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G. V. HUTE
Opgaver
i
Fagtegning
for Murere

INDUSTRI-
FORENINGEN.

5891

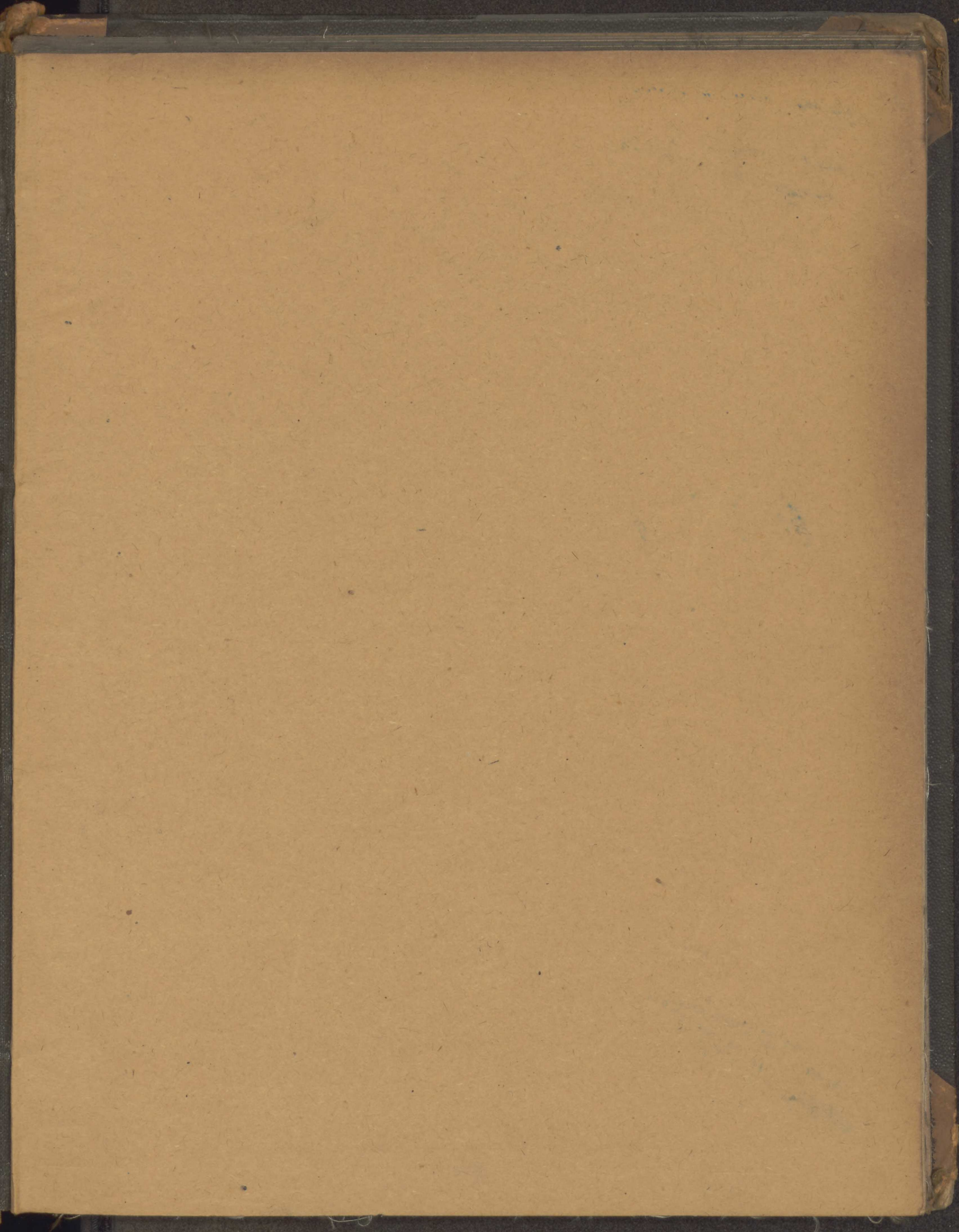
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2636

~~2486~~

6931

~~6931(084)~~



9-38.

(A)

OPGAVER

TIL BRUG VED UNDERVISNING

I

FAGTEGNING FOR MURERE

UDARBEIDET OG UDGIVET

MED UNDERSTØTTELSE FRA DET TEKNISKE SELSKABS SKOLE

AF

G. v. HUTH

INDUSTRI-
FORENINGEN.

32 TAVLER MED VEILEDNING

KJØBENHAVN

I COMMISSION HOS RUDOLPH KLEIN

PACHT & CRONE'S ETABLISSEMENT

1885.

Opgaver

til Brug ved Undervisning

i

FAGTEGNING FOR MURERE

af

G. v. Huth.

Vejledning for Læreren.

Opgaverne ere efter deres Beskaffenhed ordnede i 14 Grupper med en eller flere Tavler i hver. Disse ere betegnede ved Bogstaver fra A. til O., hvis Rækkefølge angiver den Orden, hvori Opgaverne benyttes. Af samme Grund er de til samme Gruppe henhørende Tavler yderligere nummererede med et lille Tal tilhøjre for Bogstavet. Disse Numre fortsættes, ifald man ønsker at indskyde nye Tavler. Hvilke og hvormange af Opgaverne en Elev bør løse, beror paa hans Forunderskaber og Opfattelsesevne, og maa, efterhaanden som Undervisningen skrider fremad, afgjøres af paagjældende Lærer.

Tegnepapiret, som benyttes, forsynes, forinden Opgaven tegnes, med en Ramme, der svarer til det dobbelte Maal af den paa Opgavetavlerne angivne Ramme. Rammens venstre og nederste Sidelinie inddeles, som vist paa Tavle A¹, i Stenlængder med Kvartstens Inddeling, hvorved det bliver lettere at overføre Opgaven, som og at indtegne Stenene.

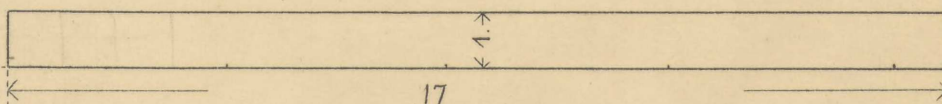
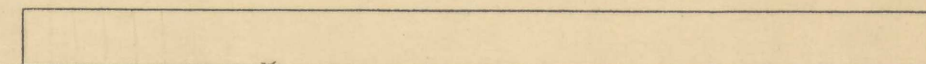
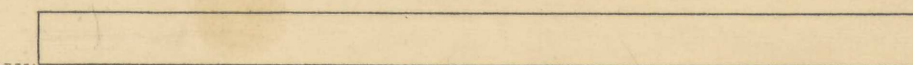
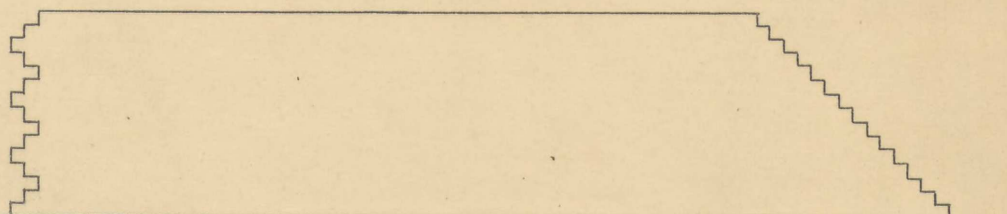
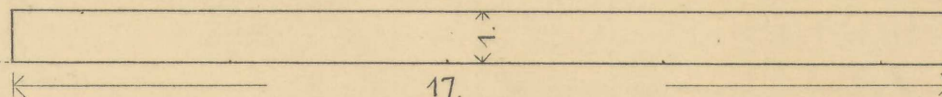
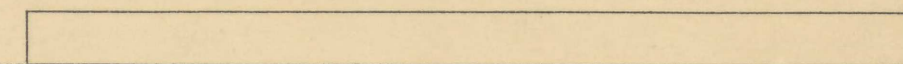
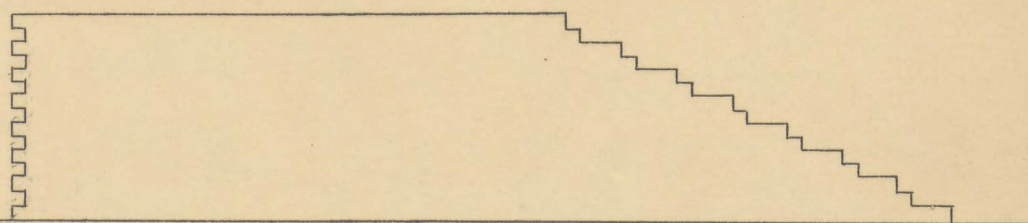
Opgaverne tegnes i det Maal, der er angivet forneden paa hver Tavle, og benyttes enten, som de foreligge, eller omdannes noget ved, at man forøger eller formindsker det i Grundplanerne angivne Antal Stenlængder, og varierer med Buer og Stik eller paa anden Maade foretager Forandringer. Ved Løsningen af de Opgaver, der tegnes i 3 Tom.pr. Al., gives Fugerne en Tykkelse af c. $\frac{1}{3}$ Tomme. Skiftetykkelsen afsættes da saaledes, at der for hver Alen af Murens Højde regnes 10 Skifter med 9 mellemliggende Lejefuger. Stenlængden afsættes saaledes, at 8 Løbere med mellemliggende Stødfuger udgjøre 3 Alen af Murens Længde. Ved alle øvrige Opgavers Løsning tegnes Fugerne kun som enkelt Linie, medens de nævnte Hovedmaal bibeholdes.

For at undgaa paa selve Tegnepapiret at foretage de Forsøg, der nødvendigvis maa gaa forud for Opgavernes heldigste Løsning, anbefales Anvendelsen af kvadreret Papir og smaa Modelsten af Gibs.

Paa Tavlerne forneden henvises til Tavler i „Grundtrækkene i Murstensforbindelser“, der enten indeholde Brudstykker af Opgaverne, eller Skifter, hvis større eller mindre Lighed med Opgaverne, kunne blive til Vejledning ved disses Løsning.

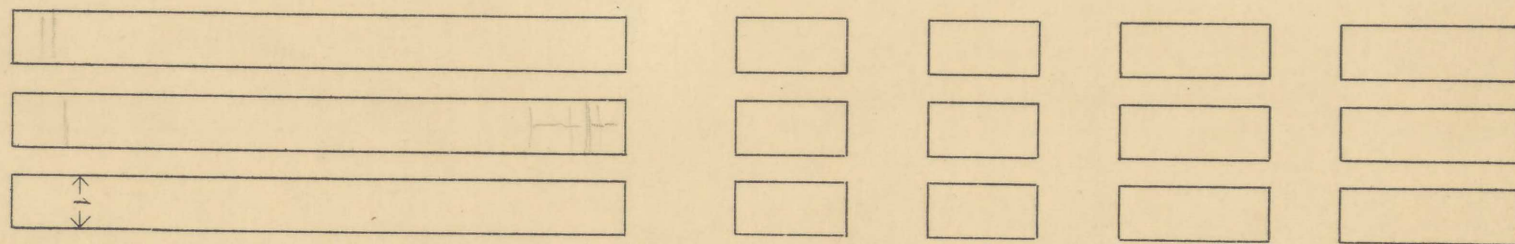
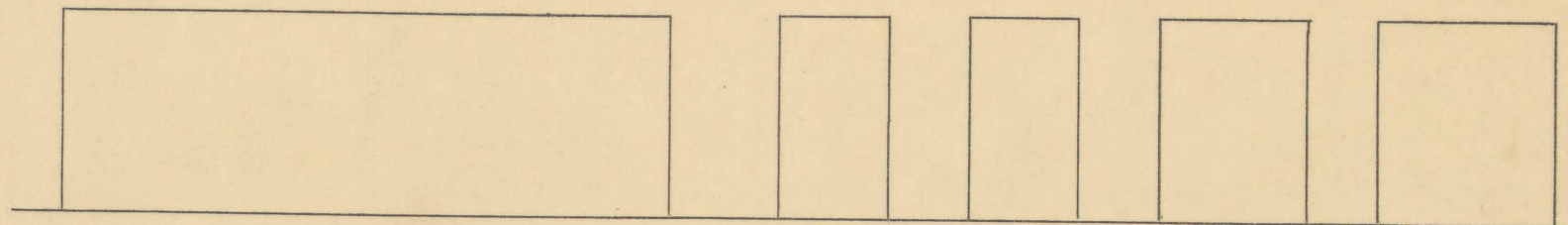
Naar en Tegning er færdig, renskjæres Papiret $\frac{3}{4}$ Tomme udenfor Rammen, saaledes at alle Tegninger faa samme Format.

