



No Lesen : PC000181

Licence No :

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

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 199601037981(410334-X))

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

Tel : 603-5544 6000
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<https://www.sirim-qas.com.my>
<https://www.malaysiancertified.com.my>

Tarikh Mula Pensijilan : 11 May 2012

Certified Since

Sah Sehingga : 31 December 2025

Valid Until

Tarikh Dikeluarkan : 29 October 2024

Issue Date

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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

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

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

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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

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

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NORWARDS INDUSTRIES SDN. BHD.



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



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

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

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

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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



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



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

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

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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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



SIRIM



ACB 001



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, 1400x300, 1400x400, 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.

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.

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SCHEDULE

NORWARDS INDUSTRIES SDN. BHD.



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.



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



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