

# BluSeal UCG Waterstop

PVC UNIVERSAL CENTRE GUARD WATERSTOP

BluSeal UCG Waterstop is a universal PVC centre guard watersop which requires only installation to a positive seal for in-situ concrete expansion and constructions joints.

BluSeal UCG Waterstop has been designed for sealing various configurations of concrete elements and structures. The product is available in a range of size profiles for use in construction and movement joints. BluSeal UCG Waterstop is used for both joint sealing and compartmentalisation purposes.

## Application Advantages

- Easy to install
- Full range of sizes
- Conforms and exceeds all major international standards

## Lifecycle Advantages

- High quality PVC for long term durability and integrity
- Can withstand high hydrostatic pressures
- Resistant to a range of environmental conditions

## About the Product

BluSeal UCG Waterstops are extruded from specially formulated PVC to meet International standards. The product has high flexibility and an ability to withstand cyclical loadings expected within movement joints. The range of widths and rib configurations provides specifiers with options which will suit a range of waterproofing solutions. BluSeal UCG Waterstop has the structural integrity and the long term durability to make it suitable for critical infrastructure works in a range of application environments. It is the reliable choice for all modern civil and commercial building applications.

## Application Solutions

- Watertanks
- Basements
- Tunnels
- Sewage and water treatment plants
- Reservoirs, dams and spillways

## Project Specification Clause

PVC WATERSTOP - The PVC waterstop used for this project shall be a pre-fabricated product that has independent testing to validate the performance outlined in the technical data table on the following pages. BluSeal UCG Waterstop manufactured by Bluey Technologies or equivalent shall be accepted.

## Project Examples

Tunnels, basement construction, water treatment plants, sewage treatment plants.

# BluSeal UCG Waterstop

## PVC UNIVERSAL CENTRE GUARD WATERSTOP

### Design Specification

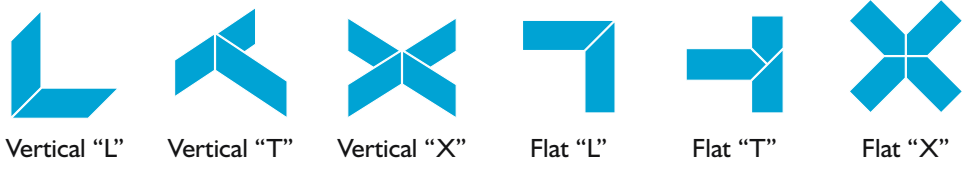
- I.1 Bluey recommends that the design of the joint sealing system be completed by an experienced waterproofing specialist.
- I.2 All waterstop must be formed into closed loops to prevent any open ends
- I.3 Waterstops are provided for both compartmentalisation and joint sealing purposes
- I.4 Compartments shall be designed to optimise future maintenance requirements

### Application Specification

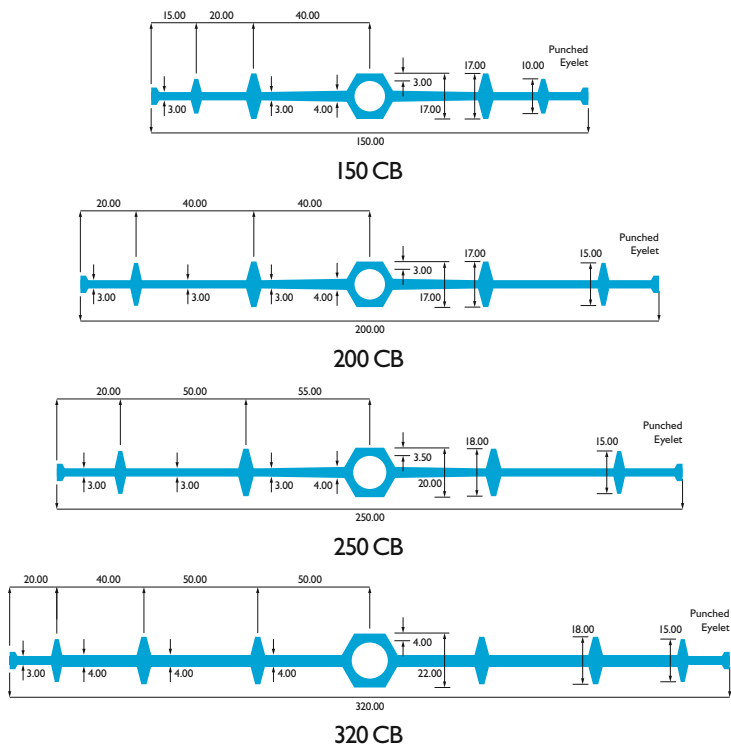
- I.5 Bluey recommends the use of its specialised welding equipment for on-site welding.
- I.6 This consist of thermostatically controlled welding blades and welding jigs.
- I.7 On-site joining is a critical application and must be completed correctly to guarantee to quality of the system.
- I.8 The ends of the waterstop are cut square and placed into the adjustable jig.
- I.9 The ends of the waterstop then slide up against the welding iron and bring the two ends together until the molten ends of the PVC fuse.

### FACTORY MADE INTERSECTIONS

- 2.1 A wide range of standardised prefabricated intersection pieces are available allowing easy site welding of butt joints to BluSeal UCG Waterstop.
- 2.2 See below standard factory intersections.



### INTERNAL PROFILES



# BluSeal UCG Waterstop

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## Product Data

Please refer to Important Notice on following page

Colour	Blue
Packaging	150mm - 200mm = 20m roll, 250mm = 15m roll, 320mm = 12m roll
Roll Weight	Dependent upon profile type
Storage Conditions/Shelf Life	5 years from the date of production, if stored properly in original, unopened and undamaged, sealed packaging in dry conditions, out of direct sunlight at temperatures between 10°C and 40°C
Material Type	Polyvinyl Chloride (PVC)
Welding Temperature	Approximately 190°C - 200°C
Service Temperature	-25°C - 70°C

TESTED CHARACTERISTIC	STANDARD	REQUIREMENT	RESULT
Tensile Strength	BS 2782-320A	Min 12.00N/mm <sup>2</sup>	15.69N/mm <sup>2</sup>
Elongation at Break	BS 2782-320A	Min 300%	320%
Loss of Mass	BS EN 60811-3-2:1995	N/A	1.69mg/cm <sup>2</sup>
Water Absorption	ISO 62	Max 1.0mg	0.19mg
Specific Gravity	BS 2782-620B	1.38 ±0.03g/cm <sup>3</sup>	1.41g/cm <sup>3</sup>
Thermal Stability, Congo Red Test	BS 2782-130A	350%	50 min @ 180°C
Shore A Hardness	BS 2782-365B	75 ±5 (BSS 45 ±10)	75 (BSS 42)

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## IMPORTANT NOTICE

This Technical Data Sheet is provided for general information and instruction only. The properties and characteristics set out herein represent typical testing results under laboratory conditions. Results of actual product characteristics may vary slightly. Site-specific and project-specific conditions may affect product performance, including without limitation: surfaces, environmental conditions, contact conditions, storage conditions, storage timeframes, weather, and climatic or seasonal conditions. Not all product parameters are batch tested as part of the manufacturing quality control process, and performance may vary between batches.

If Bluey gives any express written product warranty in relation to the product, that warranty is subject to the foregoing qualifications, despite anything to the contrary in any other document. All other representations, advice, suggestions or promises regarding the product's performance or its implementation, whether verbal or in writing, and whenever given, including in the course of any field services, are expressly disclaimed. Without limiting the foregoing, Bluey will have no liability for loss or damage of any kind if any application specifications are not followed.

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