A¹

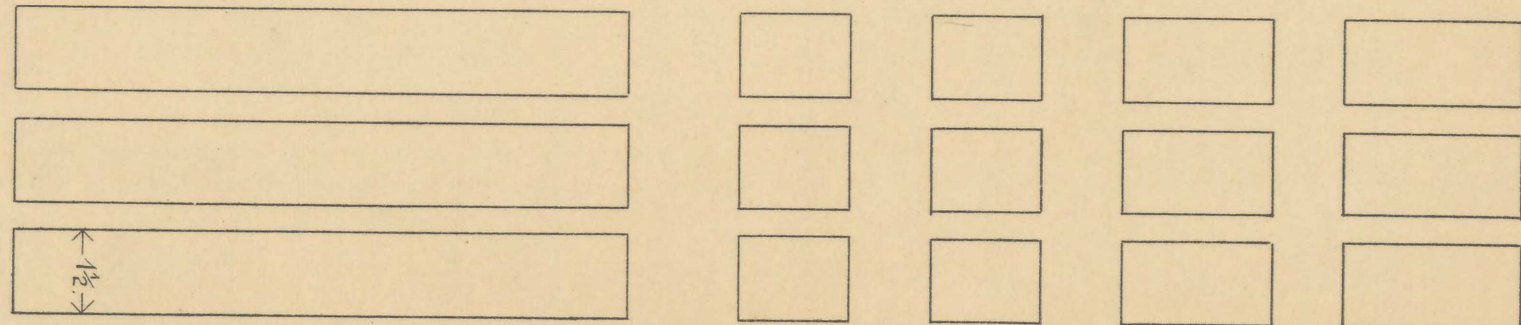


Opgaven tegnes i 1¹/₂ Tom. pr. Alen.

