

#### Damp Control

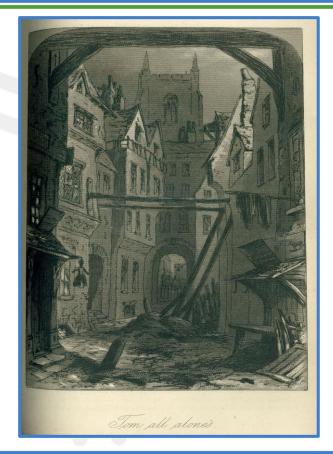






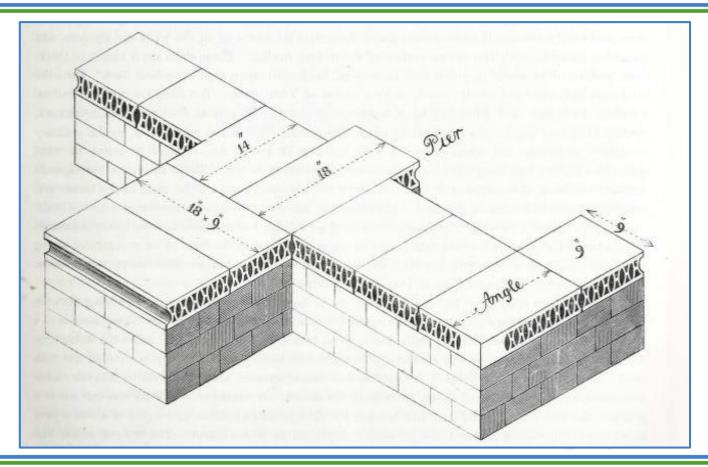
• We all know this is what started DPCs?!

• Even says so in most literature: BRE, BDPA etc...



#### Victoria Church – isle of dogs





RIBA Ordinary GM 1863

#### Downunder





Picture: Salt attack and rising damp - A guide to salt damp in historic and older buildings

#### Historic DPCs







### Do DPCs fail???

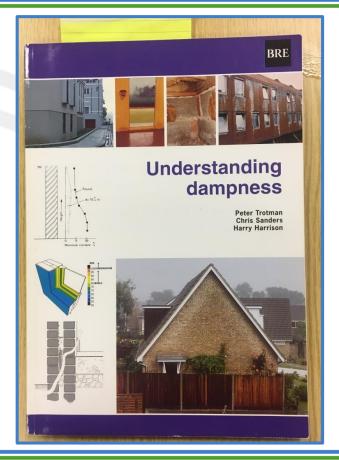




#### Do DPCs fail???

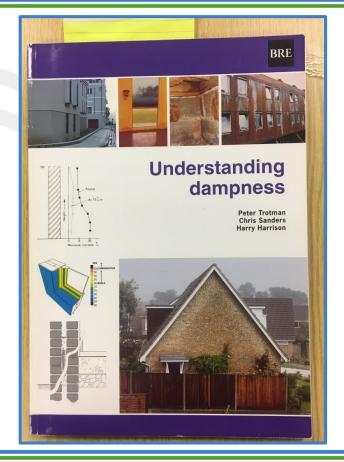


# *"If there is a physical DPC, it is unlikely to have failed".*





"Physical DPCs can fail occasionally. Particularly those formed by engineering bricks or overlapping slates, following breakdown of the mortar, bitumen felt DPCS can become brittle with age."



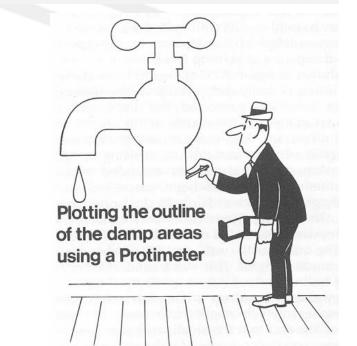


Our remedies for this have generally been a layer of asphalte throughout the thickness of the walls, "sheets of lead," a course of slates bedded in cement, and sometimes compounds of gas-tar, pitch, sand, &c.; but even when we have used all care in specifying any of these things, how frequently do we find damp still rising, and discover, when too late, that the lead had been stolen, or that the slates had been previously used in a roof and have nail holes in them; that perhaps the clerk of the works was just absent, and a few slates were, by chance, omitted, or they had no lap. But even sup-



