

WSA PS – 230 POLYVINYLCHLORIDE, UNPLASTICISED (PVC-U) PIPES AND FITTINGS FOR NON-PRESSURE APPLICATIONS – SEWERAGE AND DRAINAGE

230.1 SCOPE

This specification covers PVC-U non-pressure pipes and fittings, including solvent cements and priming fluids, for use in gravity sewerage and drainage.

230.2 REQUIREMENTS

- 1 PVC-U pipes and fittings shall comply with AS/NZS 1260:2017.
- 2 PVC-U pipes and fittings shall be marked 'BEP PVC' or the words 'BEST ENVIRONMENTAL PRACTICE PVC'.
- 3 Pipes shall be Stiffness Class SN8 (for DN 150 and above) and SN10 (for DN 100).
- 4 Joints:
 - (a) Elastomeric seals shall be EPDM or CR or SBR complying with AS 1646:2007 and AS 681.1:2008 (EN 681-1:1996).
 - (b) Solvent cement and priming fluid for use with tapered socketed fittings shall be Type N¹ or Type G² complying with AS/NZS 3879:2011.
 - (c) Solvent cement for use with parallel socketed fittings shall comply with manufacturer's requirements.
 - (d) A threaded spigot and socket joint with an elastomeric sealing ring system that accommodates tensile and compressive loads to manufacturer's requirements.³

230.3 QUALITY ASSURANCE

- 1 PVC-U non-pressure pipes and fittings shall have product certification (ISO Type 5) to AS/NZS 1260:2017. The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08⁴.
- 2 Elastomeric joint seals shall have product certification (ISO Type 5) to AS 1646:2007 and AS 681.1:2008 (EN 681-1:1996).
- 3 Solvent cements shall have product certification (ISO Type 5) to AS/NZS 3879:2011.
- 4 All products shall be marked in accordance with the conformity assessment body's requirements.

230.4 AGENCY OR PROJECT SPECIFIC REQUIREMENTS

Limitations on wall construction (plain wall, ribbed, solid core sandwich construction or foam core sandwich construction)	
Joint type (elastomeric seal or solvent cement or threaded spigot and socket joint with an elastomeric seal ³)	
Alternative pipe stiffness Class (e.g. SN16)	

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Alternative elastomeric material for joint seals (e.g. NBR)	
Alternative Heavy Duty fittings ⁵	
Minimum Wall Thickness DN 100 RRJ (4mm) SCJ (5mm)	
Minimum Wall Thickness DN 150 RRJ (5mm) SCJ (6mm)	

- 1 Type N is used for jointing PVC pipe systems with tapered/interference fit joints which will not be subjected to internal pressure or other applications where high bond strength is not required.
- 2 Type G is used for joining PVC and ABS pressure or non-pressure pipes where parallel/no or low interference fit joints are used and where a high bond strength and ability to fill small gaps is required.
- 3 Restrained joint and seal ring systems are designed to accommodate tensile and compressive loads, installation using trenchless methods where pipes may be “pushed” or “pulled” into place depending on the installation methodology.
- 4 Water Services Association of Australia Technical Note (WSA TN-08) sets out additional product conformity assessment requirements that are associated with demonstration of conformity to AS/NZS 1260:2017.
- 5 Complying fittings shall be branded "Heavy Duty"

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