 80X65, 100X60, 100X80, 125X60, 125X80, 125X100, 150X80, 150X100, 150X125, 200X100, 200X125, 200X150, 250X125, 250X150, 250X200, 300X150, 300X200 AND 300X250	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A	PN25
6	DOUBLE SOCKET TAPPER	MS 1919 : 2013	NORWARDS	350X200, 350X250, 350X300, 400X250, 400X300, 400X350, 450X350, 450X400, 500X350, 500X400, 600X400 AND 600X500	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A	PN16
7	DOUBLE SOCKET TAPPER	MS 1919 : 2013	NORWARDS	700X500, 700X600, 800X600, 800X700, 900X700, 900X800, 1000X800, 1000X900, 1100X1000, 1200X1000, 1400X1200, 1500X1400, 1600X1400, 1800X1600 AND 2000X1800	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A	PN10
8	ALL FLANGED TEE	MS 1919 : 2013	NORWARDS	40X40, 50X50, 60X40, 60X60, 65X65, 80X40, 80X60, 80X80, 100X40, 100X60, 100X80, 100X100, 125X40, 125X60, 125X80, 125X100, 125X125, 150X40, 150X60, 150X80, 150X100, 150X125, 150X150, 200X40, 200X60, 200X80, 200X100, 200X125, 200X150, 200X200, 250X60, 250X80, 250X100, 250X150, 250X200, 250X250, 300X60, 300X80, 300X100, 300X150, 300X200, 300X250 AND 300X300	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa) EXTERNAL COATING: BITUMEN SERIES: A	PN25

9	ALL FLANGED TEE	MS 1919 : 2013	NORWARDS	350X60, 350X80, 350X100, 350X150, 350X200, 350X250, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X400, 450X100, 450X150, 450X200, 450X250, 450X300, 450X400, 450X450, 500X100, 500X200, 500X400, 500X500, 600X200, 600X400 AND 600X600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16
10	ALL FLANGED TEE	MS 1919 : 2013	NORWARDS	700X200, 700X400, 700X700, 800X200, 800X400, 800X600, 800X800, 900X200, 900X400, 900X600, 900X900, 1000X200, 1000X400, 1000X600, 1000X1000, 1100X400, 1100X600, 1200X600, 1200X800, 1200X1000, 1400X600, 1400X800, 1400X1000, 1500X600, 1500X1000, 1600X600, 1600X800, 1600X1000, 1600X1200, 1800X600, 1800X800, 1800X1000, 1800X1200, 2000X600, 2000X1000 AND 2000X1400	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10
11	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND	MS 1919 : 2013	NORWARDS	40, 50, 60, 65, 80, 100, 125, 150, 200, 250 AND 300	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25
12	DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND, DOUBLE FLANGED 11.25° BEND	MS 1919 : 2013	NORWARDS	40, 50, 60, 65, 80, 100, 125, 150, 200, 250 AND 300	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25

13	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND	MS 1919 : 2013	NORWARDS	350, 400, 450, 500 AND 600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16
14	DOUBLE FLANGED 90° BEND, 90°DUCKFOOT BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 22.5° BEND AND DOUBLE FLANGED 11.25° BEND	MS 1919 : 2013	NORWARDS	350, 400, 450, 500 AND 600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16
15	FLANGED SOCKET, FLANGED SPIGOT, COLLAR, DOUBLE SOCKET 90° BEND, DOUBLE SOCKET 45° BEND, DOUBLE SOCKET 22.5° BEND, DOUBLE SOCKET 11.25° BEND, DOUBLE FLANGED 45° BEND, DOUBLE FLANGED 90° BEND, 90°DUCKFOOT BEND	MS 1919 : 2013	NORWARDS	700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10
16	DOUBLE FLANGED TAPPER	MS 1919 : 2013	NORWARDS	50X40, 60X50, 65X50, 80X60, 80X65, 100X80, 125X100, 150X125, 200X150, 250X200, AND 300X250	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25
17	DOUBLE FLANGED TAPPER	MS 1919 : 2013	NORWARDS	350X300, 400X300, 400X350, 450X400, 500X400 AND 600X500	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16

