



BWT Tekening 3

Gemeente Heemskerk

1

Verbond A.W. Groothuisland 2.
i.m.v. de heer J. D. Gaap.

Salen balk van Lussenmuis naar achterend.

$$l = 2,76 + 0,15 = 2,91 \text{ m!}$$

$$\text{kaps} \quad 6,50/2 \times (90+50) = 455 \text{ kgf}$$

$$\text{zolder} \quad 6,50/2 \times 210 = 682,5$$

$$\text{verd.} \quad 6,50/2 \times 210 = 682,5$$

$$\text{mets} \quad 4,50 \times 200 = 900$$

e.o.p.

25

$$2745 \text{ kgf / m!}$$

Behoort bij besluit van

~~de Raad~~ van Heemskerk

B. en W.

dd. 21 SEP. 1976

no. 177

Mij bekend.

De Secretaris van Heemskerk,

$$I \text{ len.} = 27,8 \times 2,745 \times 2,91^3 = 1677,57 \text{ cm}^3 \rightarrow \underline{IPE 20} = 1940 \text{ cm}^3$$

Opstelling op kolom. ENP 12.

$$F \text{ opstelling} = 2,91/2 \times 2745 = 3788 \text{ kgf.}$$

$$i \text{ min. ENP 12} = 1,59.$$

$$\lambda = \frac{l}{i} = \frac{250}{1,59} = 157 \rightarrow \sigma = 0,172 \rightarrow E = 240 \text{ kgf/cm}^2$$

$$F = \frac{P}{E} = \frac{3788}{240} = 15,78 \text{ cm}^2 \rightarrow \underline{\text{ENP 12}} = 17 \text{ cm}^2$$

Grondbalk op fundering, Loop 55-6 = 49 cm.

$$\text{breed } 2 \times 12 \text{ cm} = 24 \text{ cm.}$$

$$N = \frac{1}{3} \times 2745 \times 2,9^2 = 2085 \text{ kgm.}$$

$$k = \frac{N}{b} = \frac{49}{\sqrt{2085/0,24}} = 0,447$$

$$\sigma_0 = 0,375 + \frac{1}{21} \times 0,250 = 0,41$$

$$A = 3,91 \times 0,24 \times 49 = 4,60 \text{ cm}^2 = 2 \phi 17 + 2 \phi 10 \text{ QZ 67.}$$

gewelopening ierker.

$$L = 1,80 + 0,15 = 1,95 \text{ m'}$$

balk onder binnenblad.

$$\begin{array}{lcl} \text{kaps} & 3,90/2 \times 140 = & 273 \text{ kgf/m} \\ \text{zolder} & 3,90/2 \times 210 = & 399 \\ \text{verd.} & 3,80/2 \times 210 = & 399 \\ \text{mets} & 4,50 \times 200 = & 900 \\ \text{c.f.} & & \underline{10} \end{array}$$

$$1981 \text{ kgf/m'}$$

$$I_{\text{ben.}} = 27,8 \times 1,98 \times 1,95^3 = 364,3 \text{ cm}^4$$

balk onder buitenblad.

$$\begin{array}{lcl} \text{kaps} & 0,20 \times 140 = & 28 \text{ kgf/m' } \\ \text{mets} & 4,50 \times 200 = & 900 \\ \text{mieuwe kaps} & 2,40/2 \times 140 = & 168 \\ \text{plafond} & 2,10/2 \times 40 = & 42 \\ \text{c.f.} & & \underline{10} \end{array}$$

$$1148 \text{ kgf/m'}$$

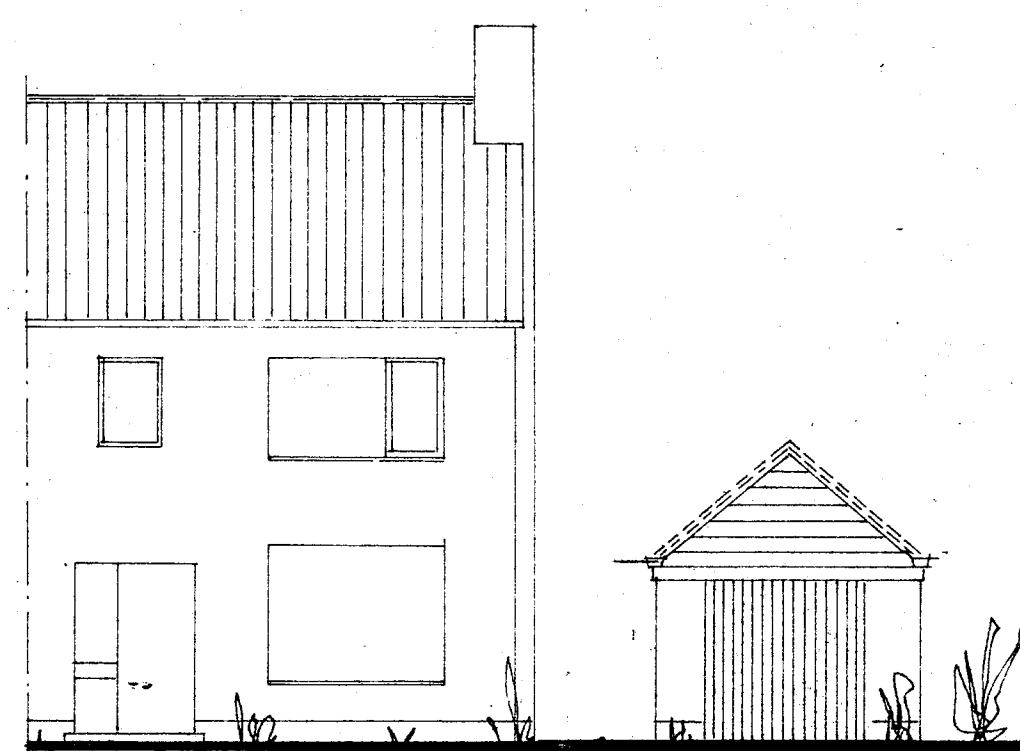
$$I_{\text{ben}} = 27,8 \times 1,148 \times 1,95^3 = 211,1 \text{ cm}^4$$