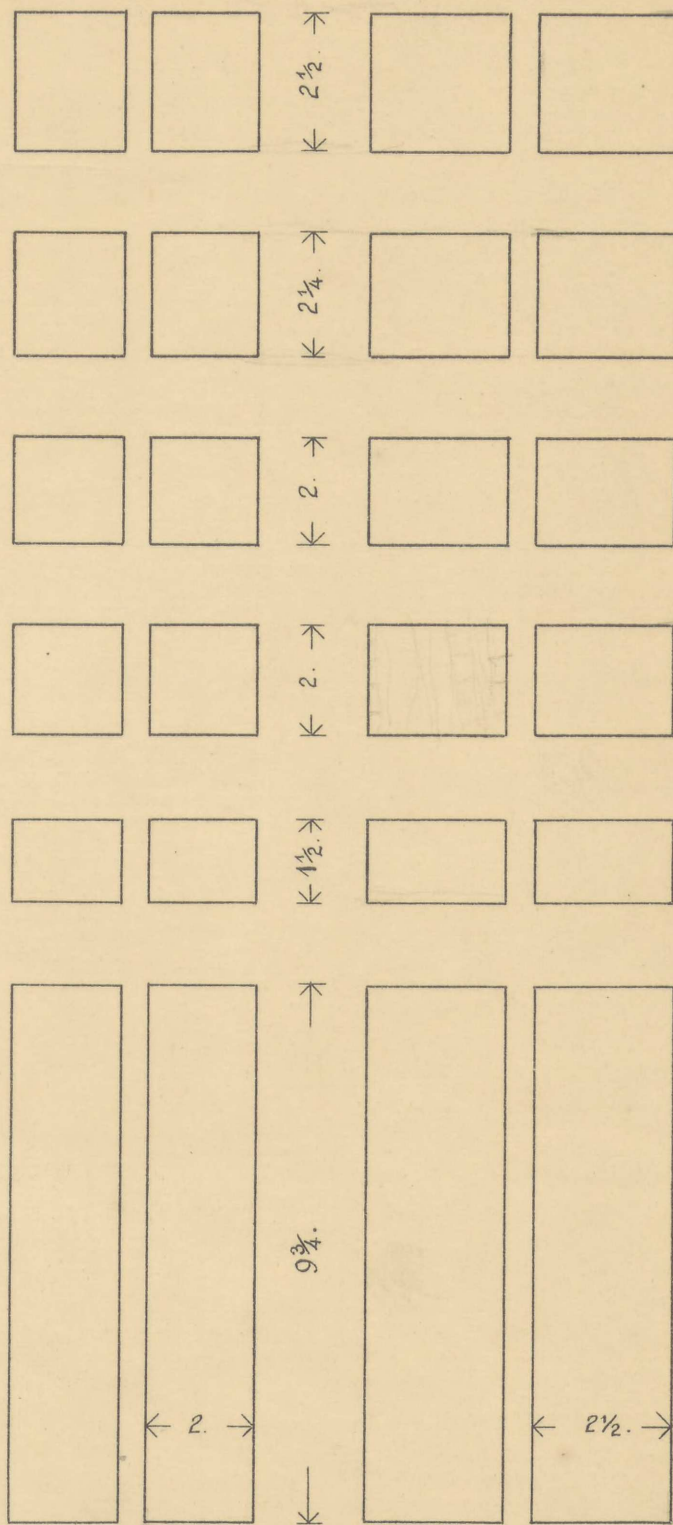
A²



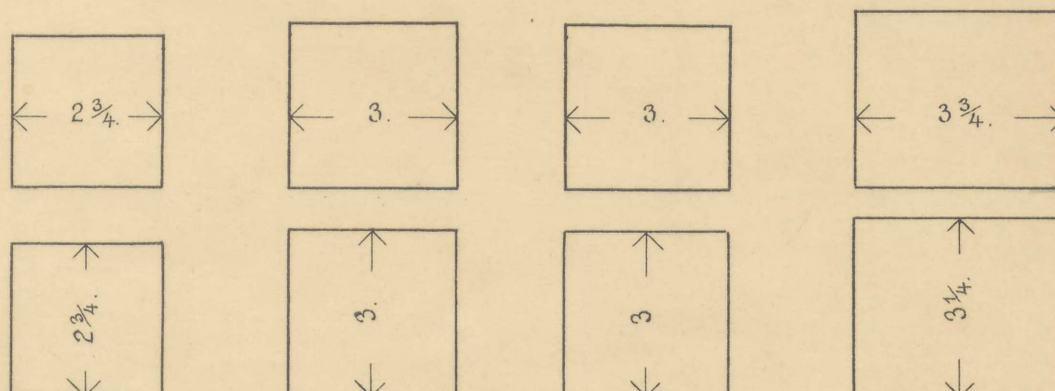
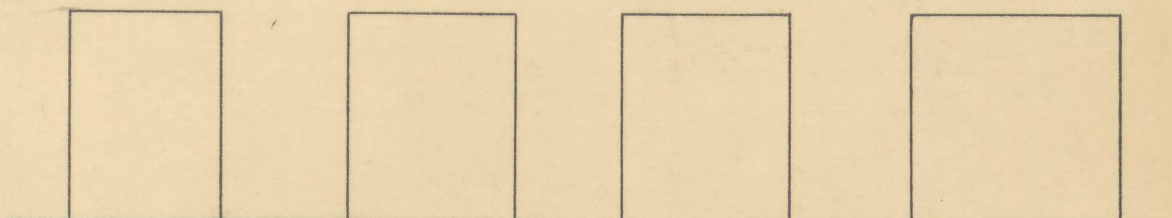
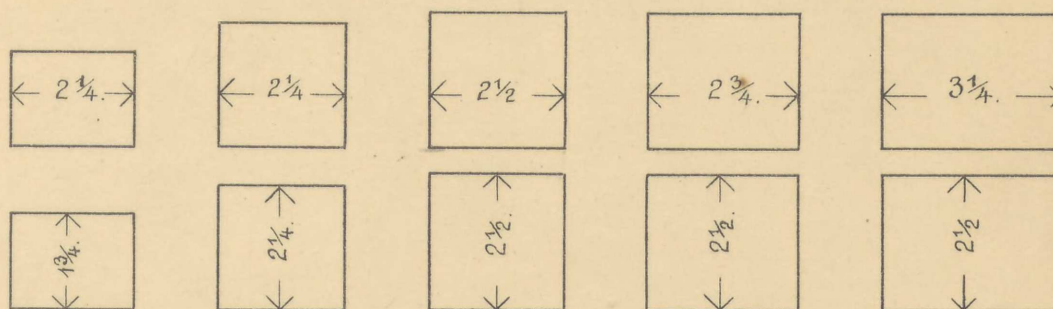
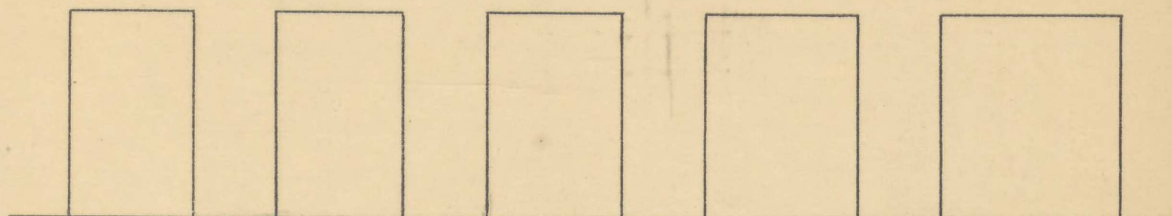
← 11 $\frac{1}{4}$. → ← 2. → ← 2. → ← 2 $\frac{3}{4}$. → ← 3 $\frac{1}{4}$. →



Opgaven tegnes i 1 $\frac{1}{2}$ Tom. pr. Alen.

