

MEMO 504
BSF - TOLERANCESDato: 17.04.2013
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PLANNING

BSF - TOLERANCES

VERTICAL AND HORIZONTAL PLACEMENT OF UNIT IN COLUMN AND BEAM:

The vertical deviations relative to the theoretical exact alignment of the beam and column units shall be consistent with the required tolerances for the final assembled construction. The deviation on positioning of the units in the mould will influence directly on the final level of the beam. The allowable transverse horizontal deviation is based on the transverse clearances in the column unit and beam unit.

For normal conditions the allowable deviations on the placement of the BSF beam and column units are:

Vertically: $\pm 10\text{mm}$.
Transverse horizontally: $\pm 2,5\text{mm}$. (BSF1100: $\pm 5\text{mm}$)

I.e. the tolerance is the sum of maximum allowable deviation between the beam and the column units.

JOINT WIDTH/GAP - CANTILEVERING OF KNIFE:

The planned joint width (gap) is $20\text{mm} \pm 10\text{mm}$, see Figure 1.

The maximum cantilevering of the knife to the load point is the nominal value for each unit (given in Memo 521) $+10\text{mm}$. Thus, if the gap is 30mm , the knife shall be pushed out an extra 10mm . This will ensure a fixed load point in the column.

LOCATION OF ANCHORING STIRRUPS IN FRONT AND BACK OF THE UNIT:

The nominal location of the reinforcement is given in Memos 522a-e. The tolerance on location is $\pm 5\text{mm}$, see Figure 1. (COG=centre of gravity)

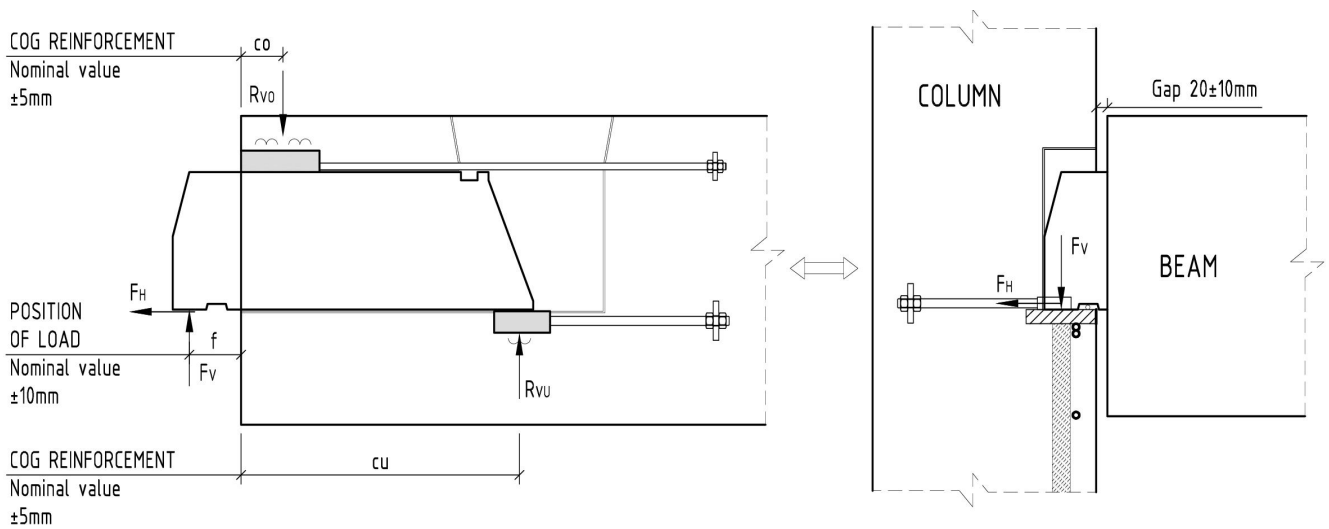


Figure 1: Tolerances on anchoring stirrups and gap.

REVISION HISTORY	
Date:	Description:
17.04.2013	First Edition (for ETA)
26.11.2013	Included comments from external review
27.02.2015	Included a nut on the front side of the steel plate anchoring the threaded bars. (To ensure correct position of the plate when casting the concrete).
23.05.2016	New template
08.11.2018	Included BSF1100