$$\text{Neem 2 gekoppelde IPE 12. met } I_{\text{tot.}} = 636 \text{ cm}^4$$

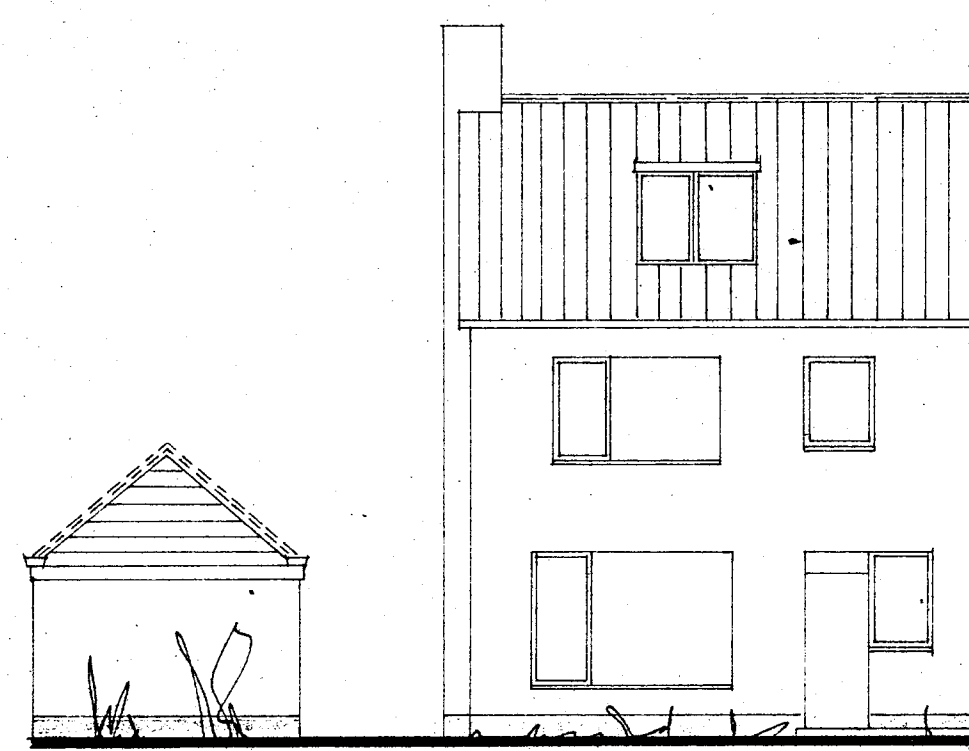
$$\text{Opslagging} = 1148 \times 1,95/2 = 1120 \text{ kgf.}$$

$$\text{Opslaglengthe bij gebruik opslagplaat breed 20 cm} = 12 \text{ cm}$$

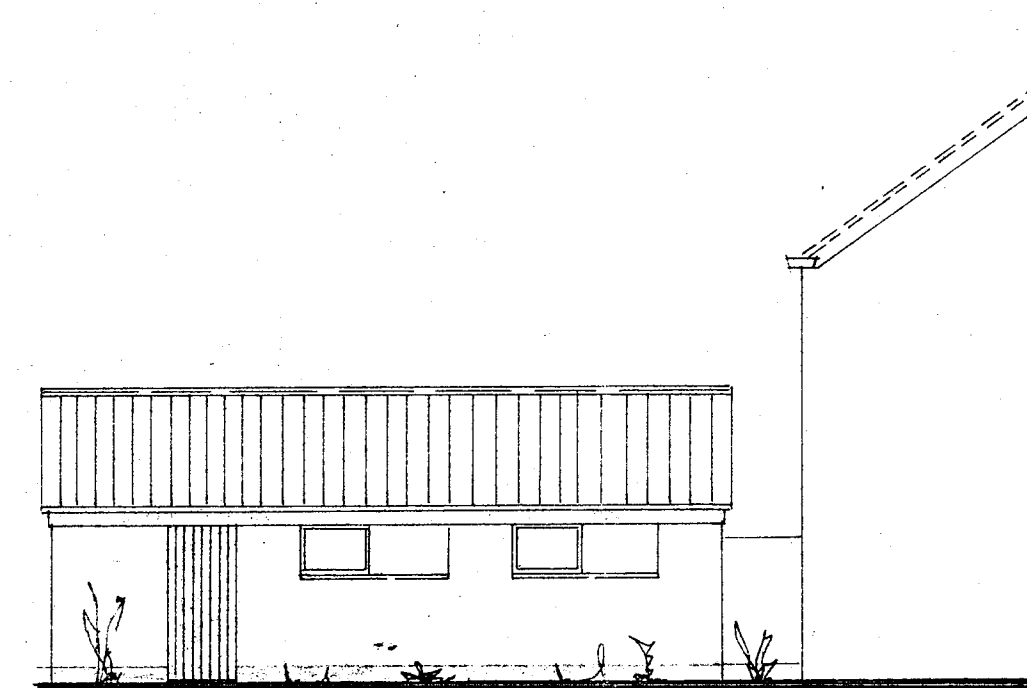
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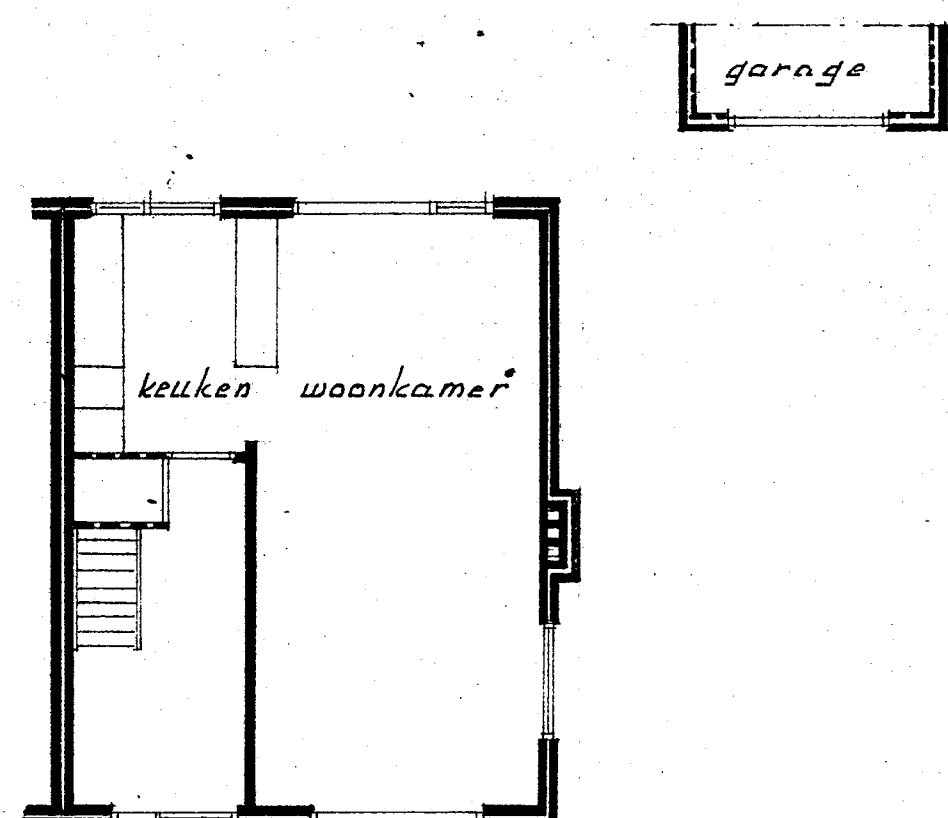
Voorgevel



