

IRONTITE® DUCTILE IRON PIPE

HANDLING AND STORAGE

TRANSPORTATION AND STORAGE

Although ductile iron pipes and fittings are known for their mechanical strength and robustness of their coatings, it is important to avoid swinging pipes or rubbing pipes against each other. Pipes and fittings should avoid impact and not be dropped or come into contact with sharp objects likely to cause damage.

All ductile iron pipes are normally packed for road freight on timber bearers to prevent any direct contact with the bottom of the tray. Pipes are secured to the truck with chains to prevent movement during transit. Rubber padding is also used between the chains and outer pipes in the top row for protection against damage.

Upon arrival, check pipes and fittings for damage and check quantities ordered of each item against the delivery docket. Make note of any damage or loss on the delivery docket and have the driver sign it. Damaged pipes and fittings should be quarantined and inspected to determine appropriate action.

Pipes should be lifted carefully off the truck in a safe and controlled manner. Lifting and stacking must be performed in such a way that the stability of the stack, crane or vehicle is not affected.

Ironite® ductile iron pipes are normally unloaded by crane. However a suitable forklift can also be used provided the unloading area is even, level and stable for lifting. Forklifts with attachments must be load rated to suit the lifting requirements. Contact the forklift manufacturer for advice and information for your particular needs. Always follow safe unloading requirements at all times.

The storage site must be even, level and stable for lifting and stacking. Stack the pipes on horizontal supporting timbers placed on the ground approximately 1500mm from each pipe end. The same timbers should also be used to separate layers if pipes are stacked. Stack heights should be limited from a safety point of view and to prevent damage to pipes in the bottom layers. The socket and spigot ends should be placed at opposite ends with the socket protruding to prevent point loading during storage.



The information contained in this document should serve as a guide only and is subject to change without notice. For more information please contact Iplex Pipelines Australia Pty Ltd.



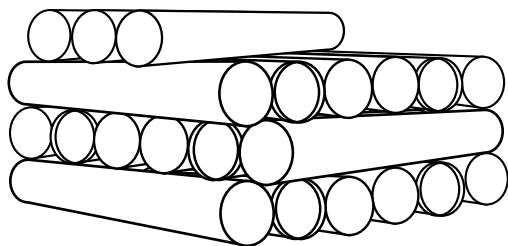
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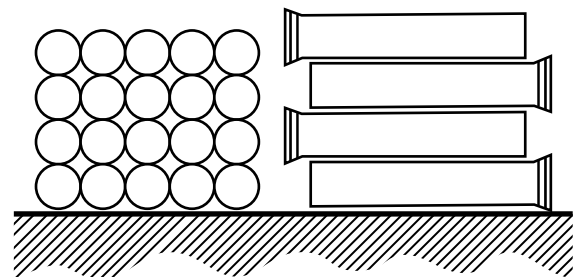
TABLE 1.1 TYPICAL STACK HEIGHTS

DN	TYPICAL STACK HEIGHT (LAYERS OF PIPE)
100	12
150	8
200	7
225	6
250	5
300	4
375	3
450	3
500	3
600	3
750	3

Stack heights are highly dependant on site conditions and method of stacking. A risk analysis should be undertaken by a competent person, to ensure all safety precautions have been examined on site, prior to stacking pipes



Square Stackings



Parallel Stacking

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STORAGE - RUBBER RINGS, SLEEVING AND LUBRICANT

Rubber ring seals and sleeving should be stored away from direct sunlight. They should also be protected from greases and oils and solvents and other harmful substances.

Only lubricant supplied with Irontite® pipe and ductile iron fittings from Iplex should be used as other types, e.g mineral based oils and greases can destroy the rubber ring.

PIPE HANDLING

Ductile iron pipes are susceptible to damage by impact loading. Poor handling can result in damaged linings and in severe cases deformation of the spigot, which could affect the sealing of the joint.

Following the correct unloading and handling procedures can avoid impact damage. Prior to laying the pipe inspect pipes for damage to the pipe itself, including pipe spigot and socket and cement mortar linings.

Pipes should be lifted with proper slings and foundry hooks. End hooks should be rubber padded to protect the cement lining from damage. Lift pipes carefully and avoid impact.

PIPE REPAIR

If pipes are damaged, they can be repaired on site or in the storage yard. The following is a guide only when assessing any damage.

1. Where external surfaces are slightly damaged, (small areas, zinc not detached) repairs are not necessary.
2. Where a large area of the coating has been damaged, contact Iplex pipelines for instructions.
3. Any cement mortar lining damage with an area less than 0.10m² and less than 25% of the pipe circumference with no localised damage can be repaired. Contact Iplex pipelines for instructions.

Alternatively cutting off the damaged section may be more appropriate.

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