

# Driving rain tests with cavity filled brick walls

Danmarks Tekniske Højskole - Full



Description: -

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Cinebooks

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Notes: Reprint of RILEM/CIB symposium : Moisture problems in buildings, Helsinki, 1965.

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## ‘Design out’ moisture problems in new cavity walls by NOT using full

This is a drained cavity wall and not a rain-screen wall which is a slightly different animal! This allows leaking water to easily escape through the weep holes.

### NCPTT

It can take two or three days to inject a house with either of these materials, and the cost is likely to be several hundred pounds, so they are not favoured by the government-funded schemes which budget on around £100 per house for mineral-wool fibre. Roof Systems Low-slope roof assemblies provide many examples of the perfect barrier approach. If the roof deck is covered with a water resistant roofing paper, as is often the case, this provides a third layer of drainage.

### Full

For moderate zones you need a 440mm-thick wall to have a sporting chance of keeping out moisture. This is enough pressure to force moisture into cracks of any size. Nevertheless, the success of these designs rests on the perfection of the protected membrane layer.

### Penetrating Damp (Rain Penetration in Walls)

This is where we could use drainage mats which are typically made from a random entangled net material.

### BSD

Figure 6 : This old enclosure controls rain penetration by storing moisture in many layers of masonry. Remember, the lower the U-value the better the result! The flashing is usually designed as a perfect barrier exposed to small hydraulic head — any penetration, crack, or unsealed lap joint can lead to a rain control failure. In summary, it can be concluded that the rain control of a perfect barrier enclosure is dependent on a single layer resisting all inward water transmission, a mass or storage system relies on sufficient storage capacity, and a drained-screened system depends on drainage at other than the outside surface.



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