



TREMSTOP WATERSTOPS

Foundation Works / Basements / Retaining Walls / Tunnels / Reservoirs / Swimming Pools



Construction Products Group

A world leading supplier of building envelope solutions

We know that the success of any construction project relies on more than the products that are used, it takes a lot of skill, knowledge, understanding, and expertise to ensure that those products are applied in the best way possible.

At Tremco Construction Products Group (CPG), we're committed to shaping the future through innovative approaches and sustainable solutions.

This commitment is backed up by the fact that we bring together first-class technology with a customer-focused approach, along with skills that have been built up over multiple decades within very specialised fields, to provide a truly unique service.

From joint sealing, façade bonding and insulation through to passive fire protection, performance resin flooring, waterproofing, and roofing solutions – our broad range makes us the ideal partner to solve the complex challenges faced by today's architects, contractors, developers, and trades.

With expertise in a range of product technologies, Tremco CPG provides solutions to help you engineer structures that are more efficient to build and maintain, are virtually impervious to the elements, and can provide a multitude of finishes.

Our brands include Tremco, Duram, Willseal, Flowcrete, Illbruck, Nullifire, and Euclid Chemical.



Why Tremco CPG?



Faster Construction Time

Lightweight, fast-curing and prefabricated products mean less occupant disruption, faster return to service, less revenue lost, and no call-backs.



Technical Support

Our dedicated team of industry professionals are there to support you every step of the way, with on-site visits, Technical Support and advice.



Cost Effective

A broad range of options that fit any budget – but also help you keep an eye on the future to ensure cost-effective ownership, operation and maintenance.



One Point of Contact

Products are tested for compatibility and backed by system warranties – all through a single point of contact, with a single point of responsibility.



Any Look You Want

A wide range of colours and finishes for floors, walls, façades and roofs to provide almost unlimited design potential for your building project.



Impervious to Weather

Products designed for maximum protection from the elements, including above and below ground-level solutions to prevent the ingress of water.



Better Insulated

Industry leading brands that provide solutions for more efficient building construction and operation, and exceeding strict energy codes for insulation.



Leading Edge Sustainability

Construction solutions that meet green building standards, enhancing building efficiency and conscious of the environment that surrounds us.

JOINT TYPES



JOINT TYPES



Construction Joint

A Construction joint is defined by the surface where two successive placements of concrete meet, across which it may be desirable to achieve bond and through which reinforcement may be continuous. They may be planned or unplanned.

Contraction Joint

A Contraction joint is formed, sawn or tooled into the concrete structure to create a weakened plane to regulate the location of cracking resulting from dimensional change in different parts of the structure.

Expansion Joint

An Expansion joint is a gap which allows the concrete to expand and contract as/when the temperature changes. It forms a break between the concrete and/or other parts of the structure to allow movement without causing stress which can lead to cracking.

Why are Joints Required?

The 4 main reasons joints are required are:

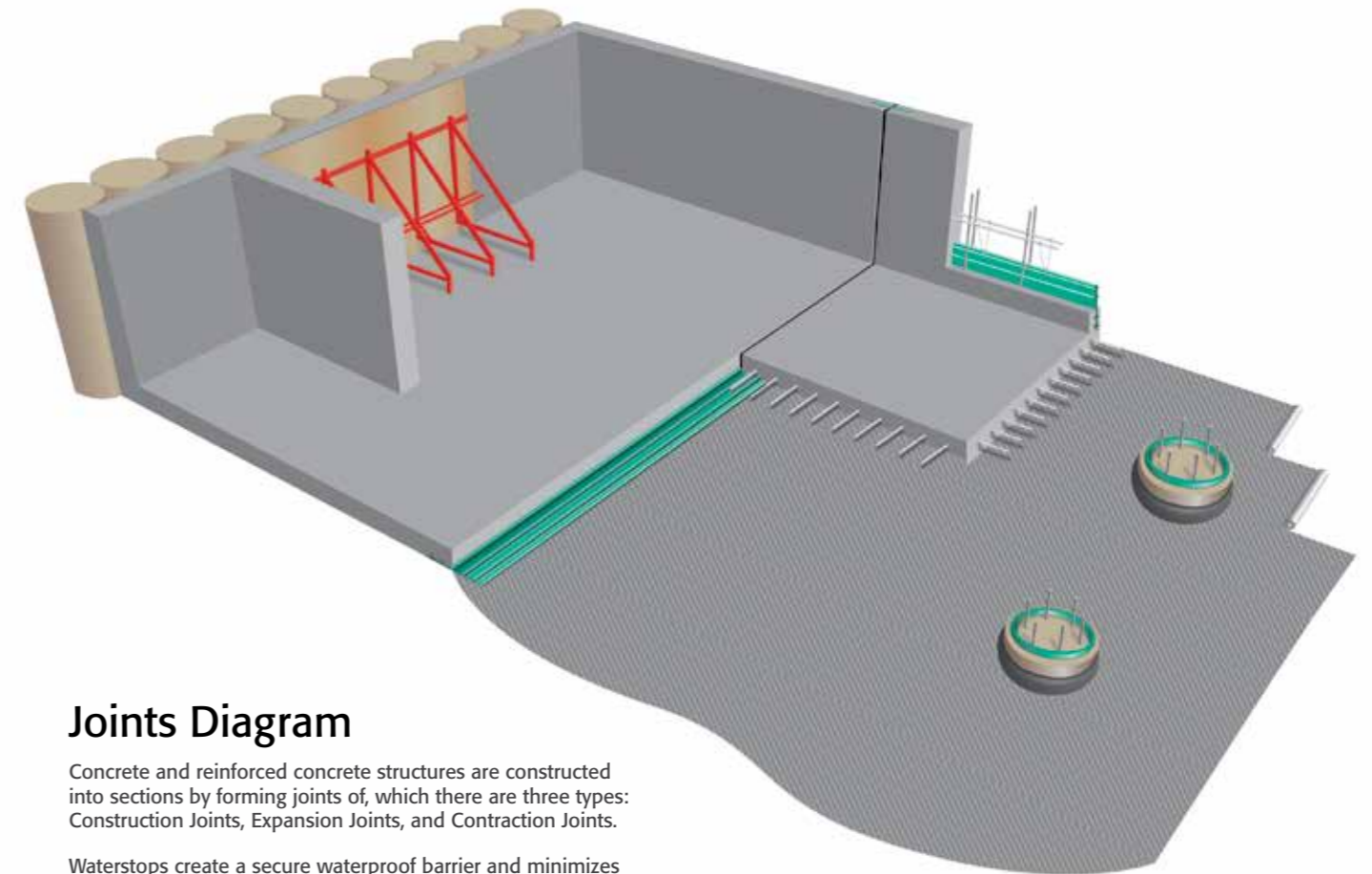
1. The member or structure cannot be constructed as a monolithic unit in one placement of concrete.
2. The member has to be of a limited size so it can be handled by cranes etc.
3. The design assumptions for the structure or building need the joint at a designated point.
4. The structure or member on one side of the joint needs to be able to move relative to that on the other side.

TYPICAL APPLICATIONS INFORMATION

Joints are a requirement for every concrete structure. The joints may be expansion joints or construction joints, but any joint that comes into contact with water needs to be protected with a waterstop.

The waterstop can be made of a hydrophilic rubber or an impervious PVC strip that is cast into concrete joints in order to prevent water from passing through.

Tremco's range of waterstops is available and ready to solve this specific problem.



Joints Diagram

Concrete and reinforced concrete structures are constructed into sections by forming joints of, which there are three types: Construction Joints, Expansion Joints, and Contraction Joints.

Waterstops create a secure waterproof barrier and minimizes water ingress, as this is the sole purpose of joint sealing as shown in the diagram.



It is important to understand the safety legislation required for your project. For expert advice, find us at your local office or contact at www.tremco.com.au



