



No Lesen : PC000181

Licence No :

## LESEN PENSIJILAN BARANGAN *Product Certification Licence*



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



PC 05102004 CB 01

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*

**BS EN 545 : 2010**

**Nur Fadhilah binti Muhammad**  
Ketua Pegawai Eksekutif  
*Chief Executive Officer*  
SIRIM QAS International Sdn. Bhd.



SIRIM QAS International Sdn. Bhd.  
(No. Syarikat 410334-X)  
1, Persiaran Dato' Menteri  
Seksyen 2, Peti Surat 7035  
40700 Shah Alam  
Selangor Darul Ehsan  
MALAYSIA.

**Tarikh Mula Pensijilan : 11 May 2012**

*Certified Since*

**Sah Sehingga : 09 August 2022**

*Valid Until*

**Tarikh Dikeluarkan : 29 July 2021**

*Issue Date*

**No Siri : 066107**

*Serial No*

Tel : 60-3-55446400  
Faks : 60-3-55446466

<http://www.sirim.my>

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Lesen ini dianugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.  
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# SCHEDULE

**NORWARDS INDUSTRIES SDN. BHD.**



**SIRIM**



PC 05102004 CB 01



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
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
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

# SCHEDULE

## NORWARDS INDUSTRIES SDN. BHD.



SIRIM



PC 05102004 CB 01



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
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
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
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

# SCHEDULE

**NORWARDS INDUSTRIES SDN. BHD.**



**SIRIM**



PC 05102004 CB 01



Model : ALL FLANGED TEE  
 Rating : PRESSURE RATING : PN16  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN

Size : 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

Model : ALL FLANGED TEE  
 Rating : PRESSURE RATING : PN10  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN

Size : 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

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

Size : SERIES: A  
 : NOMINAL DIAMETER (mm): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250 AND 300

Model : 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

Size : SERIES: A  
 : NOMINAL DIAMETER (mm): 350 AND 400

# SCHEDULE

## NORWARDS INDUSTRIES SDN. BHD.



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

Rating : PRESSURE RATING : PN16

Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
EXTERNAL COATING: BITUMEN



PC 05102004 CB 01

Size : SERIES: A  
NOMINAL DIAMETER (mm): 350, 400, 450, 500 AND 600

Model : DOUBLE FLANGED 90° BEND, 90° DUCKFOOT BEND

Rating : PRESSURE RATING : PN10

Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
EXTERNAL COATING: BITUMEN



Size : SERIES: A  
NOMINAL DIAMETER (mm): : 700, 800, 900 AND 1000

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

Rating : PRESSURE RATING : PN10

Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
EXTERNAL COATING: BITUMEN

Size : SERIES: A  
NOMINAL DIAMETER (mm): 700, 800, 900, 1000, 1100, 1200, 1400, 1500, 1600, 1800 AND 2000

Model : DOUBLE FLANGED TAPPER

Rating : PRESSURE RATING : PN25

Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
EXTERNAL COATING: BITUMEN

Size : SERIES: A  
NOMINAL DIAMETER (mm): 50x40, 60x50, 65x50, 80x60, 80x65, 100x80, 125x100, 150x125, 200x150, 250x200, AND 300x250

# SCHEDULE

**NORWARDS INDUSTRIES SDN. BHD.**



Model : DOUBLE FLANGED TAPPER  
 Rating : PRESSURE RATING : PN16  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN

Size : SERIES: A  
 : NOMINAL DIAMETER (mm): 350x300, 400x300, 400x350, 450x400, 500x400 AND 600x500



Model : DOUBLE FLANGED TAPPER  
 Rating : PRESSURE RATING : PN10  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN



Size : SERIES: A  
 : NOMINAL DIAMETER (mm): 700x600, 800x700, 900x800, 1000x900, 1100x1000, 1200x1000, 1400x1200, 1500x1400, 1600x1400, 1800x1600 AND 2000x1800

Model : BLANK FLANGED  
 Rating : PRESSURE RATING : PN10 AND PN16  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN

Size : 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

Model : BLANK FLANGED  
 Rating : PRESSURE RATING : PN25 AND PN40  
 Type : INTERNAL LINING : FUSION BONDED EPOXY OR CEMENT MORTAR (>50MPa)  
 EXTERNAL COATING: BITUMEN

Size : SERIES: A  
 : NOMINAL DIAMETER (mm): 40, 50, 60, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500 AND 600

**Factory Name and Location :**  
**YINGKOU ECONOMIC AND TECHNOLOGY DEVELOPMENT ZONE,**  
**XINFENG PIPE FITTINGS CO., LTD.**  
**YINGKOU ECONOMIC TECHNOLOGY DEVELOPMENT ZONE**  
**YINGKOU CITY**  
**LIAONING PROVINCE, CHINA**

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