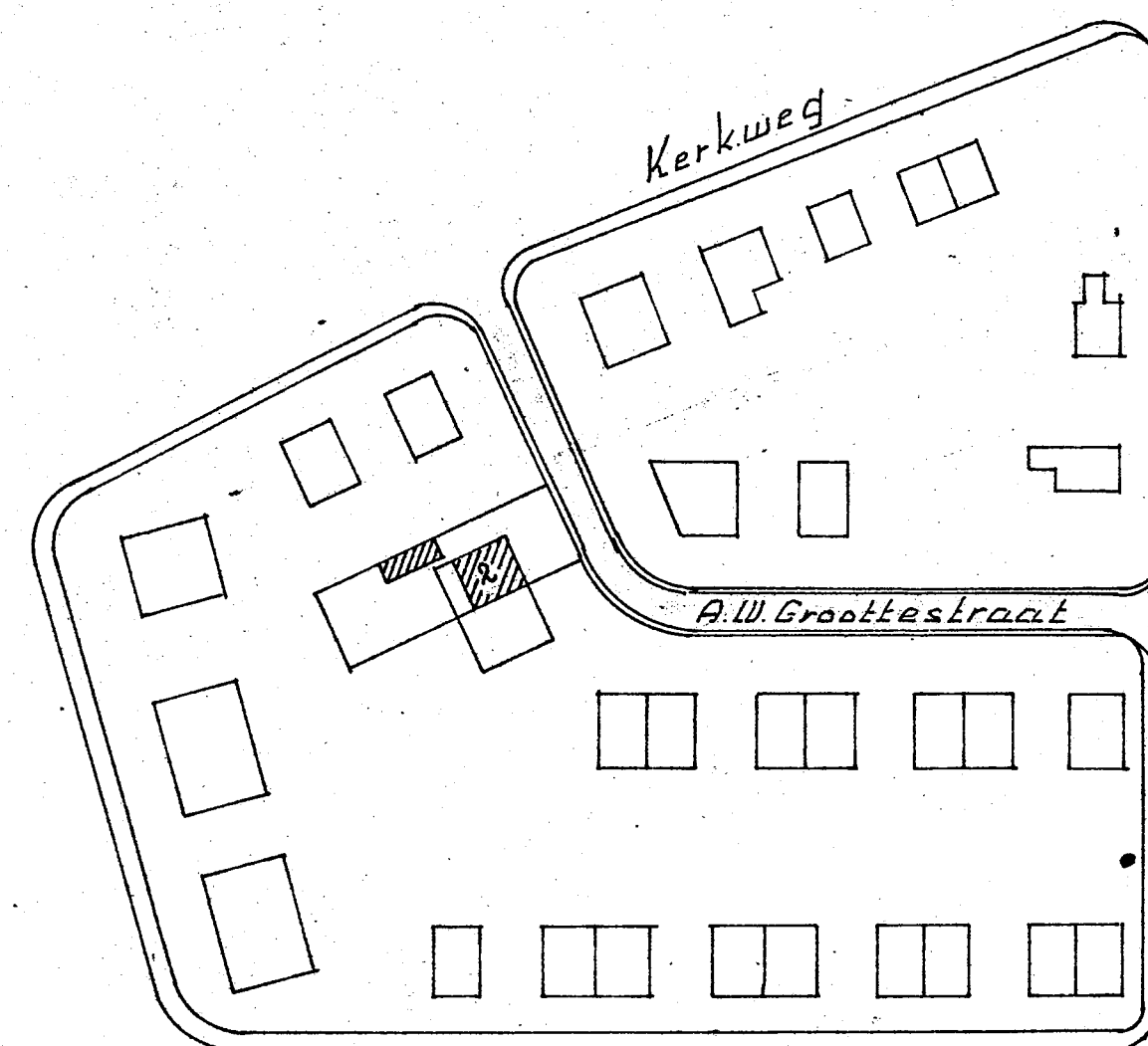
Achtergevel



L. zijgevel



Plattegrond



kad. situatie ged. compl. Kerkbeek schaal 1:1000

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Bestaande Situatie
Woonhuis van de Hr. J.W. Paap
A.W. Grootestraat 2 te Heemskerk.
Schaal 1:100 d.d. 8-2-76. Gel. J.W.P.

