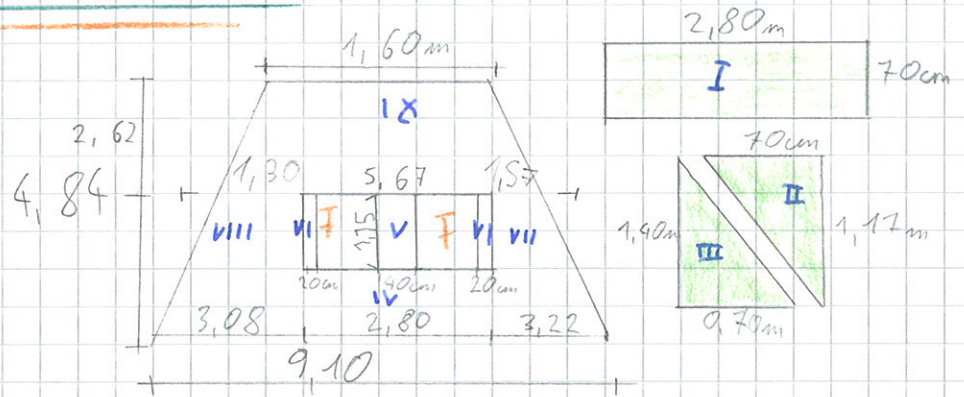


# Sicherheitshaus Nord



$$A I = a \cdot b$$

$$A I = 2,80 \cdot 0,7$$

$$A I = \underline{1,96 \text{ m}^2}$$

$$A II = \frac{a \cdot b}{2}$$

$$A II = \frac{0,7 \cdot 1,17}{2}$$

$$A II = \underline{0,41 \text{ m}^2}$$

$$A III = \frac{a \cdot b}{2}$$

$$A III = \frac{0,7 \cdot 1,4}{2}$$

$$A III = \underline{0,49 \text{ m}^2}$$

$$A IV = a \cdot b$$

$$A IV = 2,8 \cdot 1$$

$$A IV = \underline{2,80 \text{ m}^2}$$

$$A V = a \cdot b$$

$$A V = 1,15 \cdot 0,4$$

$$A V = \underline{0,46 \text{ m}^2}$$

$$A VI = a \cdot b$$

$$A VI = 1,15 \cdot 0,2 \cdot 2$$

$$A VI = \underline{0,46 \text{ m}^2}$$

$$A VII = \frac{a+c}{2} \cdot h$$

$$A VII = \frac{1,57 + 3,22}{2} \cdot 2,22$$

$$A VII = \underline{5,31 \text{ m}^2}$$

$$A VIII = \frac{a+c}{2} \cdot h$$

$$A VIII = \frac{1,30 + 3,08}{2} \cdot 2,22$$

$$A VIII = \underline{4,83 \text{ m}^2}$$

$$A IX = \frac{a+c}{2} \cdot h$$

$$A IX = \frac{1,60 + 5,67}{2} \cdot 2,62$$

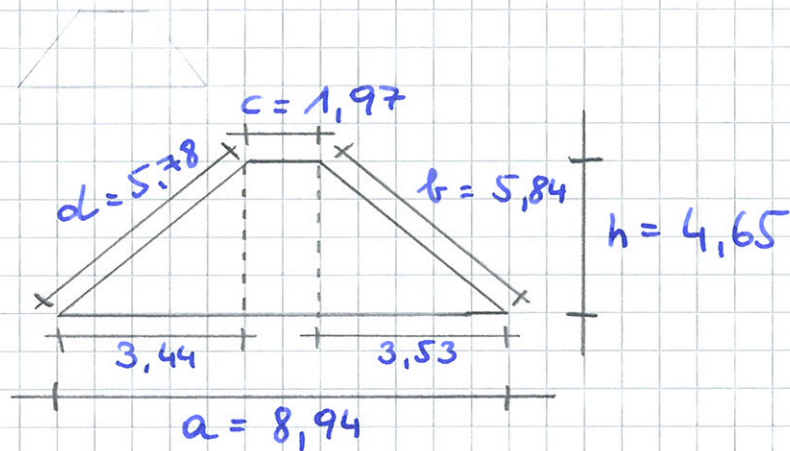
$$A IX = \underline{9,52 \text{ m}^2}$$

$$A = A I + A II + A III + A IV + A V + A VI + A VII + A VIII + A IX$$

$$A = 1,96 + 0,41 \text{ m}^2 + 0,49 + 2,80 + 0,46 + 0,46 + 5,31 + 4,83 + 9,52 \text{ m}^2$$

