

INSTALLATION OF BENTONITE SWELLING WATERSTOP (HYPERSWELL)

1. Unlike PVC Waterstop, the installation of Hyperswell begins after the 1st pour of concrete is completed. Preparing of a chase / groove is not required.
2. Ensure surfaces of construction joint are clean, dry and free from dirt, oils, release agents, debris. Loose / flaking concrete or laitance should be removed by "scabbing."
3. Apply Clevcon Waterstop Adhesive along the joints where Hyperswell to be installed. Allow the adhesive to be tacky.



Fixing bentonite swelling waterstop on concrete surface

4. Uncoil length of Hyperswell, with release paper intact, and apply exposed face against concrete, pushing firmly against release paper to force waterstop into concrete undulations. When sufficient waterstop has been positioned, remove release paper.
5. Besides use of adhesive, the use of masonry nails at approx. 300 mm. spacing is allowed for Hyperswell installation.
6. On vertical installation or uneven surface, it is recommended to use both adhesive and concrete nails together to ensure firm fixing of waterstop during concrete placement.
7. To join Hyperswell along its length or at intersections, simply "cut & butt", to form a continuous network. Overlapping waterstop is not necessary.

INSTALLATION OF BENTONITE SWELLING WATERSTOP (HYPERSWELL)

8. Do not allow swelling waterstop to be exposed to rain or standing water prior to pouring of concrete.
9. If rains are anticipated prior to concrete pouring, apply Clevcon Delay Swell Coating to prevent premature swell of waterstop.

Waterstop Delay Swell Coating Application (Optional)

- Once Hyperswell is secured, apply thin coat of Waterstop Delay Swell by brush on all exposed sides of waterstop.
- Be careful not to apply the material too thick, otherwise it will prevent the swell. The appropriate film thickness is approximately 100 microns.
- Allow coating to dry for 15 – 20 mins.



Apply Waterstop Delay Swell Coating on all exposed sides of waterstop

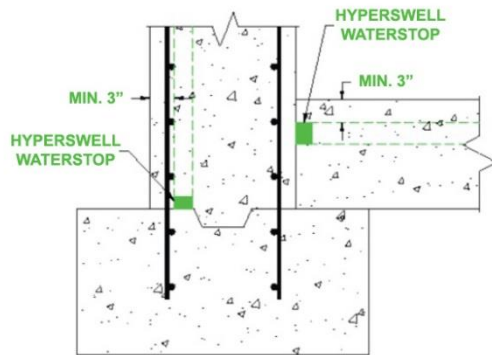
Size Selection Guide

| SIZE | CONCRETE COVERING | AREA OF USE |
|-------------|-------------------|---|
| 25mm x 20mm | Min. 7.5 cm | Below grade structures where higher water pressure or above grade large water retaining structures, e.g. basement, tunnels, water tanks, lift shafts, reservoirs, waste water treatment plants, pools, swimming pools, roofs etc. |
| 20mm x 15mm | Min. 7.0 cm | |
| 20mm x 10mm | Min. 5.0 cm | Thin section, where low water pressure e.g. wet areas, pipe penetrations, kitchens, bathrooms etc. |

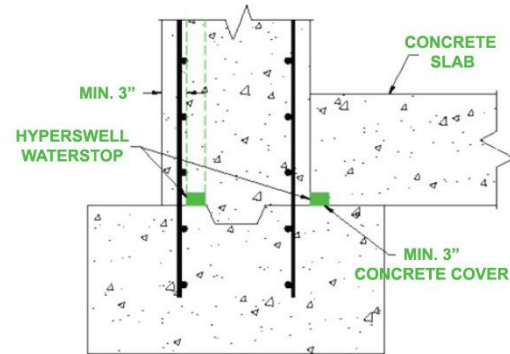
FM-RD-09/Rev.01

INSTALLATION OF BENTONITE SWELLING WATERSTOP (HYPERSWELL)

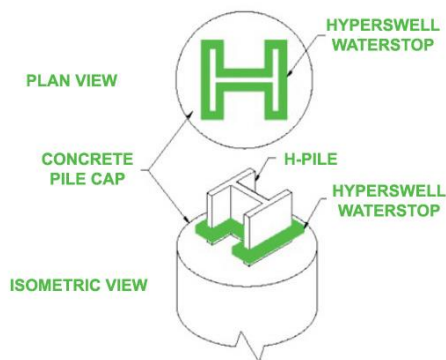
Installation Details



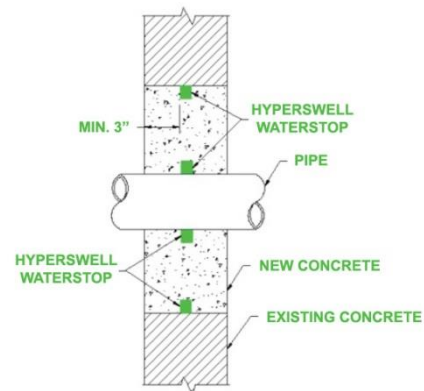
**HYPERSWELL IN JOINT OF FOUNDATION
FOOTER/WALL AND FOOTER/FLOOR**



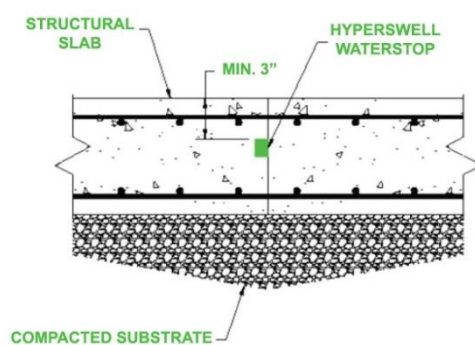
**HYPERSWELL IN JOINT OF FOUNDATION
FOOTER/WALL AND FOOTER/FLOOR**



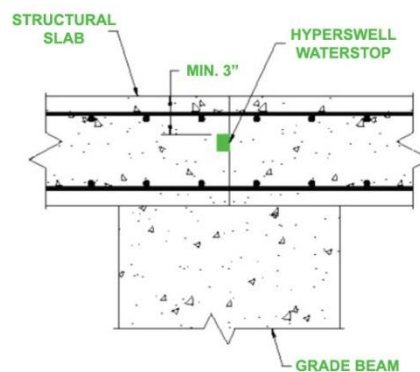
HYPERSWELL ON PILE CAP



**HYPERSWELL ON PIPE PENETRATION WITH ADDITIONAL JOINT
BETWEEN NEW AND EXISTING CONCRETE**



HYPERSWELL IN SLAB SECTION JOINT



HYPERSWELL IN SLAB SECTION JOINT WITH GRADE BEAM

FM-RD-09/Rev.01