NBEHDF Heavy Duty Series - No Bump

Flexible Expansion Joint Cover

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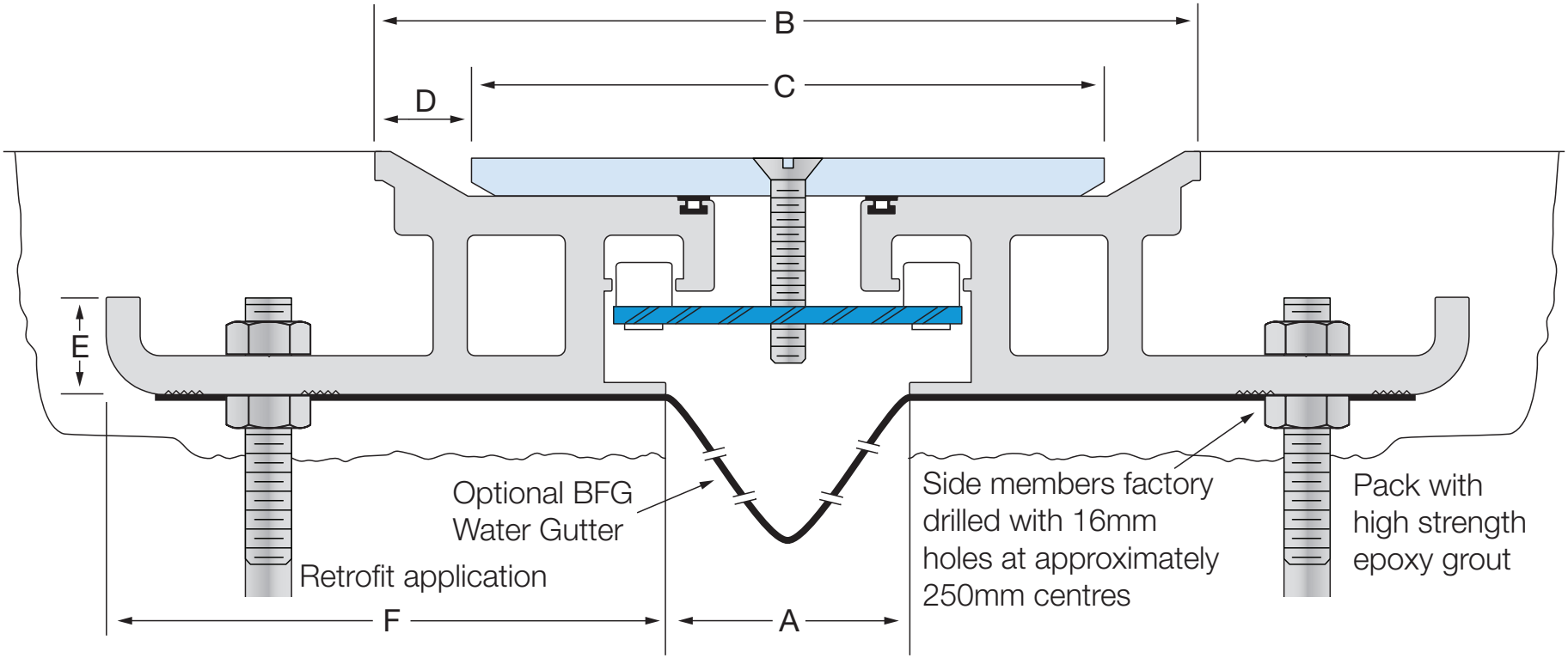
Illustrated: NBEHDF-50 Scale: Approx. 75% full size
All dimensions are to be verified before construction

Verified By..... Date.....



Cover plate loadings indicated are calculated under vehicular conditions, based on a 150mm diameter load circle, with a maximum allowable deflection of 3.2mm when calculated in the nominal indicated joint width position.
The assumed plate length is 1000mm, i.e. loads applied no closer than 500mm to end of the plate.
Loads are presumed to be for one tyre or one foot and are static, not dynamic, nor impact, the 150mm load circle is considered quite small for the loaded surface of a vehicular tyre, but some fork lifts and vertical lift devices will have surface load prints of this size. Loads have been calculated using a infinite fatigue life calculation, taking into account, stress and high cycle loading. Figure indicated are not ultimate strength of system failure figures.

Stainless Steel Code	A	B	C	D	E	F	Movement	Total Available Movement	Overall Depth	Cover Plate Thickness	Maximum Coverplate Point Loading in kg*
NBEHDF-50	50	170	130	20	20	115	+30/-6mm	36mm	50mm	8mm	2310
NBEHDF-75	75	195	155	20	20	115	+30/-6mm	36mm	50mm	8mm	1440
NBEHDF-100	100	220	180	20	20	115	+30/-6mm	36mm	50mm	10mm	1580
NBEHDF-150	150	270	225	20	20	115	+30/-6mm	36mm	50mm	10mm	1120

All dimensions are in millimetres.

Exterior/Interior use.

All mechanical expansion joint fixings by others.

Aluminium embedded members with stainless steel cover plate.

The centering bar consists of Extra Heavy Duty elongated spherical rods fastened at opposite ends of a flat spring steel bar. The bar is positioned diagonally across the joint opening with the spheres inside the extruded cylindrical tracks. This unique concept allows for increased rotational movements and maintains constant spring tension at the centre of the cover plate. This greatly reduces the stresses on the embedded anchor sections and the surrounding concrete slabs.

Design subject to change without notice.