PVC WATERSTOPS



PVC WATERSTOP RANGE

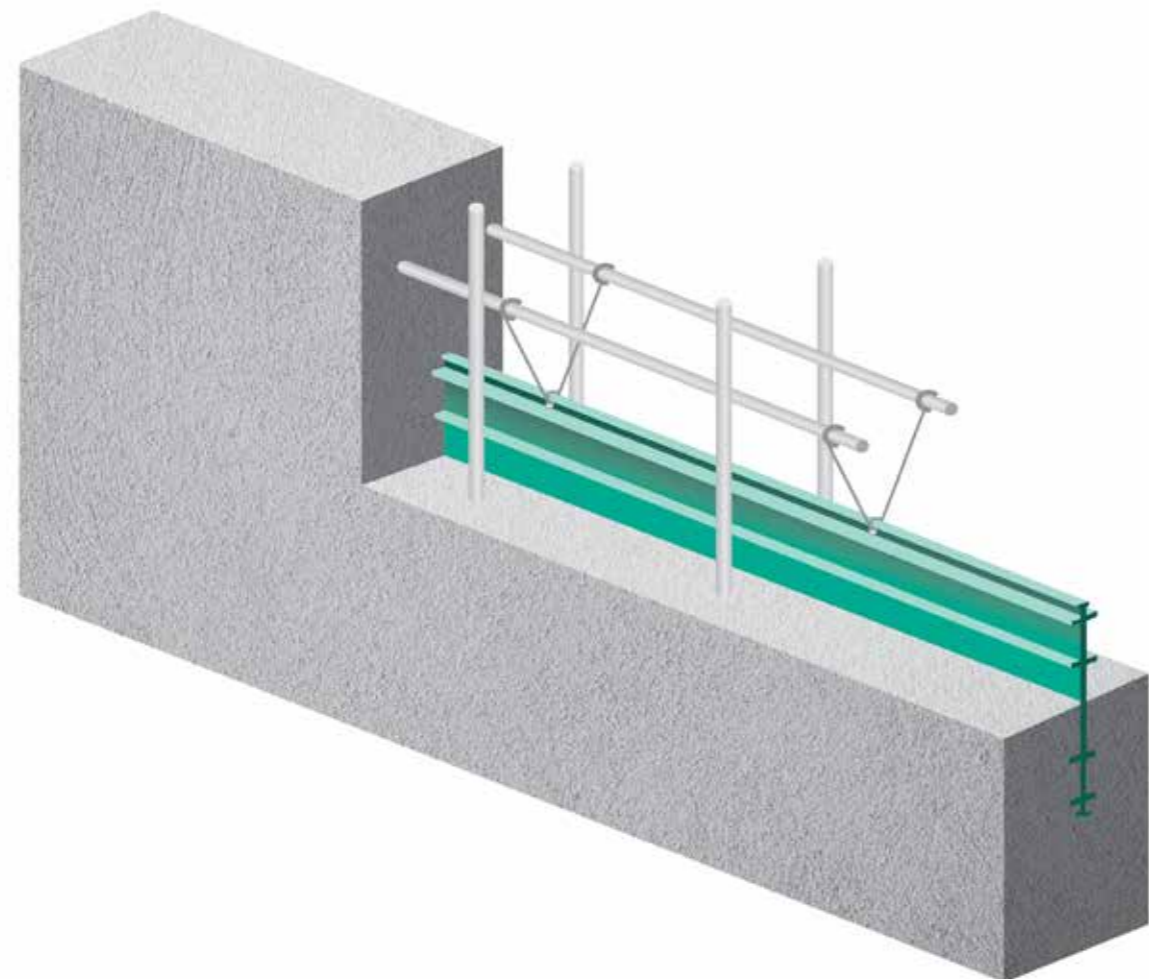


Description

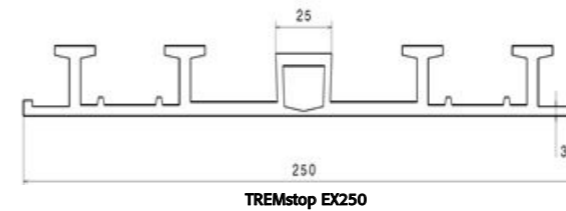
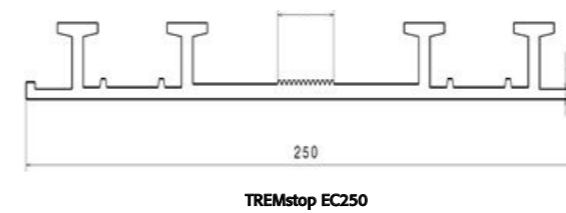
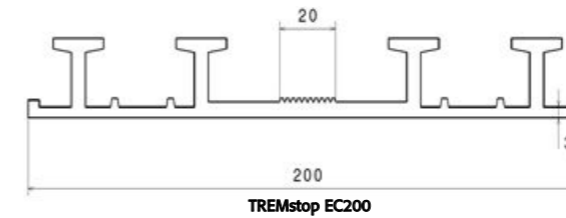
TREMCO's PVC Waterstop profiles are designed for maximum performance. These profiles utilize the most advanced features of what PVC waterstop engineering offers today.