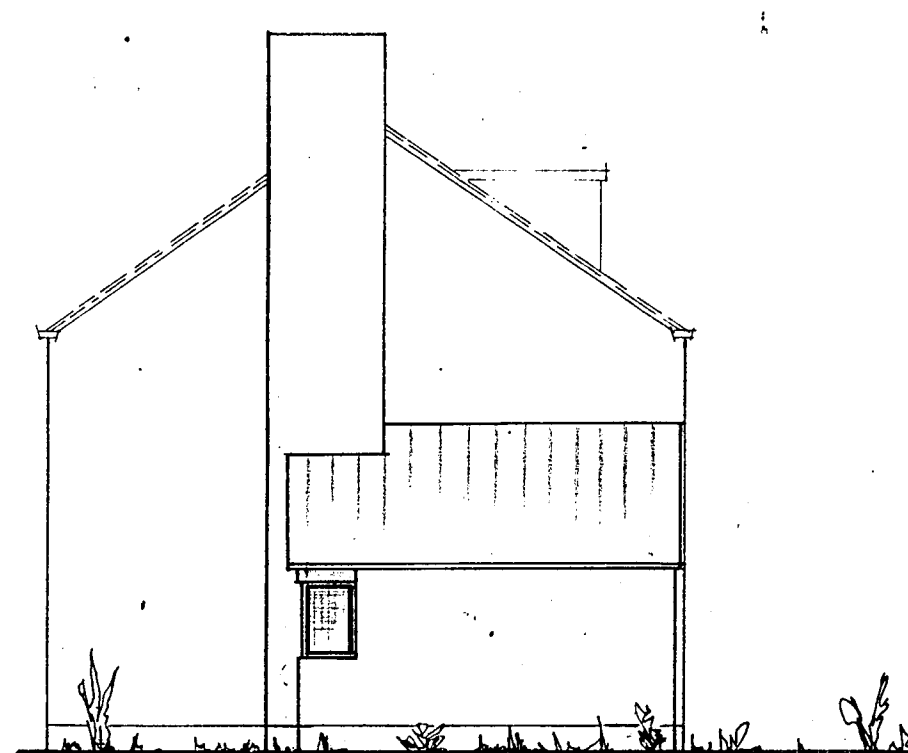
INGEKOMEN 6 SEP. 1976



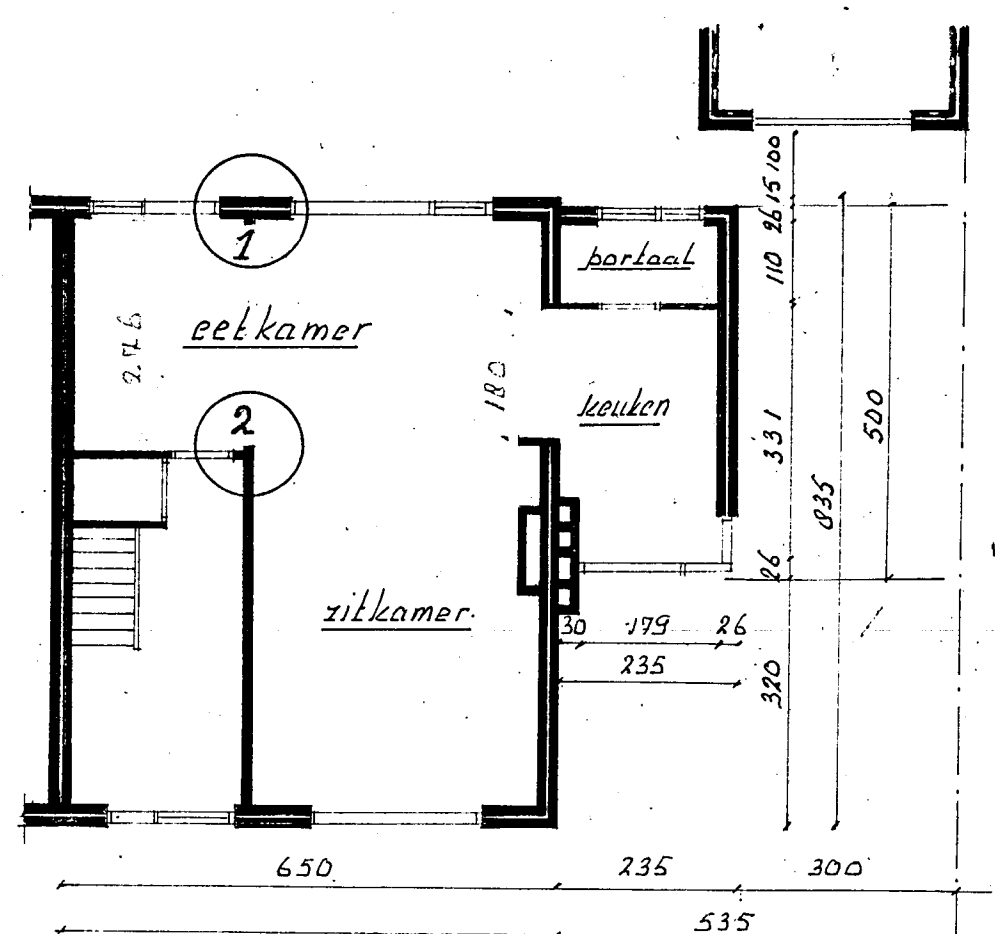
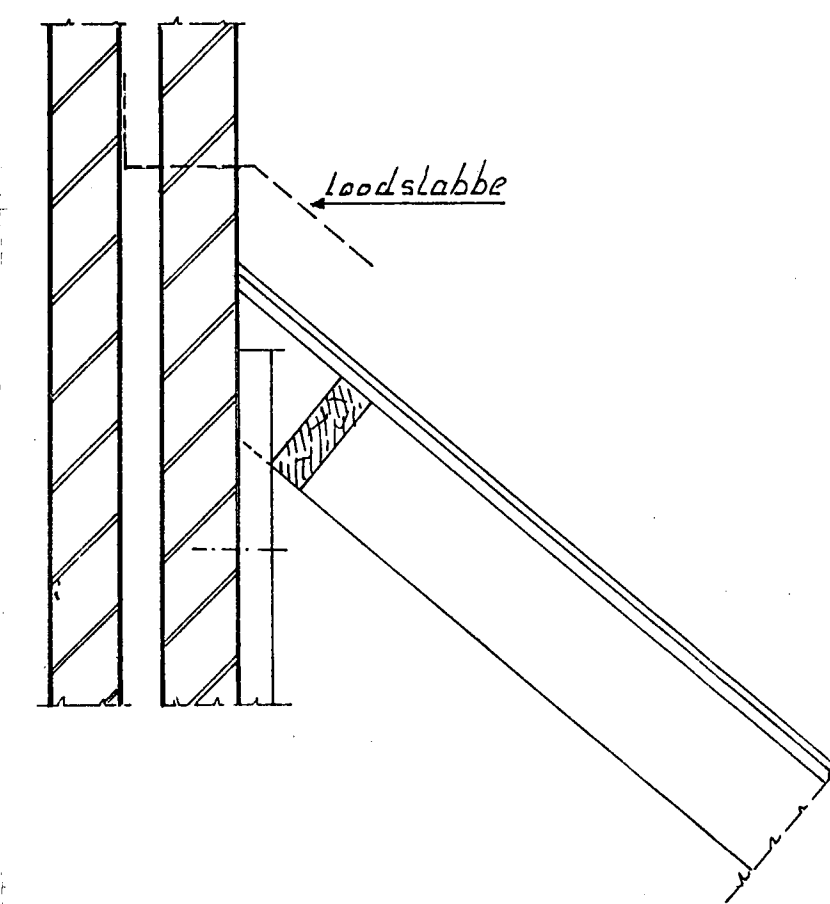
voorgevel



