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RIW CAVITY DRAIN R7

Cavity Drain R7 is manufactured from 0.5mm translucent high density polyethylene with studs approximately 7mm high.

Other systems are available for specific uses, refer to Typical Uses inside.

BENEFITS

- ┆ Easy to install
- ┆ High drainage capacity
- ┆ High factor of safety
- ┆ High compressive strength
- ┆ Chemically resistant
- ┆ Can be applied to wet substrates

APPLICATIONS

- ┆ Basement and Sub-structures

APPLIED TO

- ┆ Concrete
- ┆ Masonry

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RIW CAVITY DRAIN R7

TYPICAL USES

Cavity Drain R7 is used in situations where site conditions or structural design make it difficult or impossible to use traditional tanking methods. Cavity Drain R7 is used to collect water entering the structure and channel it to a sump or collection point for disposal (see details).

Cavity Drain R7 is suitable for use on floors and ceilings, please consult RIW for further information/guidance.

When designing Type C structures (drained) protection, as classified in BS 8102: 2009, the product applied correctly, is capable of providing the levels of protection required for Grade 1, 2 & 3 basements.

The product can also be used in conjunction with Type A or B protection where additional combined protection is required.

Other systems available are:

Cavity Drain R20 - suitable for use on floors and vertically where a larger drainage capacity system is required.

Plaster Drain - suitable for use where walls are to be finished with a plaster or render.

PERFORMANCE & COMPOSITION

Form	HDPE profiled sheet
Colour	Translucent
Thickness	0.5mm
Stud height	6.5mm
Roll size	2.07m* wide x 20m long
Weight	0.48kg/m ²
Laps - Side	70mm
- End	200mm
Maximum drainage capacity	3.8 litres/sec/metre length
Working temperature	-10°C to 60°C
Maximum compressive strength	150kN/m ²

* Includes dome free area for overlapping rolls.

The above performance figures are typical values and should not be considered a product specification.

DURABILITY

Subject to normal conditions of use Cavity Drain R7 will provide an effective barrier to the transmission of water and water vapour for the life of the structure.

SPECIFICATION

J40-Sheet Tanking/Damp Proofing in accordance with NBS Clause 290. Please consult RIW for further information.

INDEPENDENT AUTHORITY

Cavity Drain R7 has been awarded British Board of Agrément Certificate No. 05/4232, covering its use on walls, floors and ceilings above and below ground.



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EN 13967:2012 & EN 13984:2013 High performance damp proof ventilating and drainage sheet and ventilating and draining vapour control layer.

Reaction to fire:	Class F
Tensile strength properties (Minimum)	
MD	340 N/50mm
CMD	225 N/50mm
Resistance to static loading:	Pass at 20kg
Resistance to impact:	Pass at 0.85m
Resistance to tearing (Minimum):	290N
Joint strength:	55N
Watertightness: Durability	Pass at 2KPa
- After heat ageing	Pass
- After Chemical ageing	Pass
Water vapour resistance: Durability	550m +/- 25%
- After heat ageing	Pass
Durability against alkali:	Pass
Bitumen compatibility:	Degradation of 15% max
Dangerous substances	None
Resistance to deformation under load:	30% at 50 kN/m ²

ANCILLARY PRODUCTS

RIW produce a range of ancillary products for use with Cavity Drain R7 which include:

Sealing Rope - a self-adhesive rope for sealing around services, fixings etc.

Brick Plugs - a fixing plug for vertical fixing of the Cavity Drain.

Overtape - a self-adhesive tape used to seal over joints, when necessary.

Sealing Tape - a self-adhesive tape for sealing between flanged overlaps.

Aqua Channel - an internal peripheral drainage channel for use at the base of the wall.

Sump and pumps also available; see separate data.

CONSTRUCTION

GENERAL

All construction should conform with the Building Regulations, Codes of Practice and British Standards in current use at the time the building is being constructed. In particular it is recommended that reference is made to BS 8102: 2009.

PREPARATION

All surfaces: Should be firm, and free from obstructions, which would hamper free drainage. Defects that might result in unacceptable leaks should be remedied before the system is installed.

Concrete surfaces: Should be treated with Cementseal Primer to reduce the risk of leaching of free lime or mineral salts, and to avoid the obstruction of the drainage system.

APPLICATION

Vertical: Installation of the Cavity Drain R7 is ideally commenced at the top of the construction. The lower sheet is always positioned in front of the upper sheet, to form a 'weathered lap'.

Fixings: Should be made, using Brick Plugs, into 10 mm diameter drilled holes to a minimum depth of 75mm (use punch). Fixings are sealed with Sealing Rope, which is packed around the brick plug before positioning. The fixings are normally required at 1.0m centres, and should be staggered. Fixings are also required immediately either side of the laps.

Overlaps: Flanged edges should always be positioned in front of, and overlapping, the previously installed membrane width. Laps with flanged edges are sealed using Sealing Tape, and laps without flanges are interlocked with the outer edge covered with Overtape.