Its correct bulb shapes serve as valves and as such increase the total surface area of the profile making the movement of water across the 'tortuous path' extremely difficult.

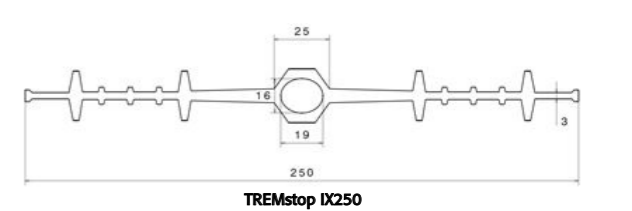
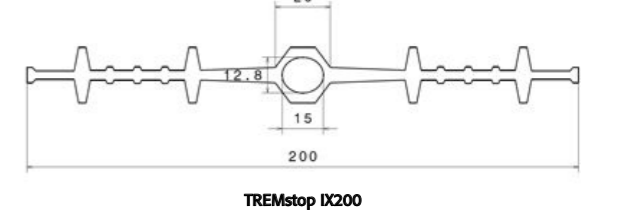
Tremco's TREMstop PVC Waterstops provide long-term protection against unwanted water penetration in even the most harshest of environmental conditions and has a sloped web thickness that prevents future cracking.



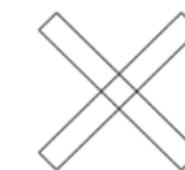
External Joints



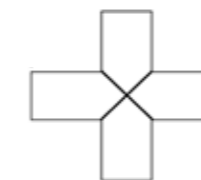
Internal Joints



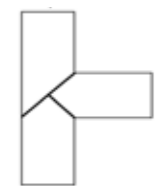
Intersections



Vertical X Joint



Flat X Joint



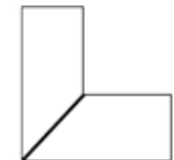
Flat T Joint



Vertical T Joint



Vertical L Joint



Flat L Joint

HYDROPHILIC RANGE



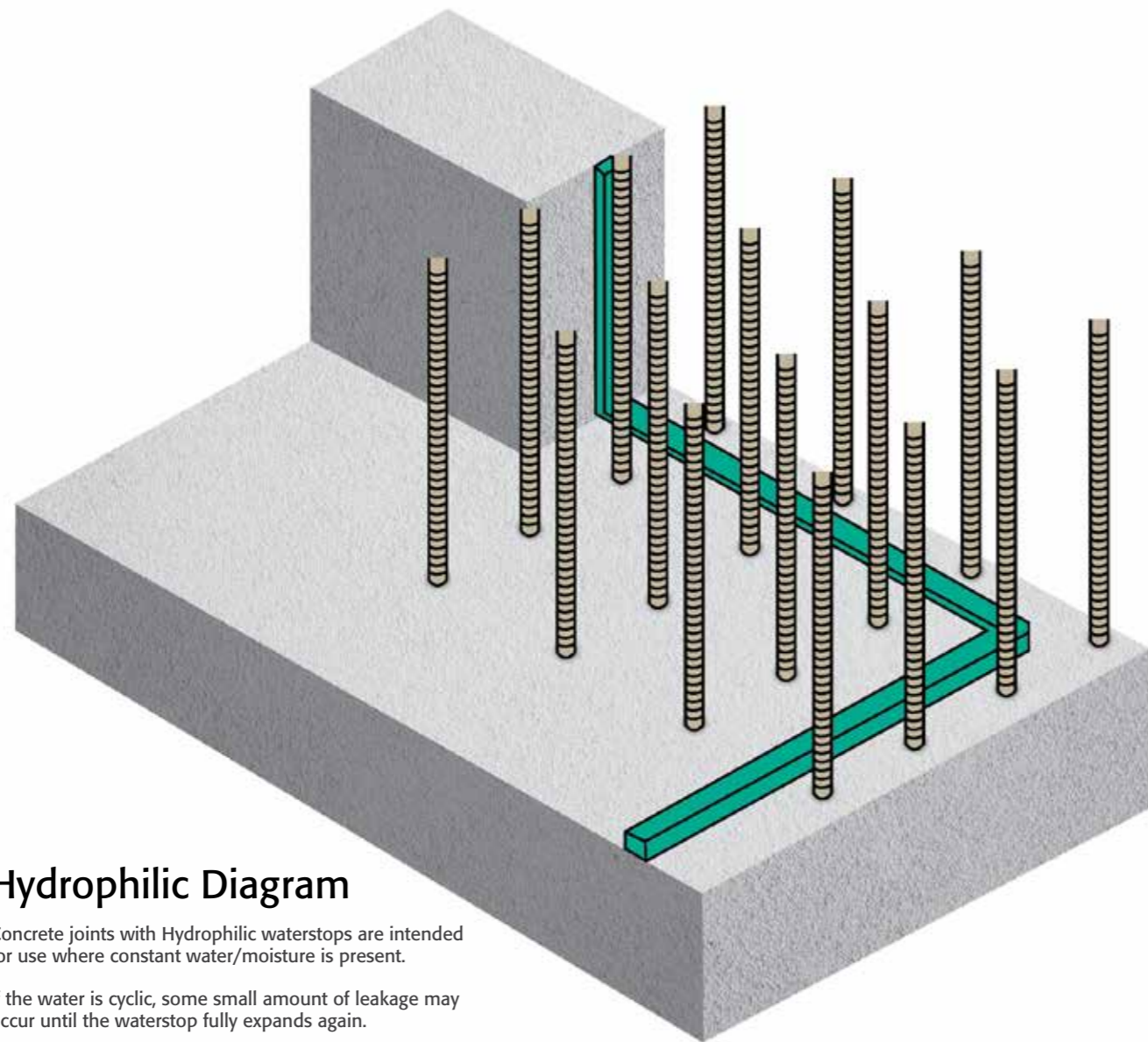
HYDROPHILIC RANGE



Description

In the construction of basements, tunnels, lift shafts etc. Hydrophilic Waterstops are used to seal joints in prefabricated concrete elements that swell on contact with water while remaining dimensionally stable.

Tremco's Hydrophilic Waterstops are designed to be used for the successful sealing of joints of up to 5 bar water pressure.



Hydrophilic Diagram

Concrete joints with Hydrophilic waterstops are intended for use where constant water/moisture is present.

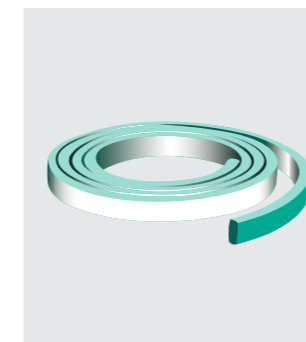
If the water is cyclic, some small amount of leakage may occur until the waterstop fully expands again.

Description