$$A = \underline{26,24 \text{ m}^2}$$

## Sicherheitshaus $\rightarrow$ Ausbau SÜD



### Berechnung der Fehlenden Seiten:

$$c = 8,94 - 3,53 - 3,44 = \underline{1,97 \text{ m}}$$

$$b = \sqrt{3,53^2 + 4,65^2} = \underline{5,84 \text{ m}}$$

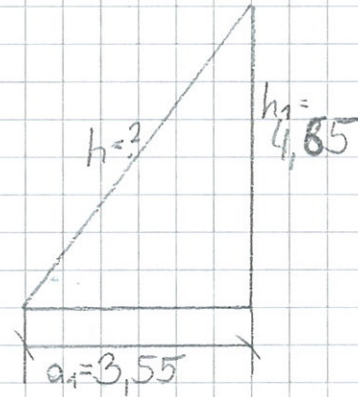
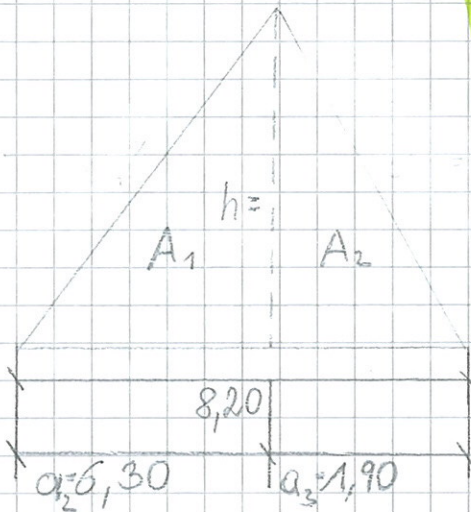
$$d = \sqrt{3,44^2 + 4,65^2} = \underline{5,78 \text{ m}}$$

### Berechnung der Fläche für Rigips anschaffung:

$$A = \frac{(8,94 + 1,97)}{2} \cdot 4,65 = \underline{25,37 \text{ m}^2}$$

Es sind  $25,37 \text{ m}^2$  Rigips zu bestellen.

# Sicherheitshaus West



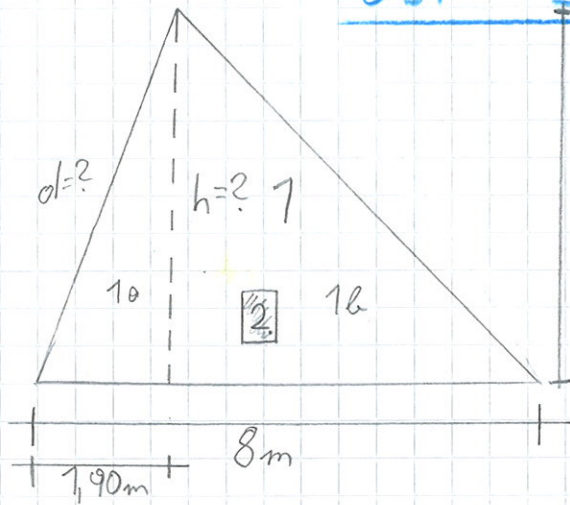
$$h = \sqrt{a_1^2 + h_1^2} = \sqrt{3,55^2 + 4,65^2} = \underline{\underline{5,85\text{m}}}$$

$$A_1 = \frac{a_2 \cdot h}{2} = \frac{6,30 \cdot 5,85}{2} = \underline{\underline{18,43\text{m}^2}}$$