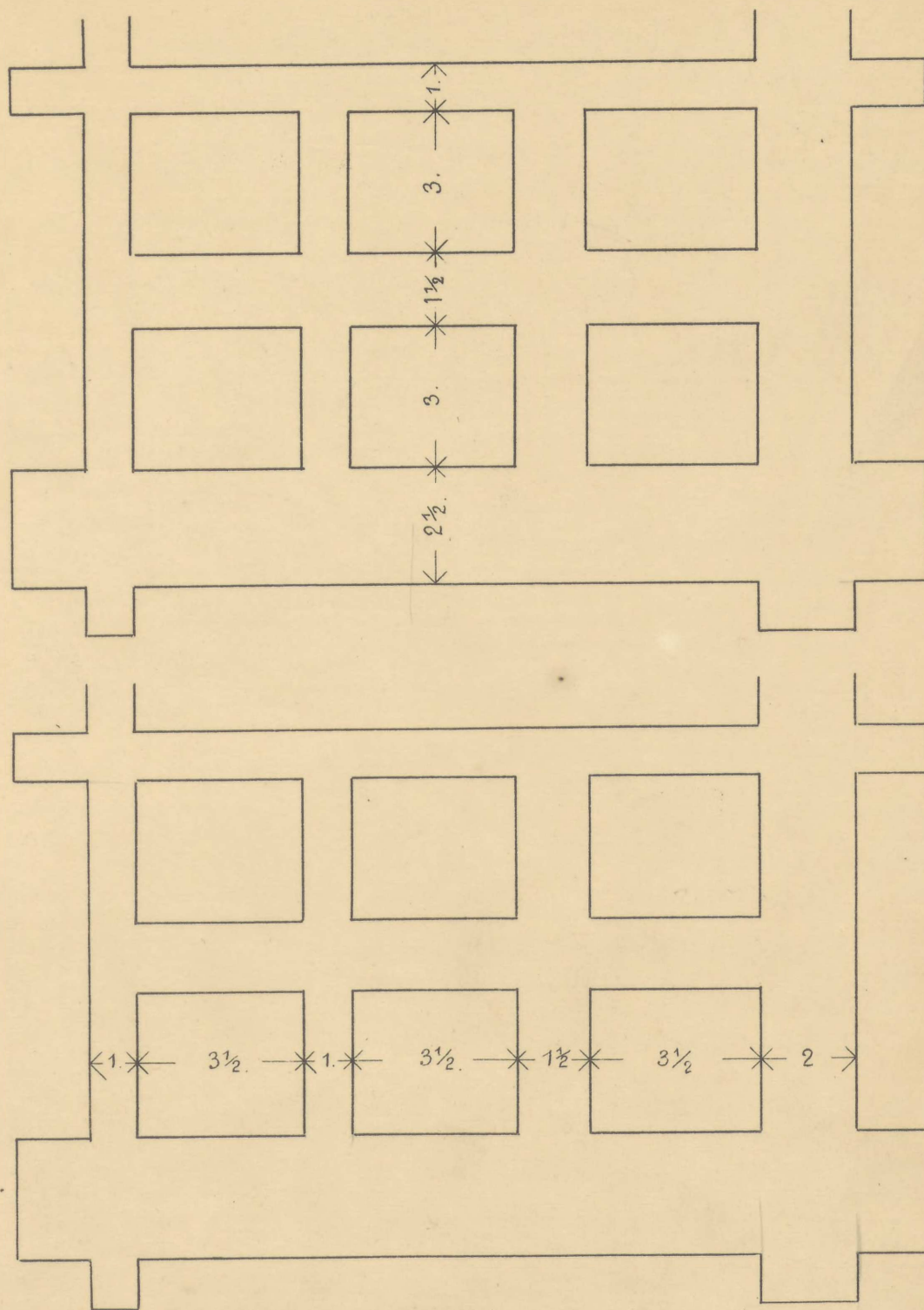


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.



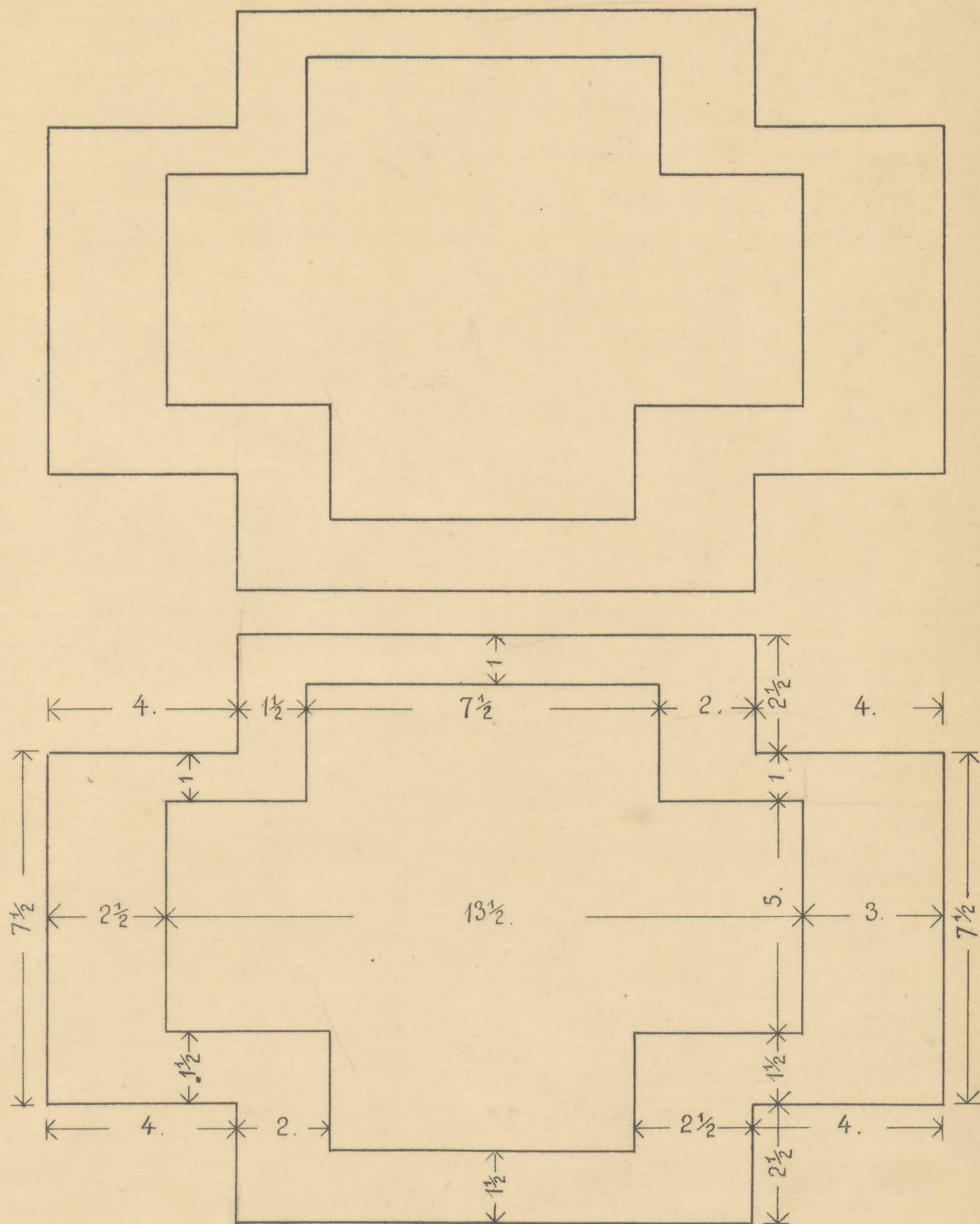
Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

