

## PRODUCER STATEMENT

# RESTRAIN™ Restrained Joint PVC-U Pipe For Trenchless Installation

(NON-PRESSURE APPLICATIONS ONLY)

**Compliance:** 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 SMK20184. 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:** RESTRAIN™ is a plain wall SN16 pipe manufactured with threaded socket and spigot rubber ring joint

**Joining:** Threaded socket and spigot with rubber seal ring conforming fully to 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

### Installation Methods:

- Horizontal directional drilling
- Auger boring
- Guided boring
- Micro tunneling
- Pipe bursting / cracking
- Slip Lining On-line replacement (pipe reaming)

**Fittings:** Compatible with PVC sewer fittings conforming to AS/NZS 1260 DWV Fittings (PVC-U)

- 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:** RESTRAIN™ pipe should be installed in accordance with the following Standards:

- **General Installation:**  
AS/NZS 2032 "Installation of PVC Pipe Systems"
- RESTRAIN™ 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:** RESTRAIN™ PVC pipe should not be used:

- 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 both above ground and below ground applications
- With pneumatic or concussive pipe bursting equipment

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

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 RESTRAIN™ gravity sewer, replacing an old EW sewer by pipe reaming with a horizontal directional drill, Invercargill City.



Microtunnelling installation of DN 225 (250mm OD) RESTRAIN™, Taranaki