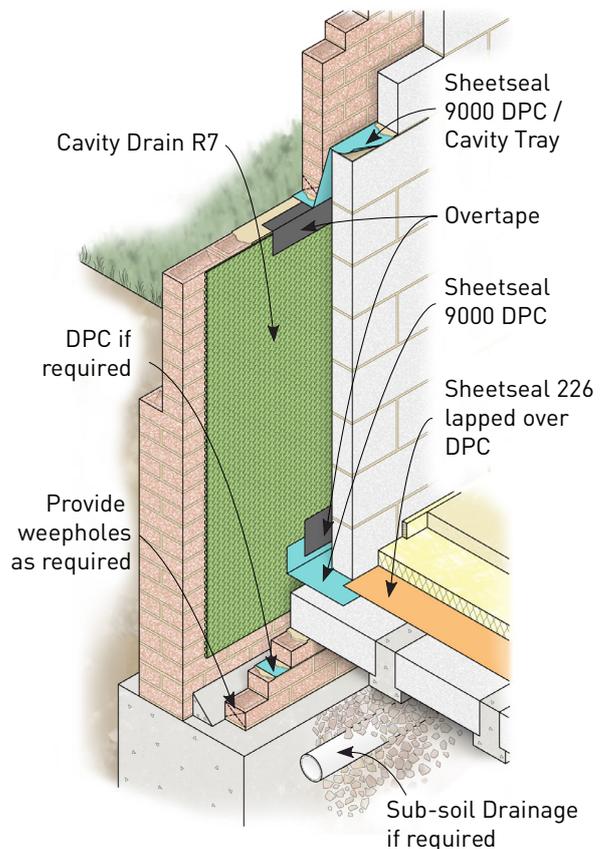
Wall/floor junctions: Incorporate Aqua Channel as per typical details.

Service penetrations: The Cavity Drain R7 should be cut so it forms a butt joint against any projections, and then sealed with Sealing Rope. The surface should then be cleaned prior to application of Overtape around the penetration.

Protection: Vertical surfaces should be protected, by dry lining or by building an inner masonry wall against the Cavity Drain R7. Inner masonry walls may be tied back into the Cavity Drain R7, by fixing into the Brick Plugs. A similar method can be adopted should a 'dry lining' system be required.

Any damaged areas must be repaired, by cutting a patch at least 200mm larger than the damaged area. The patch is then overlaid and the edges sealed using Overtape as elsewhere.

Drainage: A drainage system of suitable capacity should be provided to collect and dispose of the infiltrating water. The system must be maintainable and inspected at regular intervals.



Suspended floor detail

SUPPLY

AVAILABILITY

All products can be obtained through Builders Merchants or approved stockists. A list of approved stockists is available from RIW's offices.

PACKAGING

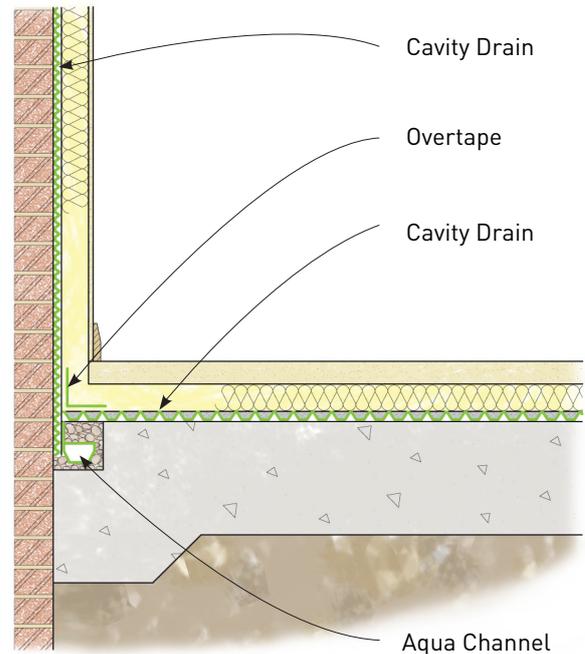
Cavity Drain R7	2.07m wide x 20m long
Brick Plugs	Box of 100
Sealing Rope	10mm wide x 5m long rolls
Sealing Tape	30 x 2mm x 20m long rolls
Overtape	150mm x 10m long rolls
Aqua Channel	2m Lengths

STORAGE

There are no special requirements but rolls should be kept upright under cover and protected from extremes of temperature.

TECHNICAL SERVICES

The Technical Department is available to advise on individual projects and to prepare or assist in the preparation of specifications and drawings. A list of experienced applicators of our materials is available from RIW's offices.



Wall Floor Junction with Dry Lining System

The information in this literature was correct at the time of going to press. However, we are committed to continually improving our products and reserve the right to change product specifications.

For the latest information, please consult RIW. Conditions of use are beyond our control, therefore we cannot warrant the results to be obtained.

RIW

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