

- Important design notes:

• Site photographs of all service penetrations to be uploaded to Premtrac prior to pouring concrete. Allow sufficient time for Premcrete to review and QC check.

• If annulus around the penetrations is greater than 50mm Teknocem LA should be used instead of Hydroprufe EP.

• Where multiple pipes are cast together, a minimum distance of 50mm should be maintained between pipes.

• All laps between products are 150mm unless otherwise annotated.

• Hydroplug System is typically installed by follow on contractors, not groundworker, once M&E works are fully installed.

• Hydroplug System is not covered under warranty once installed.

• Hydroplug Sealing Kit only applicable for sealing around services inside sleeves, but is not installed inside pipes carrying liquid
- KEY
- Click on product names to access technical information
- | | |
|---|-------------|
| Hydroplug Foam | <div></div> |
| Hydroplug Paste | <div></div> |
| Hydroplug Mortar | <div></div> |
| Hydroprufe EP or Teknocem LA | <div></div> |
| Service inside sleeve | <div></div> |
| Hydrostop WS10 | <div></div> |
| Hydroprufe 6000 Flexi | <div></div> |
| Hydroseal FX | <div></div> |
| Hydroprufe LG | <div></div> |
| 0.7-1.2mm quartz aggregate to be broadcast into coating where concrete connection is required (0.5kg per 1m²) | |
| Hydroprufe 8000 | <div></div> |
| Protection Board 300 | <div></div> |
| Protection Board 600 | <div></div> |
| HCR Foil Girth Tape | <div></div> |
| Hydroprufe Tophat | <div></div> |
- | | |
|---|-------------|
| Standard Concrete to Structural Liner Wall / Slab | <div></div> |
|---|-------------|
- Conditions**
This drawing is copyright of Premcrete. Permission for copying may be obtained from Premcrete.
This drawing must be read in conjunction with the relevant datasheets, BS 8102:2022 and BS 8485:2015+A1:2019 if appropriate.
This drawing has been prepared as a guide to assist with the installation of the products.
This drawing requires the approval of the designer of the structure.
It is the responsibility of the designer to ensure that any design decisions, made by others that have an impact on the waterproofing design are brought to the attention of the waterproof designer.
It is the responsibility of the designer of the structure to ensure that the details shown on this drawing match the construction drawings.
Drawing template is A3L.
- Important Notes
- The waterproofing design is designed to the Grades of Environment described below:
Grade 1A - Seepage and dampness from internal and external sources tolerable
Grade 1B - No seepage, however damp areas from internal and external sources tolerable
Grade 2 - No seepage through structure is acceptable however condensation and dampness are tolerable as a result of internal air moisture
Grade 3 - Ventilation, dehumidification or air conditioning are required appropriate to intended use in accord with BS 8102:2022 Table 2 to achieve a dry, habitable environment which is outside the scope of this design

Construction joints are required to be scabbled or retarded to ensure good concrete connection. An approved curing agent is to be applied to concrete immediately after pouring.
Laps between dissimilar waterproofing products to be 100mm unless otherwise annotated.
All substructure construction joints must have waterbar installed with a minimum of 75mm concrete cover. (Internal, non-retaining construction joints do not require waterbars).
A maximum ratio of 3:1 is required for any liner wall pours. Liner wall pours should be cast 'hit and miss' to ensure that shrinkage of concrete is compensated.
It is the responsibility of the installing contractor to ensure that good concrete practice is maintained at all times when pouring concrete. If the design incorporates any of the following products:

 - Hydrocrete should be a minimum of 200mm thick or 300mm if poured monolithically in conjunction with standard concrete.
 - Hydroprufe Primer to be applied to concrete/ masonry substrate prior to the application of Hydroflow Corner Tape or Hydroprufe Detail Tape.
 - Hydroseal Sealer to be applied to all surfaces prior to installing Hydroflow HP.
 - High density insulation under Hydroflow HP20 should be fixed to substrate at a minimum of 5 fixings per sheet.
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- TYPICAL CAST IN PENETRATION DETAIL
-
- TYPICAL BOX OUT PENETRATION DETAIL
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- TYPICAL BOX OUT PENETRATION DETAIL FOR MULTIPLE PIPES
-
-
-
- Client Drawing No
240010-PRE-ZZ-GF-D-X-0000021
- Premcrete Drawing No
OP005596-TD-002
- Date
09/07/2025
-
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| P01 | 10/07/25 | Issued for Information | RD | AJM |
| Rev | Date | Description | Dwn | Chk |
- Scale
Not to Scale
- GATEWAY 2 DESIGN**
Design principles confirmed,
further development may be
required
- This drawing is designed to
achieve the following environment
in accordance with BS 8102:2022
- DAMP PROOFING/GAS
- Client
ERIC WRIGHT CONSTRUCTION
- Project
PHOENIX IRONWORKS
- Title
PIPE AND SERVICE PENETRATION DETAILS - DAMP PROOFING