B¹



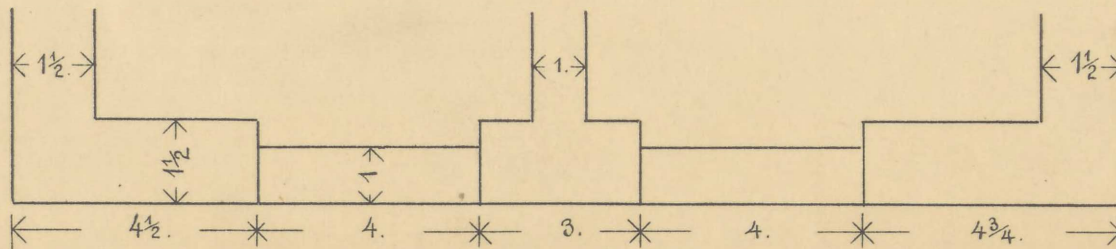
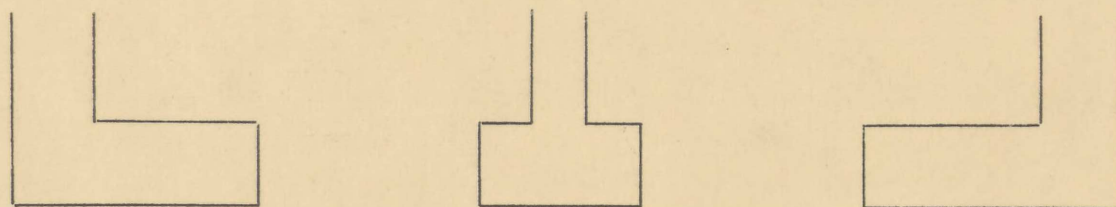
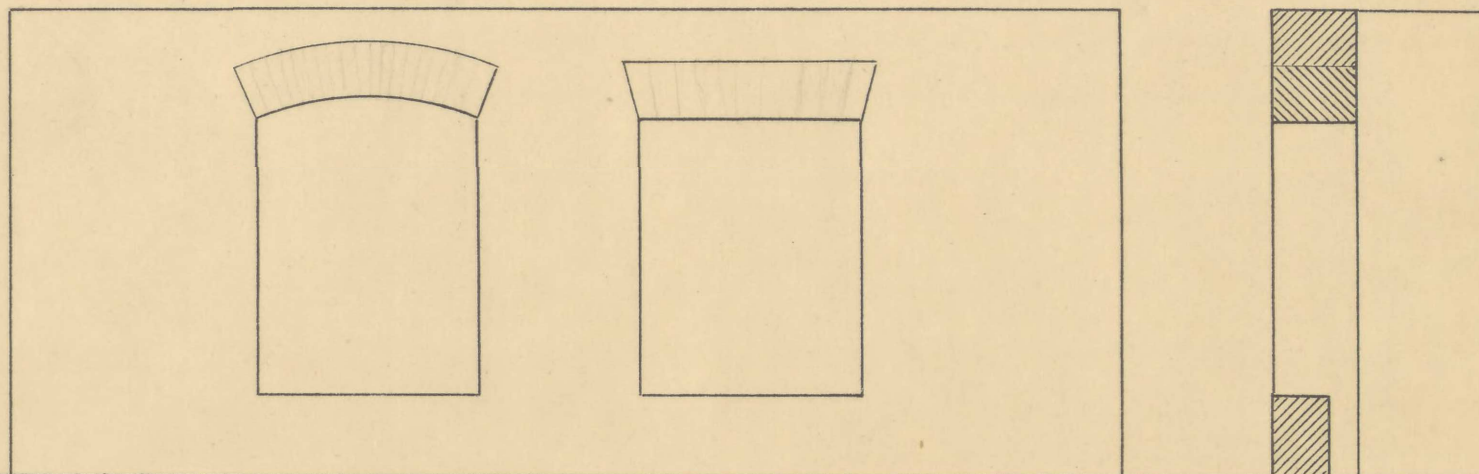
Opgaven tegnes i 1¹/₂ Tom. pr. Alen.