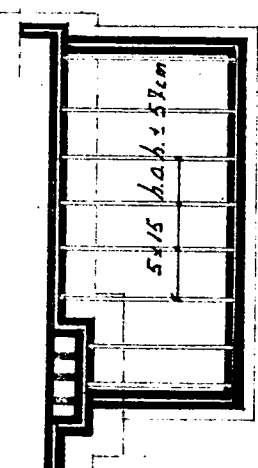
achtergevel



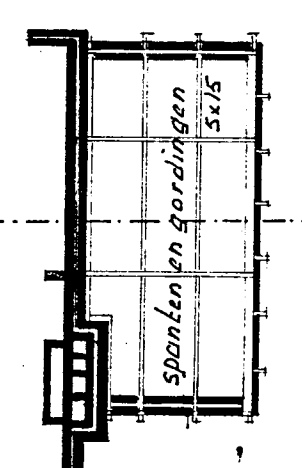
kopgevel



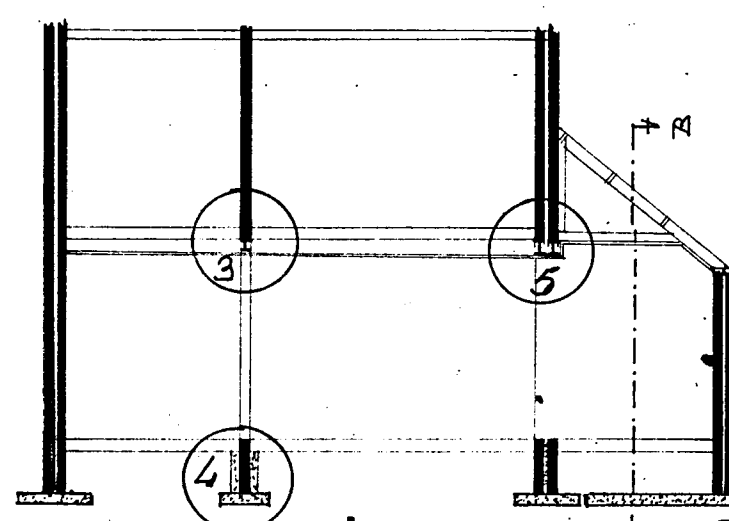
platte grond



vloer balklaag



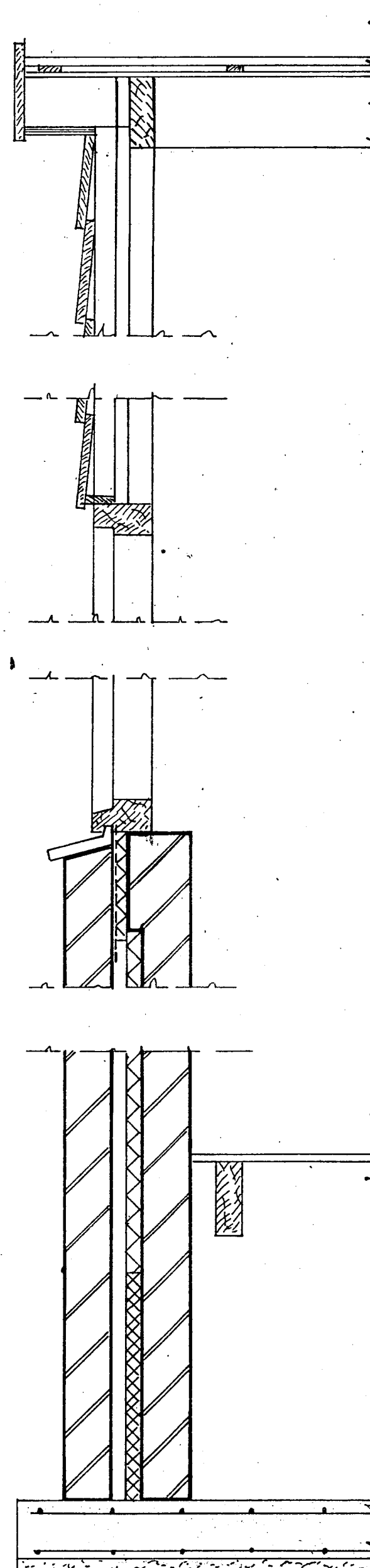
kopplan



