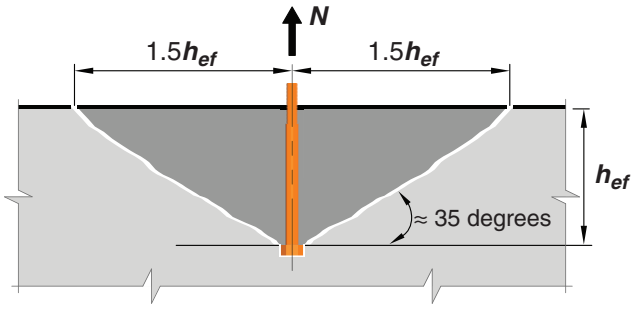
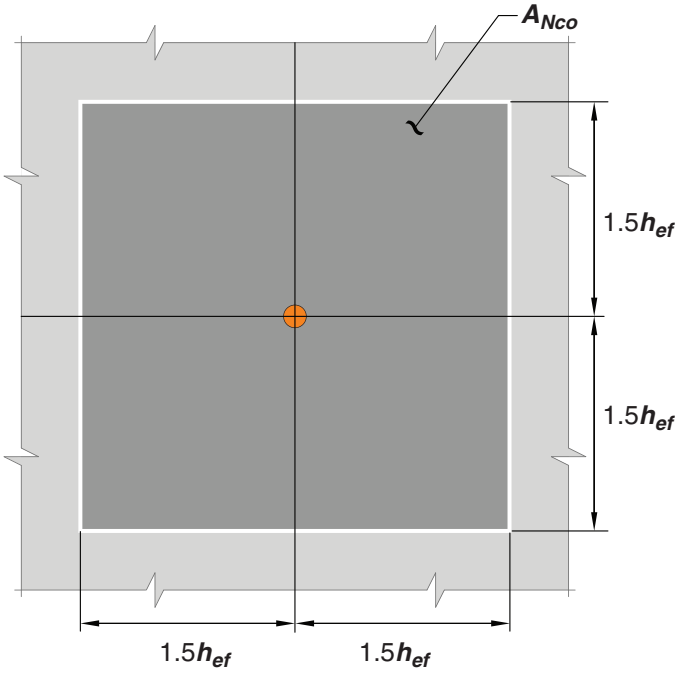
CODE

The critical edge distance for headed studs, headed bolts, expansion anchors, screw anchors, and undercut anchors is $1.5h_{ef}$



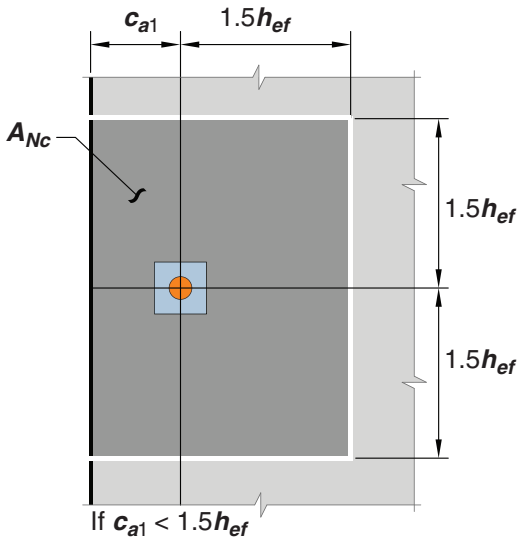
Section through failure cone



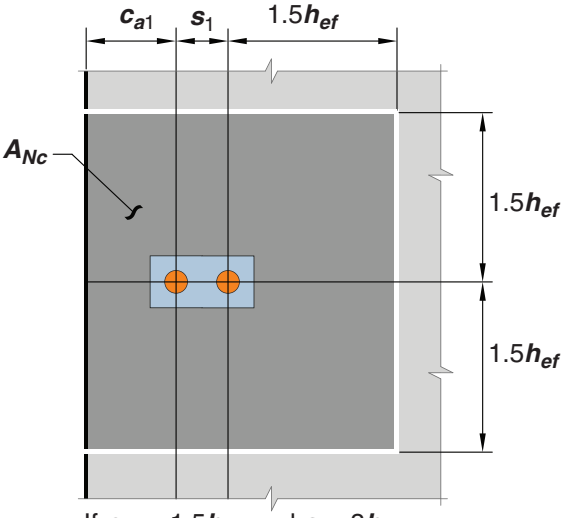
Plan

$A_{Nco} = (2 \times 1.5h_{ef}) \times (2 \times 1.5h_{ef}) = 9h_{ef}^2$

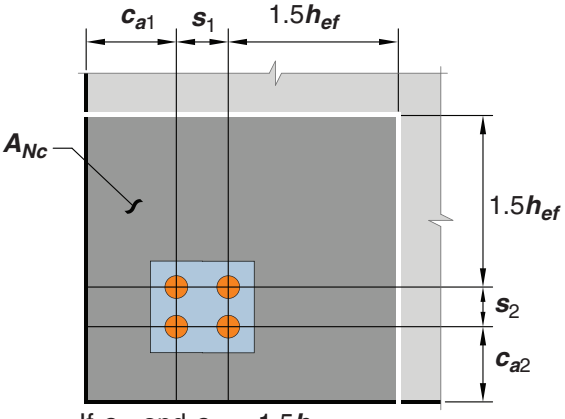
COMMENTARY



If $c_{a1} < 1.5h_{ef}$
$A_{Nc} = (c_{a1} + 1.5h_{ef}) \times (2 \times 1.5h_{ef})$



If $c_{a1} < 1.5h_{ef}$ and $s_1 < 3h_{ef}$
$A_{Nc} = (c_{a1} + s_1 + 1.5h_{ef}) \times (2 \times 1.5h_{ef})$



If c_{a1} and $c_{a2} < 1.5h_{ef}$
and s_1 and $s_2 < 3h_{ef}$
$A_{Nc} = (c_{a1} + s_1 + 1.5h_{ef}) \times (c_{a2} + s_2 + 1.5h_{ef})$

(a) (b)

Fig. R17.6.2.1—(a) Calculation of A_{Nco} and (b) calculation of A_{Nc} for single anchors and anchor groups.