

UNISTOP™ TPR

THERMO RUBBER WATERSTOP

UNISTOP™ TPR

THERMO RUBBER WATERSTOP

PRODUCT FEATURES

UNISTOP™ TPR Thermo Rubber Waterstop range are extruded from specially formulated, blended with high quality polyvinyl chloride (PVC) and rubber compound. It is free from reclaimed or vulcanised waste. It is designed to be cast into construction or expansion joints in concrete structures as an integral sealing system to prevent the passage of liquids under pressure especially for water retaining or excluding applications with high movements and water pressure.

ADVANTAGES

- Easy install and on-site welding
- Lighter weight than natural rubber
- Prefabricated intersections to minimize on-site heat jointing
- Capable to withstand high hydrostatic head and water pressure
- Resistant to Aging, Corrosion, Weather, Acid, Alkali, Metal Salt

FIELD OF APPLICATION

Water Tanks & Reservoirs	Basement & Underground Car Parks
Water & Sewerage Treatment Plants	Tunnels & Subways
Dam, Culverts & Spillways	Retaining Walls
Swimming Pools	Roof Decks & Podium Areas
Bund Walls	Lift pits & Service Pits

TECHNICAL PROPERTIES

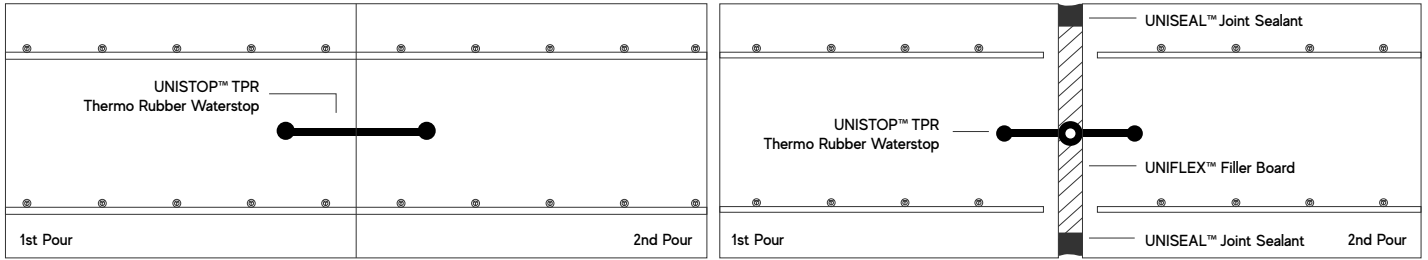
PROPERTIES	TEST METHOD	UNIT MEASUREMENT	VALUE
Tensile Strength	ASTM D 638	MPa	16.7
Elongation at Break	ASTM D 638	%	220
Hardness	BS EN ISO 868	SHORE A	84
Specific Gravity	BS EN ISO 1183-1	g/cm ³	1.453
Water Absorption, 23°C	BS EN ISO 62	%	0.16

(All values given are subject to 5-10% tolerance / All values are based on testing of rubber compound / Compliance with ASTM & ISO BS standard)

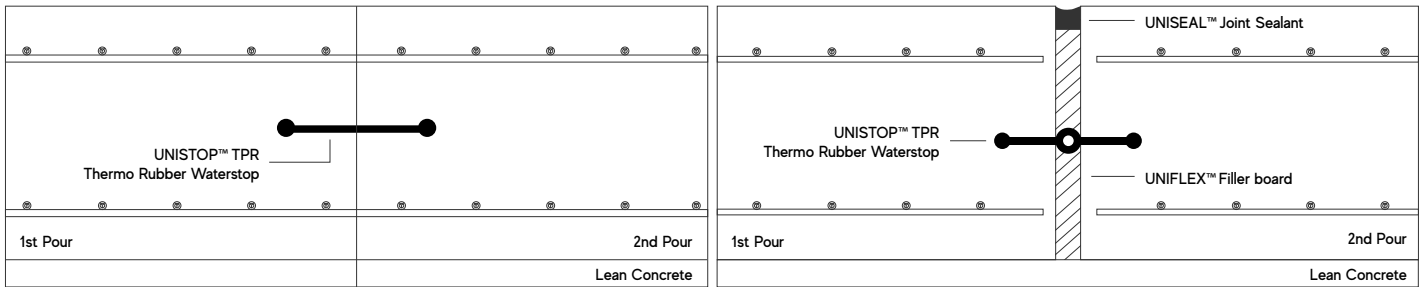
PHYSICAL PROPERTIES

MATERIAL	Polyvinyl Chloride (PVC) & Rubber
COLOUR	Black
PACKAGING	20m / roll (150mm width) 15m / roll (230mm width) *packing other than the above can be manufacture on request*
MELTING TEMPERATURE	180°C - 200°C