C¹

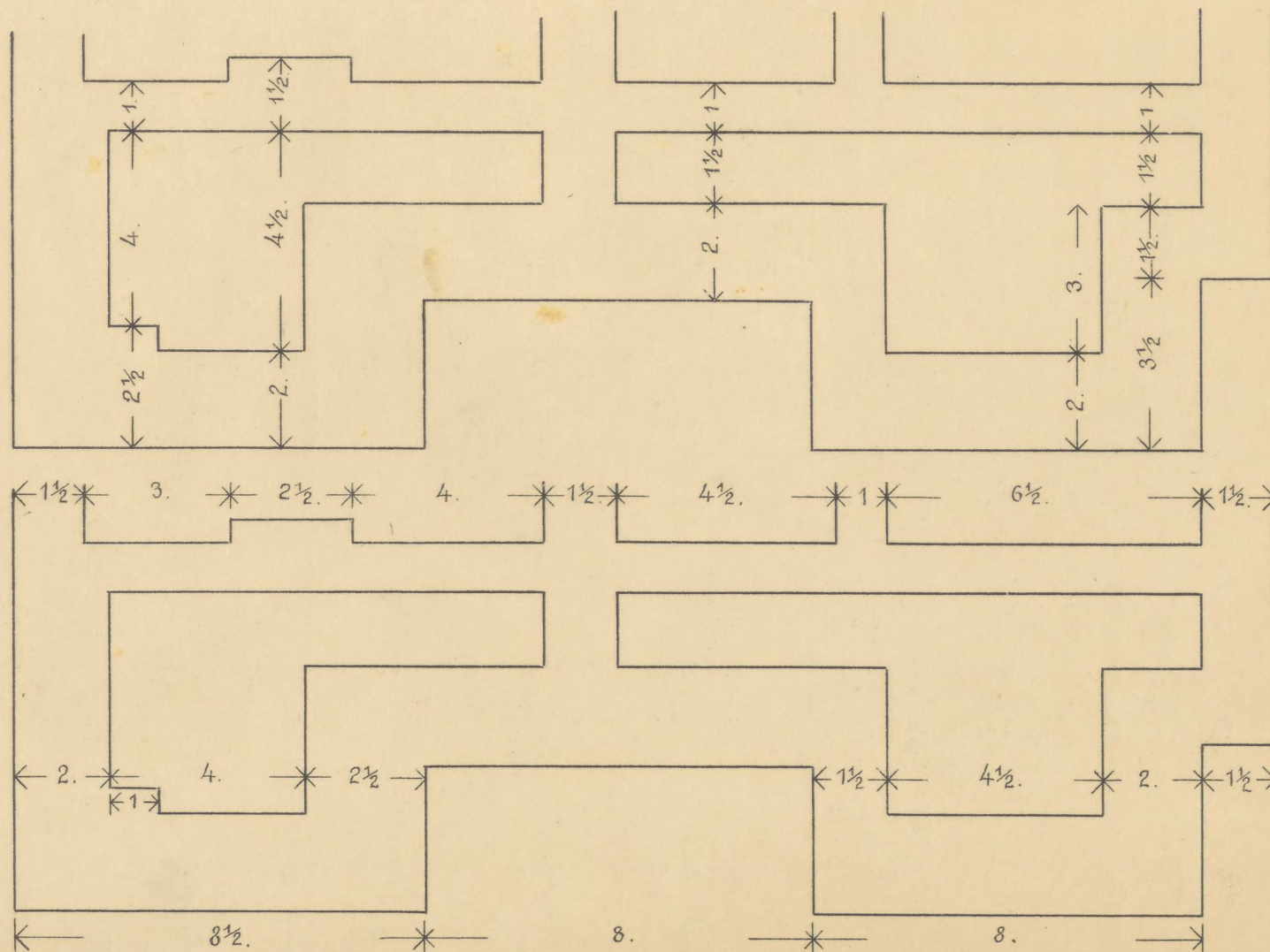


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

C²

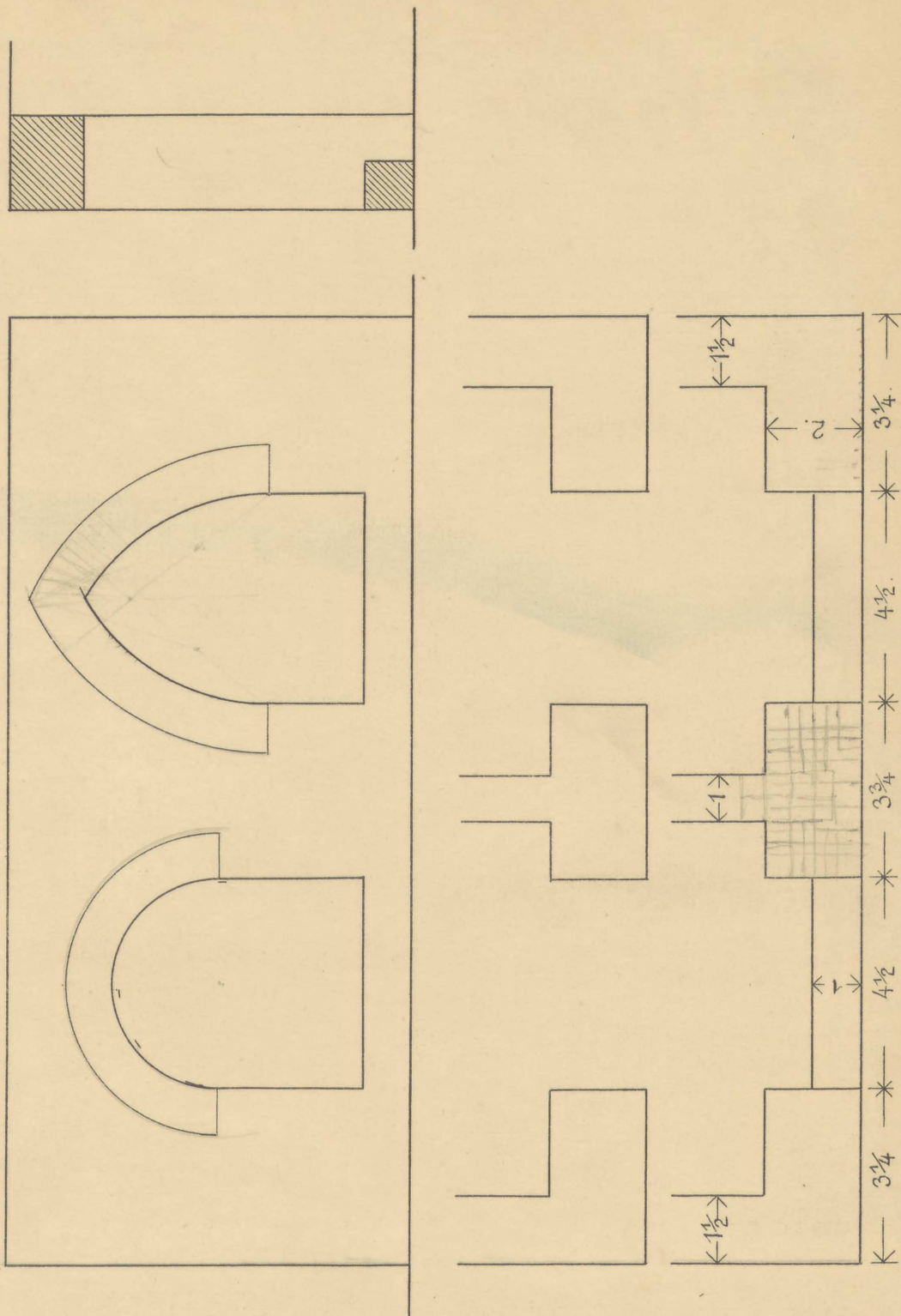