Rubber, hydrophilic resin, polyethylene, silicon and special additives are used to make Tremco's Hydrophilic Waterstops, which is an extruded TPE-based alloy.

When in contact with water, it can swell four times its size and under confinement will form a tight seal with it's surroundings.

In spite of rough surfaces and uneven gaps ,TREMstop Hydros sealing effect is still achieved by the developing swelling pressure and can perform multiple swelling cycles.



1. TREMstop Hydro Waterstops

TREMstop Hydro Waterstop is an expanding joint sealing profile that swells upon contact with water, whilst remaining dimensionally stable.

We offer a variety of sizes to suit every individuals need. We have:

1. TREMstop Hydro 2005 (20mm x 5mm)
2. TREMstop Hydro 2005 AD (20mm x 5mm, adhesive backed)
3. TREMstop Hydro 2010 (20mm x 10mm)
4. TREMstop Hydro 2010 AD (20mm x 10mm, adhesive backed)



2. TREMstop Hydro Mastic (Swellable Mastic)

TREMstop Hydro Mastic is a one-component, solvent-free adhesive and sealing compound based on polyurethane technology which swells in contact with water for the sealing of joints and pipe penetrations.

Tremco Construction Products Group (CPG) represents the combined power of brands including Tremco, Dryvit, Willseal, Flowcrete, Nullifire, illbruck, Vandex, Euclid Chemical, Duram, Nuralite, Nurajack, Outright.

Our products and services empower teams to develop, design, restore and engineer structures that are more efficient to build and maintain, are virtually impervious to the elements and can provide any look desired.

Ph: 1800 318 038

www.tremco.com.au

 **TREMCO**
Construction Products Group