



## Expansion joints for bonded construction

Bonded construction requires expansion joints. These joints are designed to absorb temperature stresses on the surface and to reduce the amount of cracks. The emergence of cracks in the joint area as well as within fastening elements caused by thermal stresses cannot be completely avoided with expansion joints. The arrangement of the expansion joints depends on the stone formats as well the geometry of the surface and usually has a distance of between 4 and 8 meters | 4.4–8.8 yd. The larger the stone formats, the less space between the expansion joints. The minimum joint width of the expansion joints is 10 mm |  $\frac{3}{8}$ ". Expansion joints from the substructure and superstructure need to be incorporated right up the joint. Regardless of the joint arrangement, expansion joints are required in all areas adjacent to buildings or towering components.

### Expansion joints can be manufactured according to the ROMEX® system and the ZTV Fug-StB:

1. The lower joint filling is prepared using joint tape/joint round cord/non water absorbant round foam profiles. These are fixed at 10–20 mm |  $\frac{3}{8}$ – $\frac{3}{4}$ " below the stone surface.
2. **Onto** this a permanent elastic pavement jointing mortar is compacted and then levelled off.
3. In order to match the expansion joints visual appearance with the overall jointing, grab „a handful“ of jointing sand, before it is mixed with the synthetic resins and sprinkle it over the compacted jointing mass. Lightly press the sprinkled sand into the joint and carefully brush off any excess. Slight, product-related color deviations will even out over time.
4. Any cracks that may occur over the course of time can be repaired using the same method.

In general, connection and expansion joints should be filled using an elastic jointing mortar material according to DIN 18540. The color of the elastic jointing material should be matched as far as possible to the selected ROMEX® paving mortar. For natural stones please check compatibility beforehand. Please take note of the jointing mass manufacturer's instructions. According to DIN 52460 the jointing mass used in expansion joints should be regularly checked and renewed if necessary to avoid subsequent damage. This is not part of the guarantee.

### Expansion joints in paving stone and slab coverings:



### Expansion joints in areas strengthened with grit or gravel:

