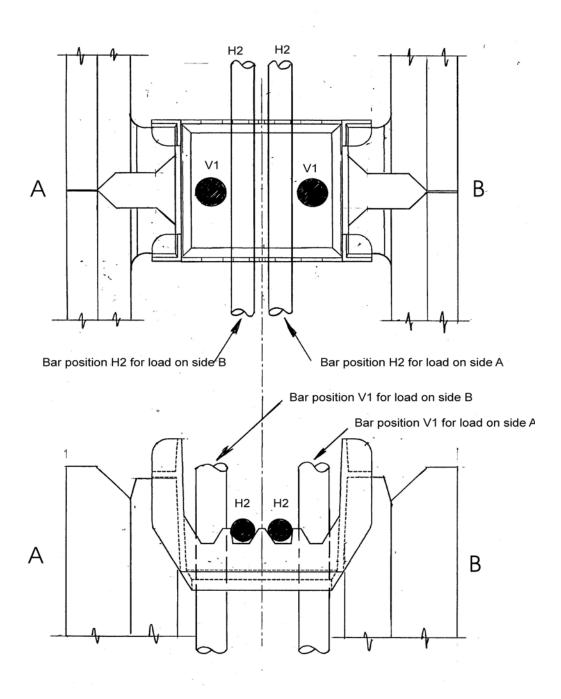
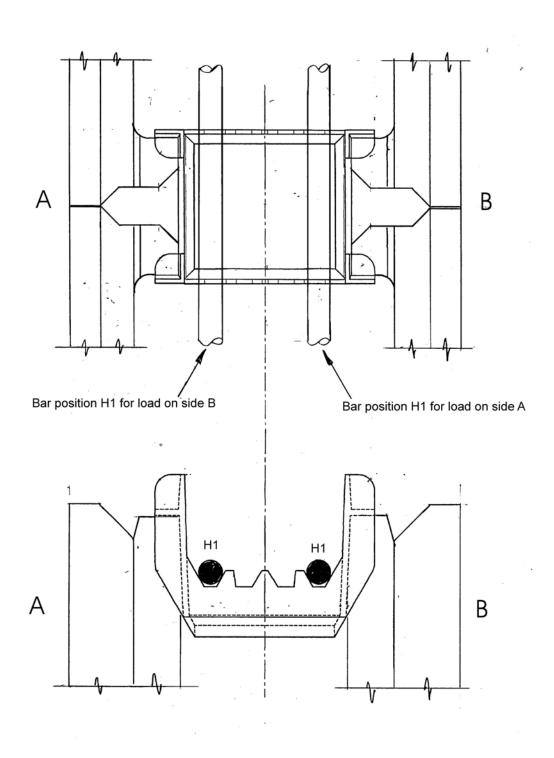
DESIGN TABLES - WALLS IN BENDING

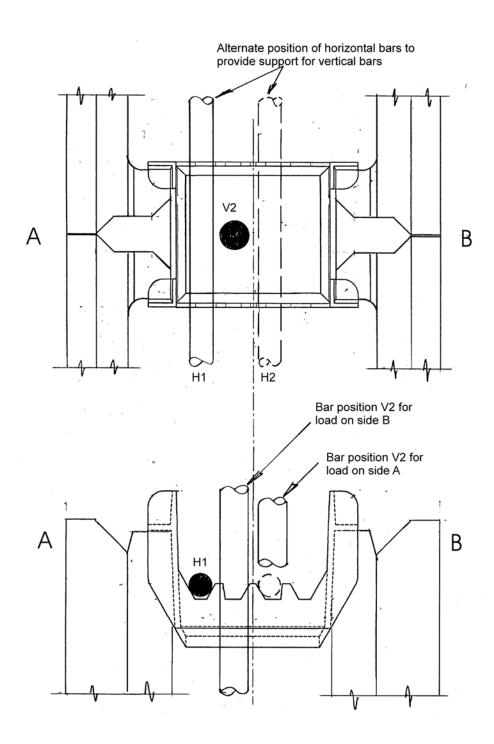
The location of all reinforcement in *mortarless* walls is controlled by the notches in the connectors that support the horizontal bars. The 200 mortarless connectors have four notches, and the bar positions are described as V1, V2, H1 and H2 as shown in the following skecthes. Positions V1 and H1 are located furthest from the neutral axis, while positions V2 and H2 are located closest to the neutral axis. These positions are referred to in the moment capacity tables below.



Reinforcing bar positions V1 and H2 for 200 mortarless



Reinforcing bar positions H1 for 200 mortarless



Reinforcing bar positions H1, H2 and V2 for 200 mortarless

Table BR-200U:

200 MORTARLESS WALL - UNCHAMFERED BLOCKS BENDING MOMENT CAPACITY M_d (kNm/m) horizontal bending vertical bending Block Grade & bars in position bars in position bars in position bars in position Ast V1 V2 H1 H2 Reinforcement d = 112d = 93d = 114d = 96mm²/m **Grade 15 blocks** * * T12-200 550 17.1 12.7 18.7 13.3 T12-400 11.0 275 9.3 11.6 9.5 T12-600 183 7.8 6.6 8.2 6.8 T12-800 5.2 138 6.0 5.1 6.3 T12-1000 110 4.8 4.1 5.1 4.2 T12-1200 4.0 3.4 4.2 3.5 92 T16-200 17.1 12.7 1000 T16-400 500 17.1 12.7 T16-600 12.9 10.7 333 250 T16-800 10.2 8.6 Grade 20 blocks T12-200 * 550 19.6 15.7 20.8 16.4 T12-400 11.4 12.0 275 9.6 9.9 T12-600 183 8.0 6.8 8.4 6.9 T12-800 6.1 5.2 6.4 5.3 138 4.9 T12-1000 110 4.2 5.1 4.3 T12-1200 92 4.1 4.3 3.6 3.5 T16-200 21.1 15.7 1000 T16-400 18.4 15.1 500 T16-600 333 13.4 11.3 T16-800 250 10.5 8.9

i.e.
$$M_d = (0.4 f_k b d^2) / \gamma_{mm}$$
 maximum

^{*} indicates that M_d is limited to maximum permissible as specified in BS 5628-2 Clause 8.2.4.2.1