Rising Damp was invented by the chemical industry. In a particular chemical industry boardroom in 1962 actually. When the first damp meter was invented





### The first chemical DPCs?

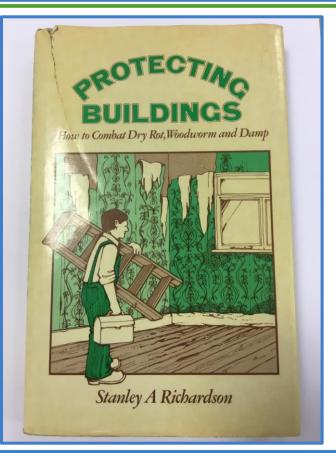


- English heritage suggest 1940's – 50's by Doctor Hurst of imperial college London – called Actane – based on a natural latex rubber.
- Based on the water repellence of beetle shells



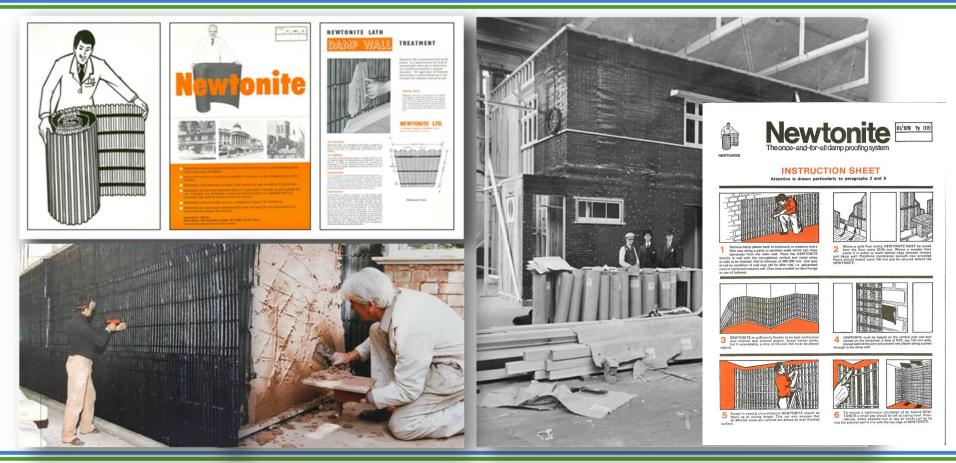


- Claims they started to develop a water repellent in 1935 – using paraffin wax
- In 1938 was adapted to provide vertical and horizontal dpcs by drilling



#### Newtonite





• In about 1908 Achille Knapen an Brussells Engineer, invented the knapen tube

 Building Research Station (now BRE) tested in 1930s proved didn't work





#### **Doulton Tubes**







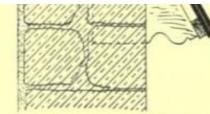


Fig. 682 -- Section showing a Method of Covering an Old Wall with Weather-tiles.

#### adopted.

Where the damp rises from the ground into the wall, it will usually be found that a dampproof course has not been inserted. The radical remedy would be to cut out the walling below the ground-floor and above the external ground, a little at a time, and to insert a suitable damp-

course—as shown at A in fig. 679,—and make good the walling with stone or brick, as the case may be, bedded in good cement mortar. This is, of course, a very expensive operation, and house-owners are not always willing to sanction it. Drainage of the subsoil and excavation of the external ground to as great a depth as possible will do something to improve matters, and an external rendering of cement mortar from the foundation to the ground-floor will also tend to prevent the ground-water entering the wall. Sometimes the base of a wall is damp in consequence of rain-water pouring from the roof and splashing up from the ground on to the wall; when this is the case, an eaves-trough provides a simple remedy.