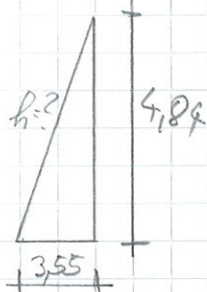
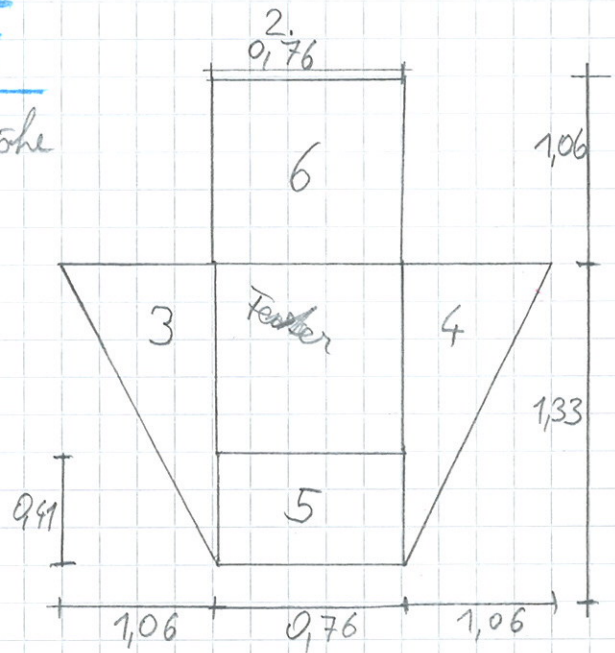
$$A_2 = \frac{a_3 \cdot h}{2} = \frac{1,90 \cdot 5,85}{2} = \underline{\underline{5,56\text{m}^2}}$$

$$A_{\text{ges}} = 18,43 + 5,56 = \underline{\underline{23,99\text{m}^2}} \sim \underline{\underline{24\text{m}^2}}$$

# Ost SEITE



4,84 Dachhöhe



$$c = \sqrt{a^2 + b^2} =$$

$$c = \sqrt{1,33^2 + 1,06^2} = 1,70 \text{ m}$$

$$h = \sqrt{a^2 + b^2} = \sqrt{3,65^2 + 4,84^2} = 6 \text{ m}$$

$$d = \sqrt{a^2 + b^2} = \sqrt{1,9^2 + 6^2} = 6,29 \text{ m}$$

$$+ \begin{cases} \text{Fläche 3+4} = \frac{a \cdot b}{2} \cdot 2 = a \cdot b = 1,06 \cdot 1,33 = 1,41 \text{ m}^2 \\ \text{Fläche 5} = a \cdot b = 0,76 \cdot 0,41 = 0,31 \text{ m}^2 \\ \text{Fläche 6} = a \cdot b = 0,76 \cdot 1,06 = 0,81 \text{ m}^2 \end{cases}$$

$$- \text{Fläche 2} = c \cdot b = 1,70 \cdot 0,76 = 1,29 \text{ m}^2$$

$$\begin{aligned} \text{Fläche 1} &= (1a + 1b + \text{Fläche 3+4} + \text{Fläche 5} + \text{Fläche 6}) - \text{Fläche 2} = \\ &= (5,7 + 18,3 + 1,41 + 0,31 + 0,81) - 1,29 = 25,24 \text{ m}^2 \end{aligned}$$

Zusammenfassung:

$$d = \underline{6,29 \text{ m}}$$

$$c = \underline{1,70 \text{ m}}$$

$$h = \underline{6,00 \text{ m}}$$

$$\text{Fläche 3+4} = \underline{1,41 \text{ m}^2}$$

$$\text{Fläche 5} = \underline{0,31 \text{ m}^2}$$

$$\text{Fläche 6} = \underline{0,81 \text{ m}^2}$$

$$\text{Fläche 2} = \underline{1,29 \text{ m}^2}$$

$$\text{Fläche 1a} = \underline{5,70 \text{ m}^2}$$

$$\text{Fläche 1b} = \underline{18,30 \text{ m}^2}$$