

Sika Worldwide



Sika - Your Local Partner with a Global Presence

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Certificate No. EMS 45308



Certificate No. FM 12504



Sika® Cavity Drainage Wall and Floor Systems



Innovation & Consistency | since 1910

Sika® Cavity Drainage System

Introduction

Sika® Cavity Drainage System creates a secondary internal wall and floor to control water after it has penetrated the structure. Utilising a high density polypropylene internal drainage membrane, the system is installed loose laid in flooring applications and attached to the wall with surface plugs in vertical installations. The system directs penetrating water into a drainage system and a collection sump before using a pump to discharge water from the building. Most suitable for sites where a bonding system cannot be used, cavity drain provides protection from the ingress of water, vapour and gases. Suitable for above and below ground usage.

Typical Uses

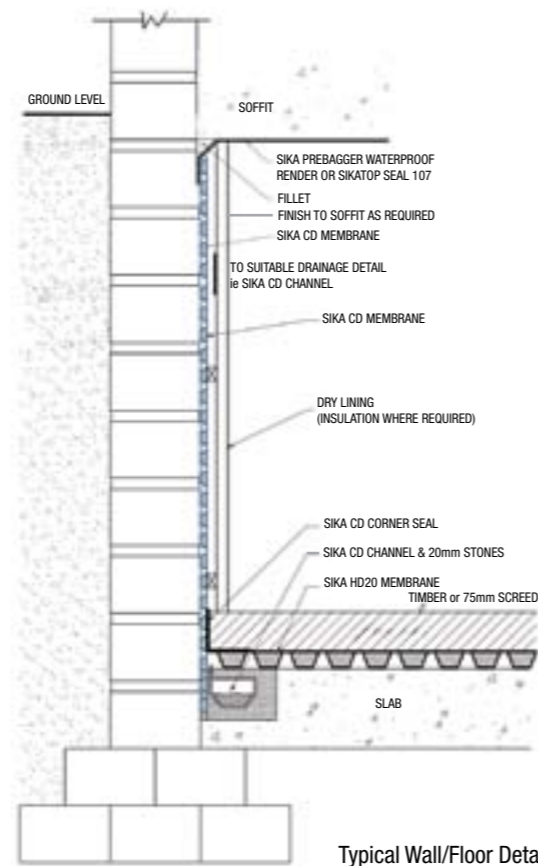
Sika® Cavity Drainage membranes can be used where site conditions or the design of the structure make it difficult to use Sika® 1 Pre-Bagged Waterproofing System or other traditional tanking methods.

Sika® Internal Cavity Drainage membranes work on the principal of allowing water to penetrate the structure, collect it and manage it into a suitable drainage system for disposal. The membrane are fixed to the walls using special plugs with minimum surface preparation required to the substrate. Once the membrane is has been fitted, wall surfaces can be dry lined or plastered and the floors can be screeded.

Design Considerations

Sika® Cavity Drainage System can be used when designing Type C Structures (as classified by BS8102:1990) and when installed will provide levels of protection required for Grade 1, 2, 3 and 4 Basements.

Irrespective of the conditions at the design or installation, BS 8102 says one must assume hydrostatic pressure is going to occur at



Typical Wall/Floor Detail

some time during the lifetime of the basement. This means that some form of water removal system must always be fitted with the Sika® Cavity Drainage membrane in below ground structures.

On flat soffits Sika® 1 Pre-Bagged Waterproofing System should be used as Sika® Cavity Drainage Systems cannot be used.

Specifications

In accordance with NBS specification J40 (clause 290) or contact Sika's technical department for further assistance on 01707 394444 or email: technical@uk.sika.com. Installation Guidelines are available from our Technical Department also.

Durability

Sika® Cavity Drainage membranes all have BBA approval, which state that Under Normal conditions the Sika® Cavity Drainage membrane will provide an effective barrier to the transmission of water and water vapour for the life of the structure.

Sika® Cavity Drainage System Product Range

Sika® Cavity Drainage Membranes:

- Sika® Standard Drainage Membrane - a 5 mm polypropylene cavity drain membrane suitable for dry lining.
- Sika® HD 20 Membrane – a high-density polyethylene, high capacity cavity drainage membrane, principally used for floors.
- Sika® Plaster Drainage Membrane – a 5 mm high-density polyethylene cavity drain membrane suitable for over plastering.

Sika® Drainage Products:

- Sika® CD Pump Kit (single sump & pump kit with alarm)
- Sika® CD Battery Back-Up Kit
- Sika® CD Channel
- Sika® CD Channel Outlet – for discharging from channel into sump
- Sika® CD Channel Jetting Point - to help maintain the drainage system

Sika® Fixing and Sealing Components:

- Sika® Masonry Plug
- Sika® Plaster Plug
- Sika® CD Rope
- Sika® CD Tape
- Sika® CD Plaster Tape
- Sika® CD Corner Seal

Full technical data can be obtained from our Data sheets and Sika® Cavity Drainage Installation Guidelines.

Other Waterproofing Solutions

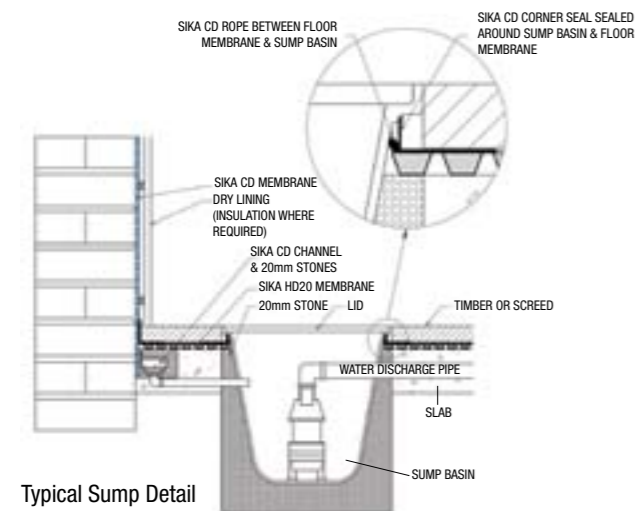
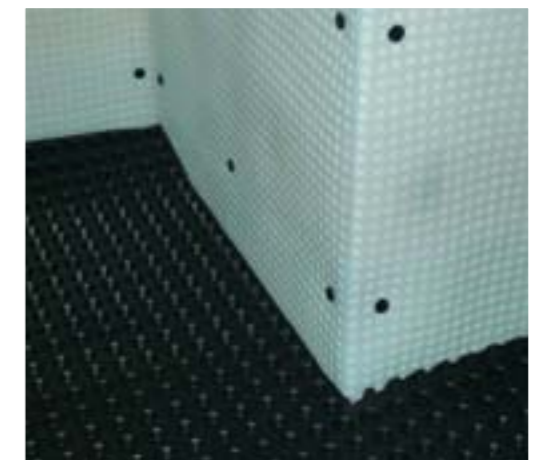
- Sika®-1 Pre-bagged Waterproofing System
- Sika® Damp-proofing Slurry
- Sika® Waterstopping Injection System

Sika Services

The specification detailing and product selection is critical to ensure the long-term success of the project. Sika therefore provide a range of support services to assist the specifiers, contractors and architects in line with BS 8102 -2009 recommendations.

These services include:

- A technical advisory department, on-site support and after sales service
- Detailed assessment of project and performance criteria
- NBS specification clauses
- Complete material data, installation guidelines, health and safety information and where appropriate maintenance schedules
- Specification service
- The Training Academy, to ensure internal staff, contractors, clients and specifiers have a full understanding of systems



Typical Sump Detail

