

Expansion Joints In Buildings Technical Report No 65

Expansion Joints in Buildings - Vulcraft

Expansion Joints: Where, When and How

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Federal Construction Council Technical Report No. 65, Expansion Joints in Buildings, published by the National Research Council (NRC) in 1974, is an excellent reference on thermal expansion in buildings, determining when potential thermal movement must be addressed, and the design of expansion joints where required. The report recommends a

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Typically, these joints isolate a frame into a series of segments with enough joint width to allow the building ' s thermal expansion. By isolating the segments, expansion joints also provide relief from cracking due to contraction and therefore act in a dual role—an expansion and a contraction joint. Expansion joints are expected to fulfill certain criteria like: Having high load-carrying capacity (e.g. vehicle wheels load) Water tightness in the joint and its connections at each side to ...

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Expansion joints vary in width from half an inch to one inch in width. Normally, expansion joints in masonry walls are provided every 125 feet and in steel or concrete structures, or in roofs, joints are placed every 200 feet or so. They should be located at junctions of separate structures, as well as in stairwells and elevator shafts. 5.

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