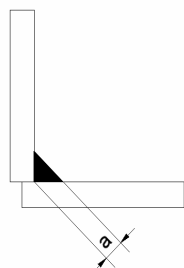


## Standard reinforcement for column unit BSF

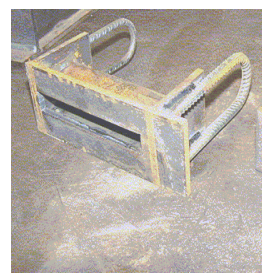
When it's welded on both sides of the reinforcement bar, one can choose a weld size "a" ( see drawing 1 below, how it is done in Norway) 0,3 times the diameter on the reinforcement bar. Necessary welding length is 4 times the diameter on the bar.(ex. For a Ø10 bar; weld size "a" = Ø10 mm x 0,3 = 3, welding length on both side Ø10 mm x 4 = 40 mm)



Drawing 1



The picture shows a two sided unit of the column unit.



Example of reinforcement for a single column unit. Use of U - bars

Standard reinforcement for the column unit BSF		
Column unit	One- sided, U- bar*	Two- sided*
BSF 150/20	Top 1 - Ø8 mm Bottom 1 - Ø10 mm	1 - Ø10 mm bar 2 - Ø10 mm bar
BSF 200/20	Top 1 - Ø8 mm Bottom 1 - Ø12 mm	1 - Ø10 mm bar 2 - Ø12 mm bar
BSF 200/30	Top 1 - Ø10 mm Bottom 1 - Ø12 mm	1 - Ø12 mm bar 2 - Ø12 mm bar
BSF 200/40	Top 1 - Ø12 mm Bottom 1 - Ø16 mm or 2 - Ø 12mm	1 - Ø16 or 2 - Ø12 mm bar 2 - Ø16 mm bar
BSF 200/50	Top 1 - Ø12 mm Bottom 1 - Ø16 mm or 2 - Ø12 mm	1 - Ø20 mm bar 2 - Ø16 mm bar
BSF 250/50	Top 1 - Ø16 mm Bottom 1 - Ø16+1- Ø12 mm or 3-Ø12 mm	1 - Ø20 mm bar 2 - Ø20 mm bar

Length of the U- bar is the cross section of the column – 40 mm

\* The shown reinforcement in the table above, is the reinforcement that is necessary to anchor the unit to the column. Check also for spalling stress under the unit.( Often this is done by spreading the main stirrups in the column under the BSF column unit.) See section 3.4 in memo 22a-f.