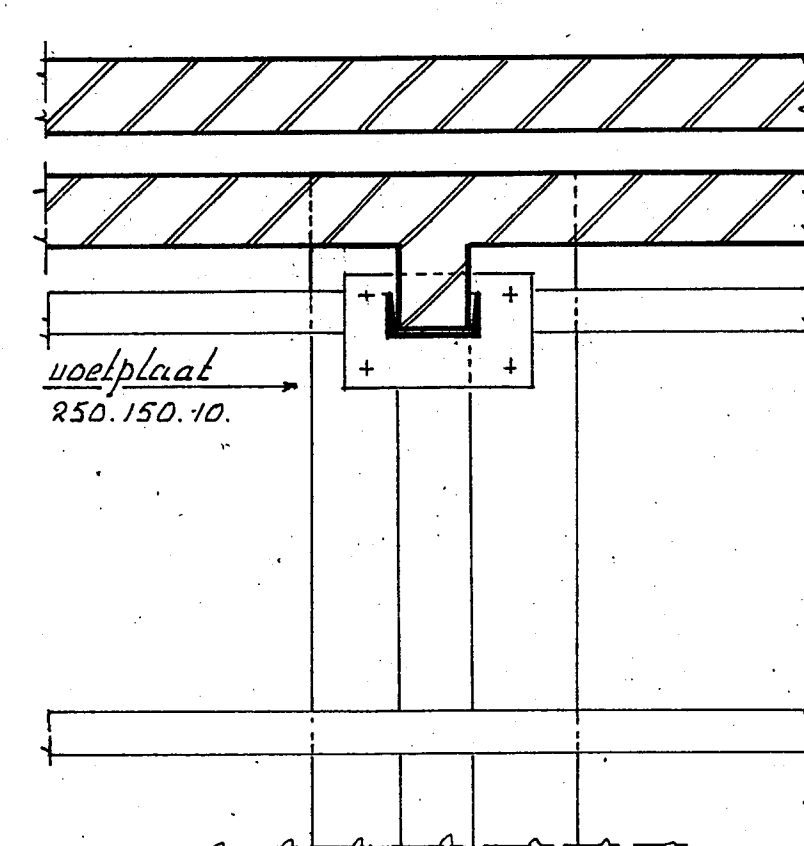
doorsnede

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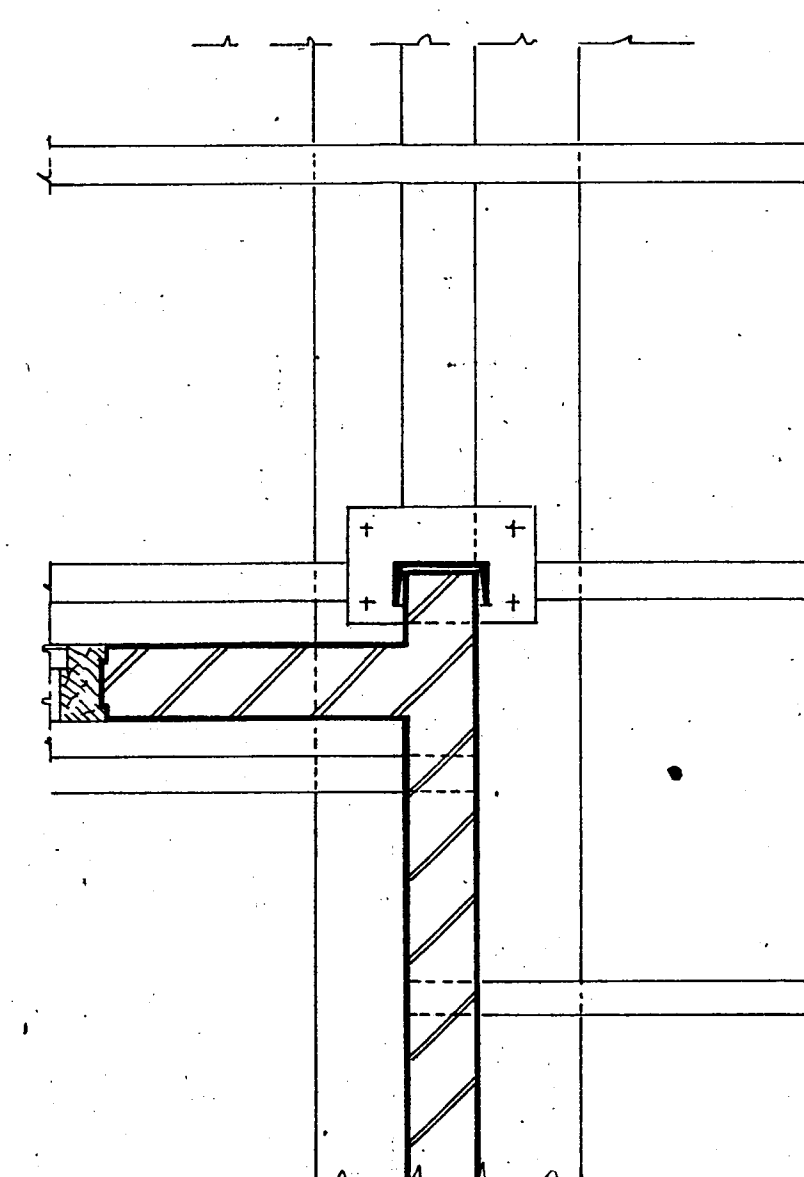
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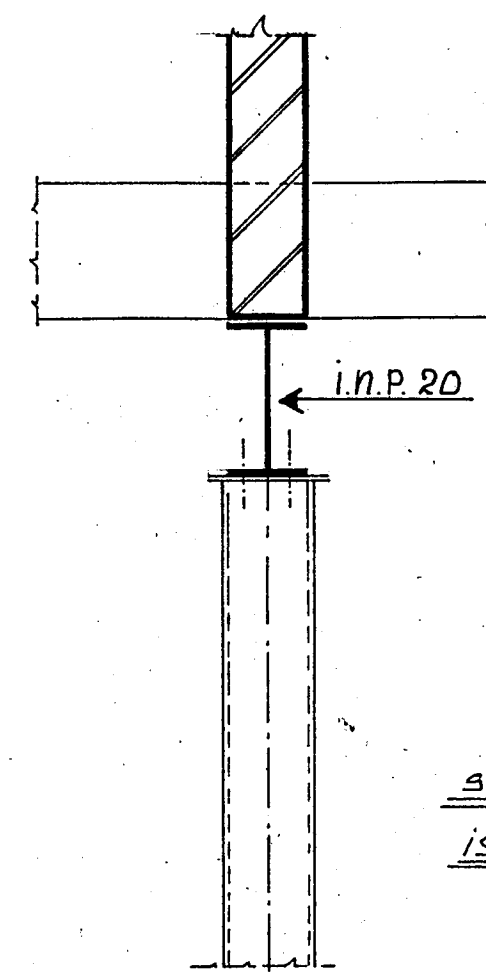
doorsnede A-B



