

Kitemark™ Certificate

This is to certify that:

Tata Steel Limited
Metaliks Division, PO: Samraipur,
PS: Kharagpur
District: Paschim Midnapur
Kharagpur, West Bengal
721301
India

Holds Certificate Number:

KM 639498

In respect of:

BS ISO 2531
Ductile iron pipes, fittings, accessories and their joints for water applications

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.



For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

First Issued: 2024-06-11

Effective Date: 2024-06-11

Latest Issue: 2024-06-11

Expiry Date: 2027-06-02



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Kitemark™ Certificate

No. KM 639498

BS ISO 2531:2009 - Ductile iron pipes, fittings, accessories and their joints for water applications

| | | | | | | | | | | | | | | | |
|--|--|-----------------|------------------------|------|------|------|-------|-----|-----|-----|-----|-----|-----|-----------------|-----|
| Product: | Pipes (non-flange type) Material: Ductile iron Installation/use: Above or below External coating: Zinc layer followed by either: *1 Bitumen *2 Blue epoxy Branded as: Mfg Loc 000: Tata Ductura Mfg Loc 001: Tata Ductura | | | | | | | | | | | | | | |
| Description | Nominal size, DN/OD (mm) | Lgth (m) | Pressure rating | | | | | | | | | | | Mfg. Loc | |
| Pipes with push-in flexible joints <small>*1, 2* 3*</small> | DN 80 – 300 | 5.5 | PN10 | PN16 | PN25 | K9*5 | K12*5 | C20 | C25 | C30 | C40 | C50 | C64 | C100 | 000 |
| Pipes with push-in flexible joints <small>*1, 2* 3*</small> | DN 350 - 600 | 5.5 | - | - | - | ✓ | ✓ | - | - | ✓ | ✓ | ✓ | ✓ | - | 000 |
| Pipes with push-in flexible joints <small>*1, 2* 3*</small> | DN 700 - 800 | 5.5 | - | - | - | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | - | - | 000 |
| Notes: General note: | *1, *2 External coatings in accordance with BS ISO 2531:2009 (clause 4.5.1) and holding WRAS material approval. *3, *4 Internal linings in accordance with BS ISO 2531:2009 (clause 4.5.2) and holding WRAS material approval. *5 Denotes class K9 and K12 are as per BS ISO 2531:1998. Only products denoted by a '✓' are covered for the specific pressure rating stated. | | | | | | | | | | | | | | |

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 To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated [online](#).

Kitemark™ Certificate

No. KM 639498

BS ISO 2531:2009 - Ductile iron pipes, fittings, accessories and their joints for water applications

| | | | | | | | | | | | | | | | |
|---|--|-----------------|------------------------|------|------|------|-------|-----|-----|-----|-----|-----|-----|-----------------|-----|
| Product: | Pipes (flange type) Material: Ductile iron Installation/use: Above or below External coating: Zinc layer followed by either: *1 Bitumen *2 Blue epoxy Branded as: Mfg Loc 000: Tata Ductura Mfg Loc 001: Tata Ductura | | | | | | | | | | | | | | |
| Description | Nominal size, DN/OD (mm) | Lgth (m) | Pressure rating | | | | | | | | | | | Mfg. Loc | |
| Pipes with Cast-on Flanges (non-centrifugally casted) *1, 2* 3*, 4* | DN 80 - 300 | ≤2 | PN10 | PN16 | PN25 | K9*5 | K12*5 | C20 | C25 | C30 | C40 | C50 | C64 | C100 | 001 |
| Pipes with Cast-on Flanges (non-centrifugally casted) *1, 2* 3*, 4* | DN 350 - 600 | ≤2 | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | 001 |
| Pipes with Cast-on Flanges (non-centrifugally casted) *1, 2* 3*, 4* | DN 700 - 1000 | ≤2 | ✓ | ✓ | ✓ | - | - | - | - | - | - | - | - | - | 001 |
| Notes: General note: | *1, *2 External coatings in accordance with BS ISO 2531:2009 (clause 4.5.1) and holding WRAS material approval. *3, *4 Internal linings in accordance with BS ISO 2531:2009 (clause 4.5.2) and holding WRAS material approval. *5 Denotes class K9 and K12 are as per BS ISO 2531:1998. Only products denoted by a '✓' are covered for the specific pressure rating stated. | | | | | | | | | | | | | | |

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| Product: | Fittings (flange type) | | | | | | |
|--------------------------------------|-------------------------------|---|------------------|-----------------|-------------------------|------|-----------------------|
| | Material: | Ductile iron | | | | | |
| | Installation/use: | Above or below | | | | | |
| | External coating: | Zinc layer followed by either: *1 Bitumen *2 Blue epoxy | | | Internal lining: | | *3 Cement *4 Epoxy |
| | Branded as: | Mfg Loc 001: Tata Ductura | | | | | |
| Description | Nominal Size, DN/OD (mm) | External Coating | Internal Coating | Pressure rating | | | Mfg. Loc. |
| | | | | PN10 | PN16 | PN25 | |
| Flanged socket | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Flanged spigot | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged 11.25° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged 22.5° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged 45° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged 90° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged Duckfoot 90° Bend | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged Long Radius 90° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Flanges | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |

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BS ISO 2531:2009 - Ductile iron pipes, fittings, accessories and their joints for water applications

| Product: | | Fittings (flange type) continued..... | | | | | |
|--|--------------------------|--|---|-----------------|------|-------------------------|-----------------------|
| | | Material: | Ductile iron | | | | |
| | | Installation/use: | Above or below | | | | |
| | | External coating: | Zinc layer followed by either: *1 Bitumen *2 Blue epoxy | | | Internal lining: | *3 Cement *4 Epoxy |
| | | Branded as: | Mfg Loc 001: Tata Ductura | | | | |
| Description | Nominal Size, DN/OD (mm) | External Coating | Internal Coating | Pressure rating | | | Mfg. Loc. |
| | | | | PN10 | PN16 | PN25 | |
| Blank flanges | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Reducing flanges | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Flanged Tapers (Concentric & Eccentric) | DN 80 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| All Flanged Radial Tees | DN 50 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| All Flanged Tees (Level Invert Outlet) | DN 50 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| All Flanged Tees | DN 50 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Socket Tees with Flanged Branch | DN 50 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |
| Double Socket Tees with Flanged Branch (Level Invert Outlet) | DN 50 – 1000 | *1, 2* | *3, 4* | ✓ | ✓ | ✓ | 001 |

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| Product: | Fittings (non-flange type) | | | |
|---|-----------------------------------|---|------------------------|------------------|
| | Material: | Ductile iron | | |
| | Installation/use: | Above or below | | |
| | External coating: | Zinc layer followed by either: *1 Bitumen *2 Blue epoxy | | |
| | Branded as: | Mfg Loc 001: Tata Ductura | | |
| | Internal lining: | *3 Cement *4 Epoxy | | |
| Description | Nominal Size, DN/OD (mm) | External Coating | Internal Lining | Mfg. Loc. |
| Mechanical Joint & Socket Joint Collars | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| Double Socket 11.25° Bends | DN 80 - 1000 | *1, 2* | *3, 4* | 001 |
| Double Socket 22.5° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| Double Socket 45° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| Double Socket 90° Bends | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| All Socket Tees | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| All Socket Tees (Level Invert Outlet) | DN 80 – 1000 | *1, 2* | *3, 4* | 001 |
| Double Socket Tapers (Concentric & Eccentric) | DN 50 – 1000 | *1, 2* | *3, 4* | 001 |

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