

# Long term unrestrained expansion of test bricks.

## Building Research Establishment - Thermal Expansion and Contraction of Slabs on Grade



Description: -

-Long term unrestrained expansion of test bricks.

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Current papers -- CP 16/73.

Moisture expansion of structural ceramics -- 3Long term unrestrained expansion of test bricks.

Notes: Reprinted from Transactions and Journal of the British Ceramic Society, vol. 72, no. 1, January 1973, pp 1-5.

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### Clay Brickwork

To me this looks like settlement. The explanation is that the microstress peaks relax with age, which reduces the number of creep sites and thus the rate of bond breakages.

### Thermal Expansion and Contraction of Slabs on Grade

On the inside, naturally, the bricks are pushing outward an inch at the separation joint. Mortar failure is often due to the use of the wrong type of mortar for the application.

### Clay Brickwork

However, as discussed in Chapter 9, that is not always true as can be seen in the case of the Waingroves unit, which had a much higher strength and much lower water absorption and initial suction rate. The former accelerates creep if the temperature is increased, and the latter decelerates creep. They should always be stacked on planks.

### Inspecting Brick Veneer in Residential Construction

There is also a bit of settlement. BS 5628-2: 2005 method From Table 5.

### Clay Brickwork

Minor spalling is mostly a cosmetic issue. Furthermore, it is somewhat illogical to paint bricks. Cracking and spalling can also occur in the cladding and brick slips when they are rigidly fixed to the end of the concrete slab.

### Thermal Expansion Cracks in Brick Walls & Foundations

Any case the repair may require that the present material is removed and is replaced with a new flexible masonry sealant See for some examples of suitable products. OSHA also has its own list of requirements regarding the stacking and storage of bricks that does apply to residential



construction. However, in the cases of MH 1st and Heather brickwork, enlarged expansions were not totally eliminated.



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