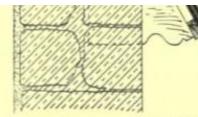


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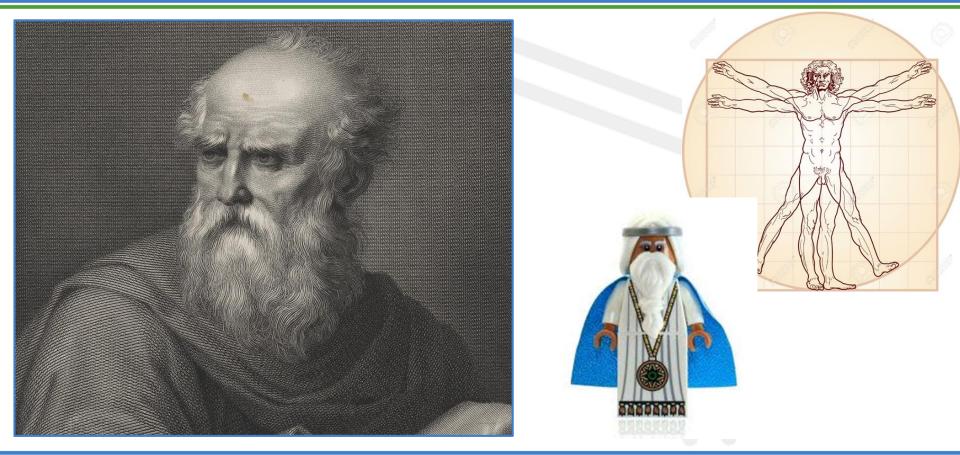
#### What did the Romans ever do for us?





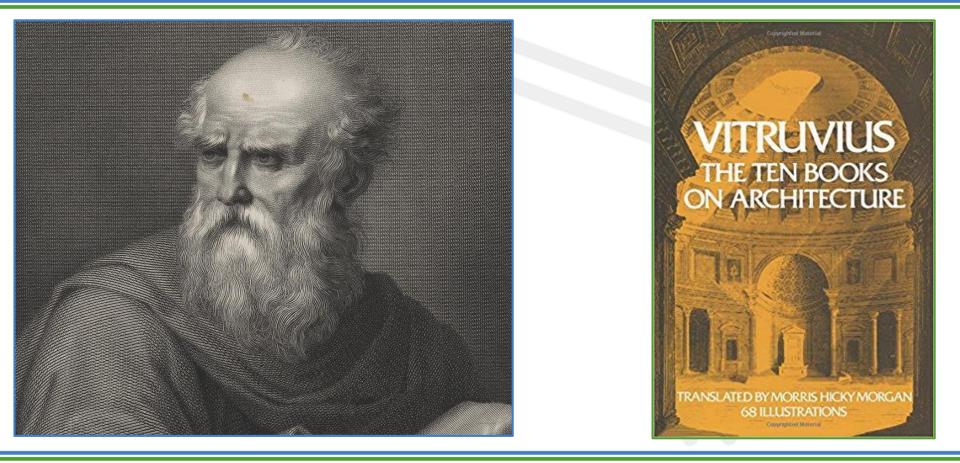
#### Vitruvius





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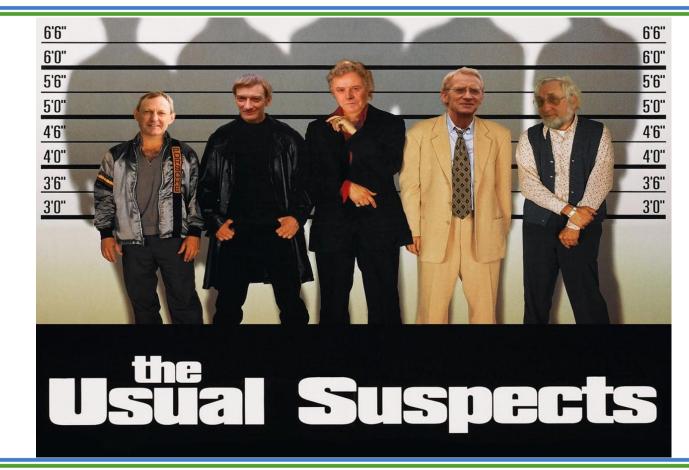
#### And change is still occurring.....





#### Thanks to.....







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