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d.) Diagonalen.

1. $\mathcal{F}_1$ $S^0 = +62,3$
 Mauerdruck $S' = +14,8$
 Luftdruck $S'' = +36,43$

$F_n = 110,4 \text{ cm}^2$ Mauerdruckvermitt. abgezogen

$$\sigma_{\max} = \frac{S^0 + 1,43(S' + S'')}{F} = \frac{62,3 + 1,43(14,8 + 36,43)}{110,4}$$

$$= \frac{135,8}{72} = 1230 \text{ kg/cm}^2 \text{ zulässig } 1400 \text{ kg/cm}^2$$

also mürbe.

2.) $\mathcal{F}_2 = S^0 = +38,4 \text{ t}$
 $S' = +9,8$
 $S'' = +24,23$

$$F_n = 72,0 \text{ cm}^2$$

$$\sigma_{\max} = \frac{38,4 + 1,43(9,8 + 24,23)}{72} = \frac{87,0}{72}$$

1200 kg/cm^2 also mürbe.

3.) $\mathcal{F}_3$ $S^0 = +24,2$
 $S' = +7,0 (-1,5)$
 $S'' = +18,08 (-3,7)$

$$F_n = 46,8 \text{ cm}^2$$

$$\sigma_{\max} = \frac{24,2 + 1,43(7 + 18,08)}{46,8} = \frac{60,0}{46,8} =$$

1280 kg/cm^2

4. $\mathcal{F}_4$ $S^0 = +13,5$
 $S' = +5,2 (-2,0)$
 $S'' = +13,70 (-5,8)$

$$F_n = 30,0 \text{ cm}^2$$