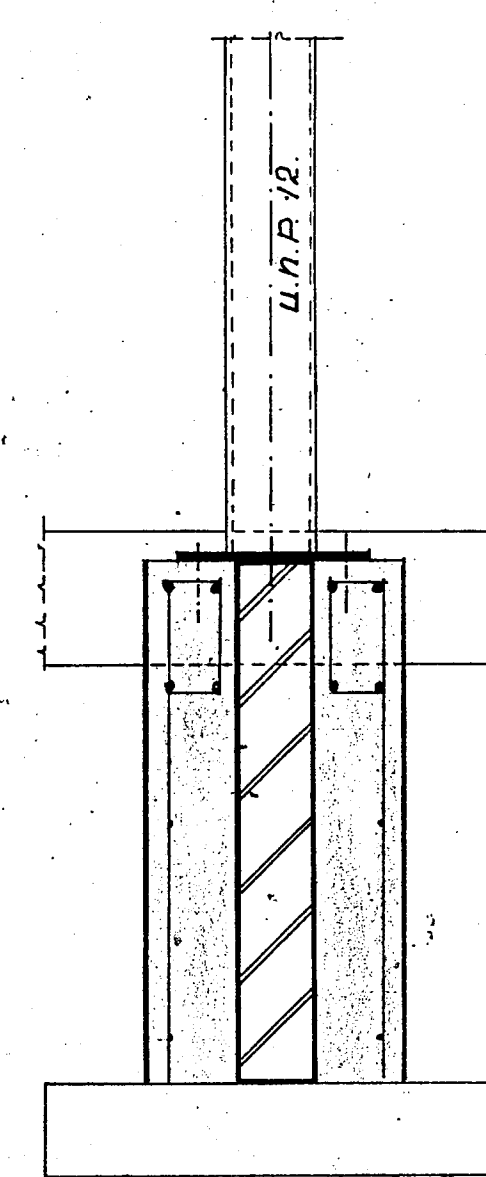
detail 1



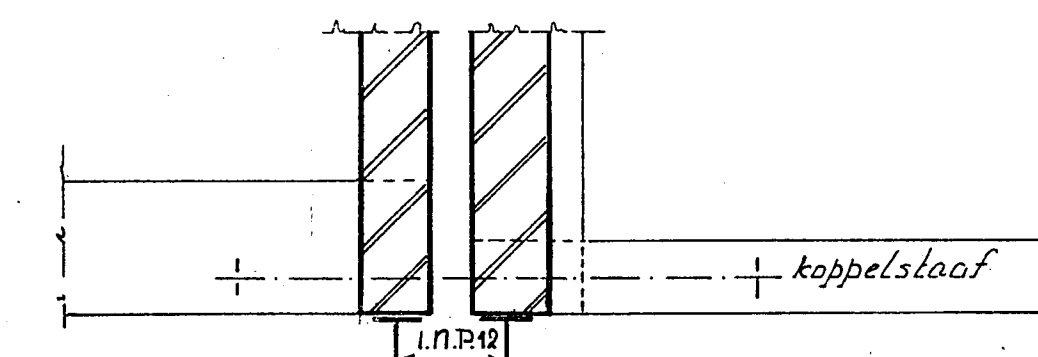
detail 2



detail 3

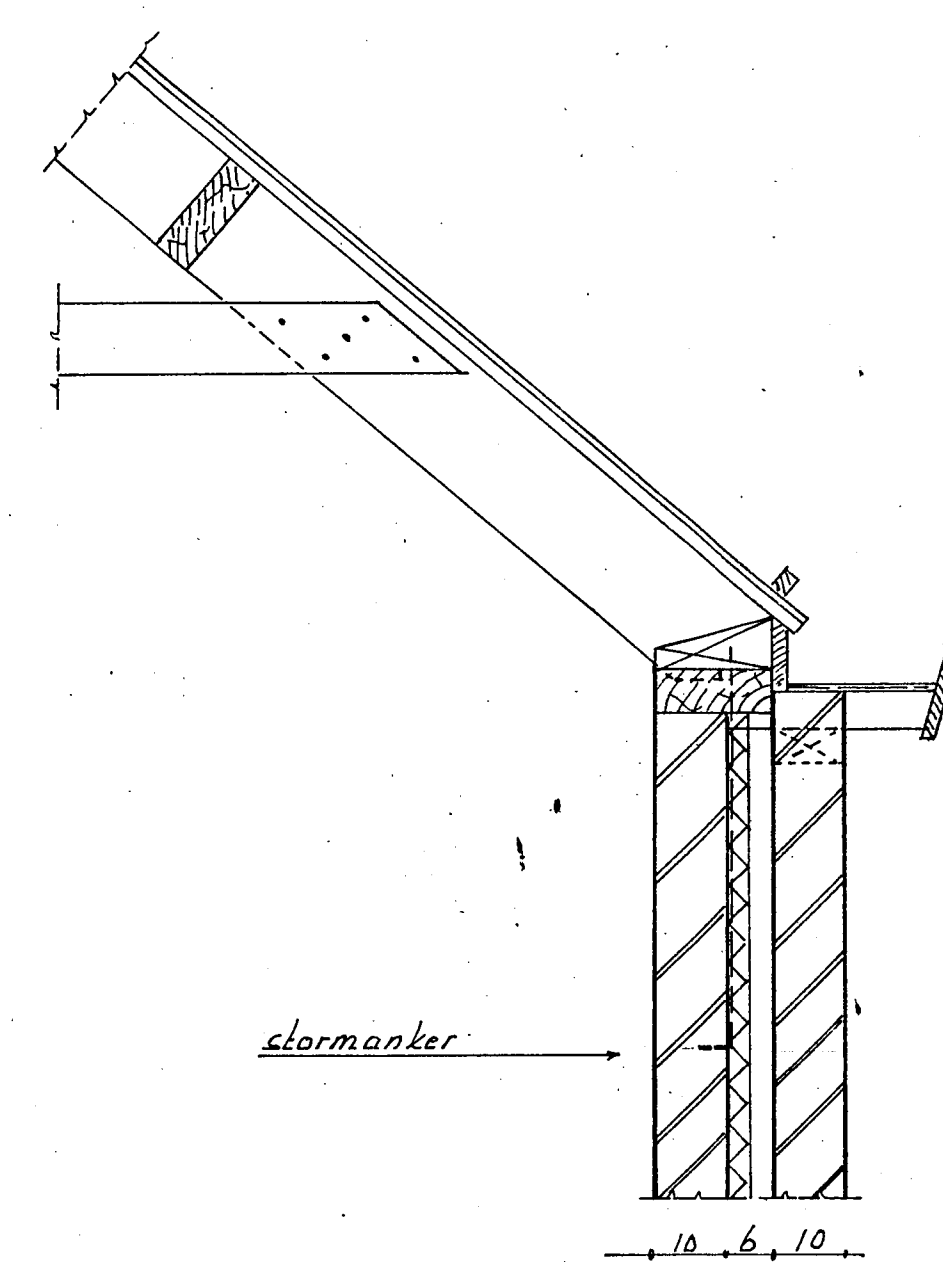


detail 4

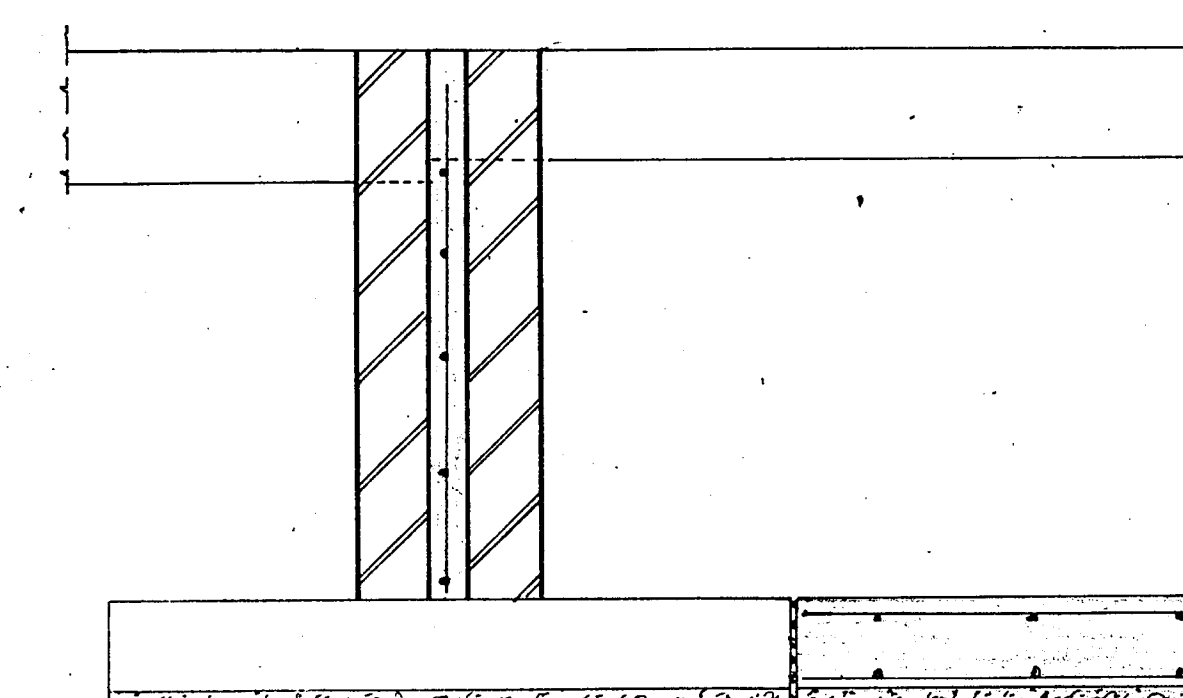


detail 5

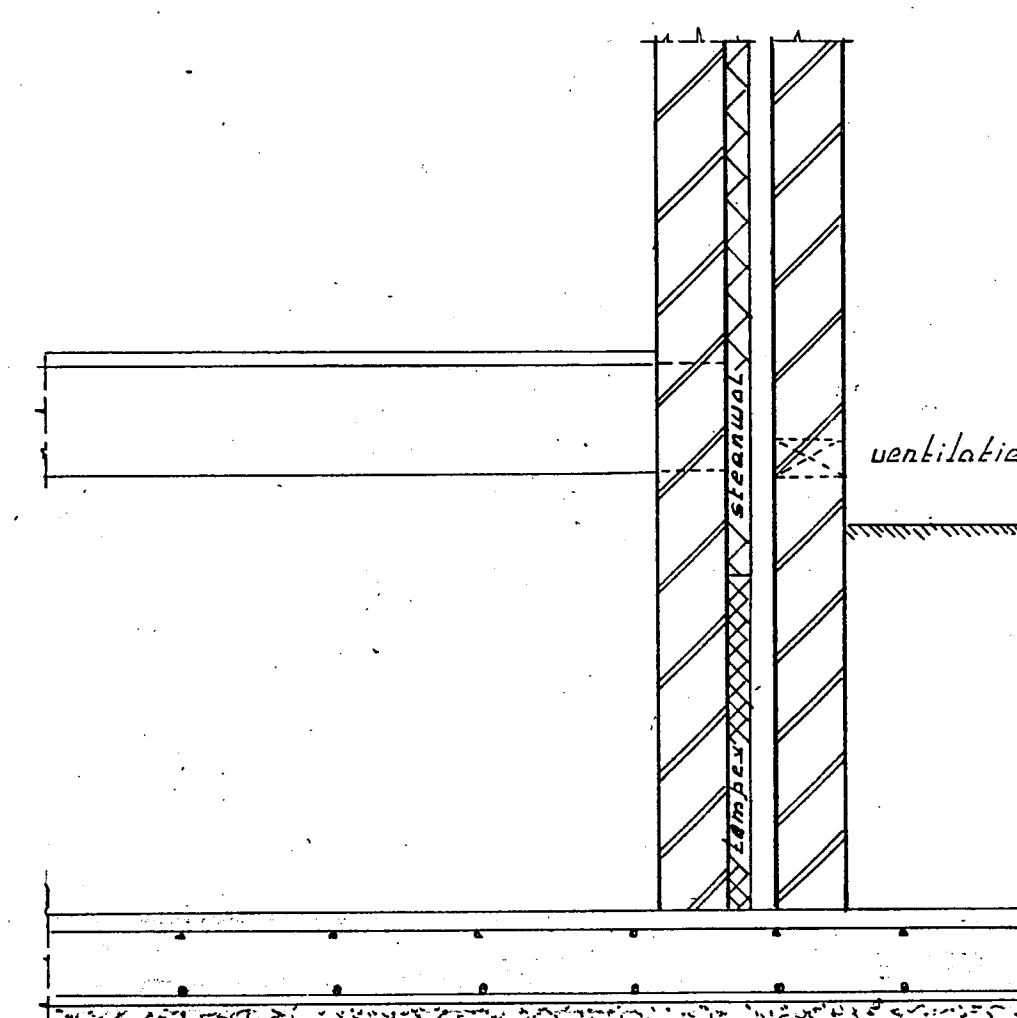
staalwerk brandwerend bekleden
isolatie plafonds en spouw steenwol



stormanker



doorsnede C-D



ventilatie

Plan voor het uitbreiden woonhuis
van de heer Paap O.W. Groottestr. 2
te Heemskerk.
schaal 1:10 en 1:100
get. 3-9-76 Jwp.