TYPICAL DRAWING & PROFILES

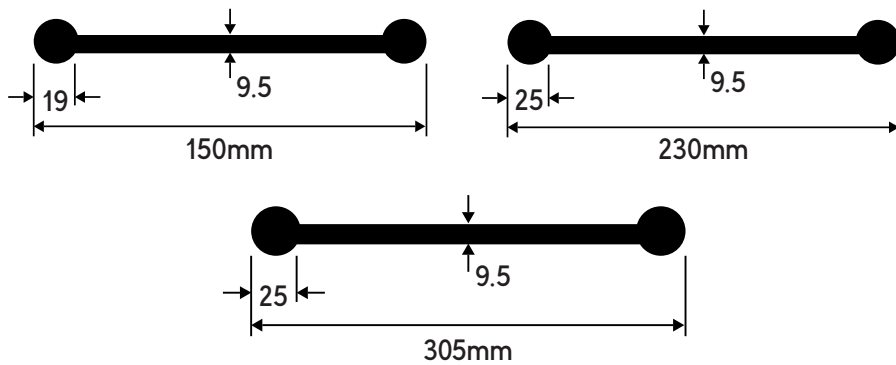


WALL / SUSPENDED SLAB APPLICATION



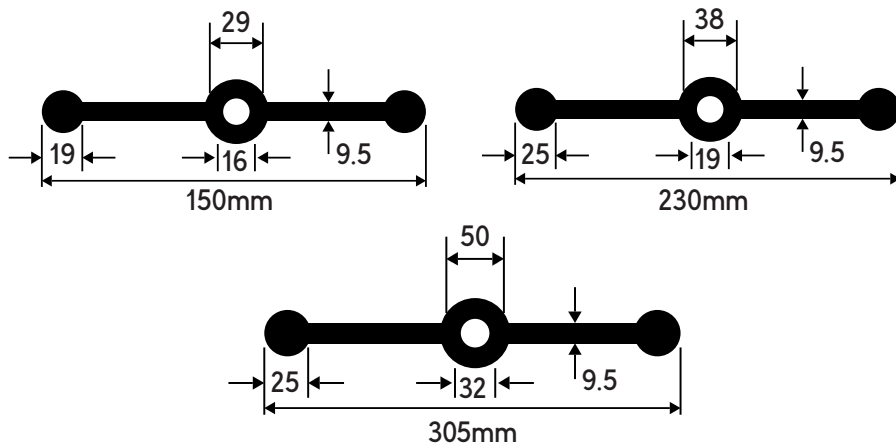
SLAB ON GROUND APPLICATION

UNISTOP TPR - DB (Dumbbell)



- UNISTOP TPR 150DB (150mm)
- UNISTOP TPR 230DB (230mm)
- UNISTOP TPR 305DB (305mm)

UNISTOP TPR - CB (Centre Bulb)



- UNISTOP TPR 150CB (150mm)
- UNISTOP TPR 230CB (230mm)
- UNISTOP TPR 305CB (305mm)

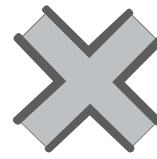
FACTORY PREFABRICATED INTERSECTIONS



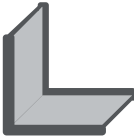
FLAT - L



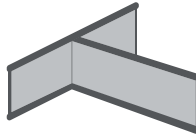
FLAT - T



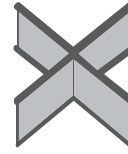
FLAT - X



VERTICAL - L

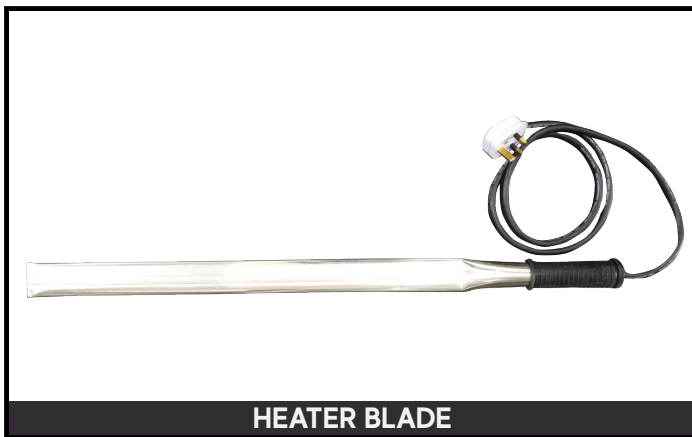


VERTICAL - T



VERTICAL - X

JOINTING ACCESSORIES



HEATER BLADE



JOINTING JIG

PROFILES AND WIDTH SELECTION

▶ FIXING

UNISTOP™ TPRDB & CB internally placed waterstops are positioned within the concrete where the centerline of the waterstop is aligned with the centre of the joint, and securely fix in their correct position to avoid moving during concrete placement.

The formwork should be securely erected either side of waterstop so as clamp it in the middle of where the concrete will be poured. The concrete must be fully and properly compacted around the waterstop to ensure that no voids or porous areas remain. No holes are to be made through any waterstop.

NOTE :

When working with expansion joints where there is centre bulb, it is important that the bulb should not be casted into the concrete but remain exposed.

To create expansion joints, cast one side of the concrete first, then securely fix **UNIFLEX PE™** (Polyethylene Joint Filler) to the concrete faces either side of the **UNISTOP™ TPR Thermo Rubber Waterstop** centre bulb for the full depth of the joint, before casting the next piece of concrete directly against the **UNIFLEX PE™**

▶ WELDING / JOINTING

UNISTOP™ TPR Thermo Rubber Waterstop are made from PVC & rubber, it can therefore allow an easy on-site welding.

However, it is recommended to use factory fabricated junctions such as L, T and X intersection pieces. Both ends are heated with heatwatt heater blade until it melts (without burning or charring). The heatwatt heater blade is then removed and the molten ends are immediately firmly pressed together.

The welded joint should be inspected once it has cooled. Ensure there are no irregularity of cut edges or dirt accumulation on the blade during jointing process. The welding blade shall be cleaned while it is still hot

SITE PHOTOS



This technical data sheet is given in good faith and does not guarantee the application work. All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the users responsibility to obtain the latest version of the information required.



UNITY RELIANCE (M) SDN BHD

6-2, Jalan Meranti SD13/5, Bandar Sri Damansara
52200 Petaling Jaya Selangor.

Website : <https://www.unityreliance.com>
Email : unityreliance88@gmail.com
Tel : 03 - 6263 0139 / 010 - 785 1159