18	DOUBLE FLANGED TAPPER	MS 1919 : 2013	NORWARDS	700X600, 800X700, 900X800, 1000X900, 1100X1000, 1200X1000, 1400X1200, 1500X1400, 1600X1400, 1800X1600 AND 2000X1800	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10
19	BLANK FLANGED	MS 1919 : 2013	NORWARDS	40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10 AND PN16
20	BLANK FLANGED	MS 1919 : 2013	NORWARDS	40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500 AND 600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN25 AND PN40
21	ALL SOCKET TEE	MS 1919 : 2013	NORWARDS	350X80, 350X100, 350X150, 350X200, 350X250, 350X300, 350X350, 400X80, 400X100, 400X150, 400X200, 400X250, 400X300, 400X350, 400X400, 450X80, 450X100, 450X150, 450X200, 450X250, 450X300, 450X350, 450X400, 450X450, 500X80, 500X100, 500X150, 500X200, 500X250, 500X300, 500X350, 500X400, 500X450, 500X500, 600X80, 600X100, 600X150, 600X200, 600X250, 600X300, 600X350, 600X400, 600X450, 600X500, 600X600	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN16

22	ALL SOCKET TEE	MS 1919 : 2013	NORWARDS	700X80, 700X100, 700X150, 700X200, 700X250, 700X300, 700X350, 700X400, 700X450, 700X500, 700X600, 700X700, 800X80, 800X100, 800X150, 800X200, 800X250, 800X300, 800X350, 800X400, 800X450, 800X500, 800X600, 800X700, 800X800, 900X80, 900X100, 900X150, 900X200, 900X250, 900X300, 900X350, 900X400, 900X450, 900X500, 900X600, 900X700, 900X800, 900X900, 1000X80, 1000X100, 1000X150, 1000X200, 1000X250, 1000X300, 1000X350, 1000X400, 1000X450, 1000X500, 1000X600, 1000X700, 1000X800, 1000X900, 1000X1000, 1100X80, 1100X100, 1100X150, 1100X200, 1100X250, 1100X300, 1100X350, 1100X400, 1100X450, 1100X500, 1100X600, 1100X700, 1100X800, 1100X900, 1100X1000, 1100X1100, 1200X80, 1200X100, 1200X150, 1200X200, 1200X250, 1200X300, 1200X350, 1200X400, 1200X450, 1200X500, 1200X600, 1200X700, 1200X800, 1200X900, 1200X1000, 1200X1100, 1200X1200, 1400X80, 1400X100, 1400X150, 1400X200, 1400X250, 1400X300, 1400X350, 1400X400, 1400X450, 1400X500, 1400X600, 1400X700, 1400X800, 1400X900, 1400X1000, 1400X1100, 1400X1200, 1400X1400, 1400X80, 1400X100, 1400X150, 1400X200, 1400X250, 1400X300, 1400X350, 1400X400, 1400X450, 1400X500, 1400X600, 1400X700, 1400X800, 1400X900, 1400X1000, 1400X1100, 1400X1200, 1400X1400, 1500X80, 1500X100, 1500X150, 1500X200, 1500X250, 1500X300, 1500X350, 1500X400, 1500X450, 1500X500, 1500X600, 1500X700, 1500X800, 1500X900, 1500X1000, 1500X1100, 1500X1200, 1500X1400, 1500X1500, 1600X200, 1600X250, 1600X300,	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10
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				1600X350, 1600X400, 1600X450, 1600X500, 1600X600.		
23	ALL SOCKET TEE	MS 1919 : 2013	NORWARDS	1600X800, 1600X1000, 1600X1200, 1600X1400, 1600X1600, 1800X200, 1800X250, 1800X300, 1800X350, 1800X400, 1800X450, 1800X500, 1800X600, 1800X800, 1800X1000, 1800X1200, 1800X1400, 1800X1600, 1800X1800, 2000X200, 2000X250, 2000X300, 2000X350, 2000X400, 2000X450, 2000X500, 2000X600, 2000X800, 2000X1000, 2000X1200, 2000X1400, 2000X1600, 2000X1800, 2000X2000	INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPA) EXTERNAL COATING: BITUMEN SERIES: A	PN10