

PRODUCER STATEMENT

Iplex RESTRAIN® Restrained Joint PVC-U Pipe For Trenchless Installation

(NON-PRESSURE APPLICATIONS ONLY)

Compliance: Iplex RESTRAIN™ pipes are manufactured in accordance with AS/NZS 1260 -PVC-U pipes and fittings for drain, waste and vent applications. (Standards Mark Licence number SMKP20184. SN stiffness class represents values in N/m/m. For example, SN16 pipe has a stiffness of 16000 N/m/m.

Product Code: RESTRAIN Series

Description: Iplex RESTRAIN® is a plain wall PVC-U SN16 pipe manufactured with threaded socket and spigot rubber ring joint

Joining: Threaded socket and spigot with rubber seal ring comply with the elastomeric seal joint requirements of AS/NZ 1260.

Applications:

- Gravity sewer applications installed by trenchless methodology
- Domestic house drains
- Urban gravity sewer mains
- Industrial gravity discharge mains

Trenchless Installation Methods:

- Horizontal Directional Drilling (HDD)
- Horizontal Auger boring
- Pilot Tube Microtunnelling
- Pipe bursting /cracking (Static or Hydraulic)
- Slip Lining
- Pipe Reaming (Pipe Eating)

Fittings: Compatible with PVC-U DWV fittings conforming to AS/NZS 1260

- Solvent Weld Joint (Coded '100' Series) Injection Moulded fittings DN 100 - DN 150
- Rubber Ring Joint (Coded '1500' Series) Injection Moulded fittings DN 100 - DN 150

Design & Installation: Iplex RESTRAIN® pipe should be installed in accordance with the following Standards:

- **General Installation:**
AS/NZS 2032 "Installation of PVC Pipe Systems"
- Iplex RESTRAIN® Design & Installation Guide, available from Iplex Pipelines
- **Buried Structural Design:**
AS/NZS 2566 Part 1 and supplement 1. "Buried Flexible Pipelines - Structural Design"
- **Detailed Installation and Site Pressure Testing:**
AS/NZS 2566 Part 2 "Installation"

Limitations: Iplex RESTRAIN® PVC pipe should not be used:

- Pipe bursting using any pneumatic or concussive pipe bursting equipment
- With axial tensile or compressive loads which exceed the pipe strength performance limits
- With aromatic and chlorinated hydrocarbons ketones, esters and ethers
- For any pumped or pressure application
- At continuous service temperatures above 60°C, or for intermittent discharges of liquid above 75°C
- Without adequate support to the pipe in below ground applications

Iplex RESTRAIN® Installation Load Capacity				
Pipe Size	Pipe O.D./ (mm)	Pipe & Rubber Ring Joint Specification	Maximum Tensile Load During Installation	Maximum Compression Load During Installation
DN100	110	AS/NZS 1260 SN16	1,800kg	1,800kg
DN150	160	AS/NZS 1260 SN16	3,500kg	3,000kg
DN225	250	AS/NZS 1260 SN16	9,500kg	9,500kg
DN300	315	AS/NZS 1260 SN16	12,000kg	12,000kg

Iplex RESTRAIN® Pipe Dimensions			
Nominal Size DN	Mean O.D. (mm)	Mean I.D. (mm)	Max O.D. at Socket
100	110.2	101.6	115.0
150	160.3	147.9	167.5
225	250.3	231.2	262
300	315.4	290.8	328

Minimum order quantities may apply



Assembly and installation of DN150 Iplex RESTRAIN® gravity sewer, replacing an old EW sewer by pipe reaming with a horizontal directional drill, Invercargill City.



Pilot Tube Microtunnelling installation of DN 225 (250mm OD) Iplex RESTRAIN®, Taranaki