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

C³

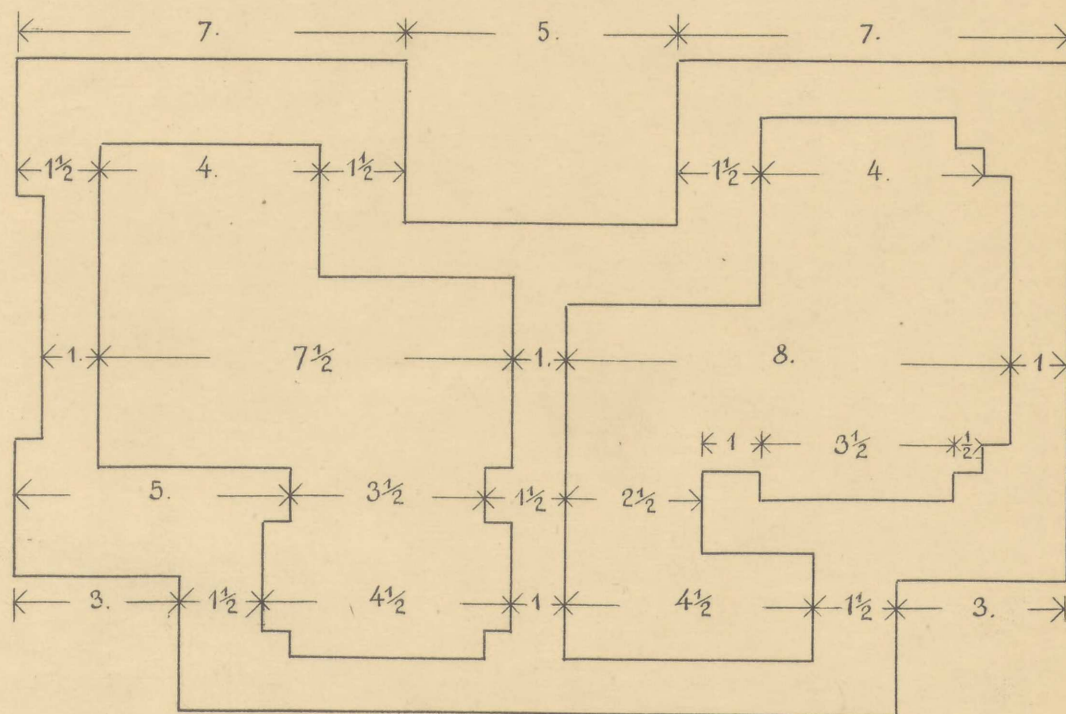
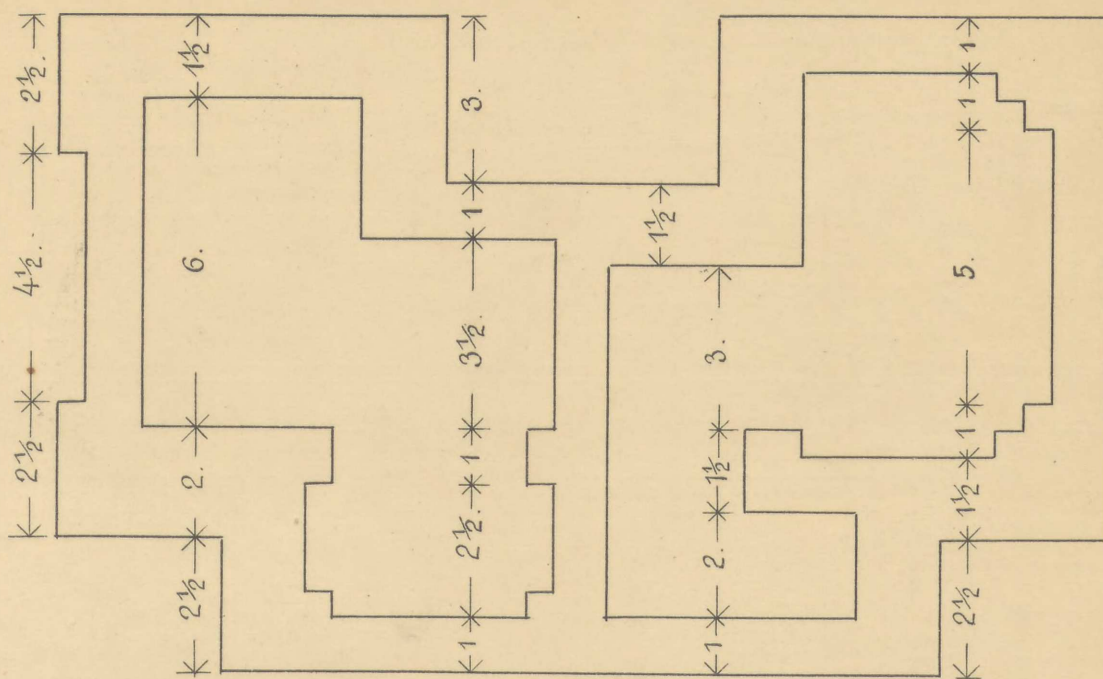
Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

C⁴

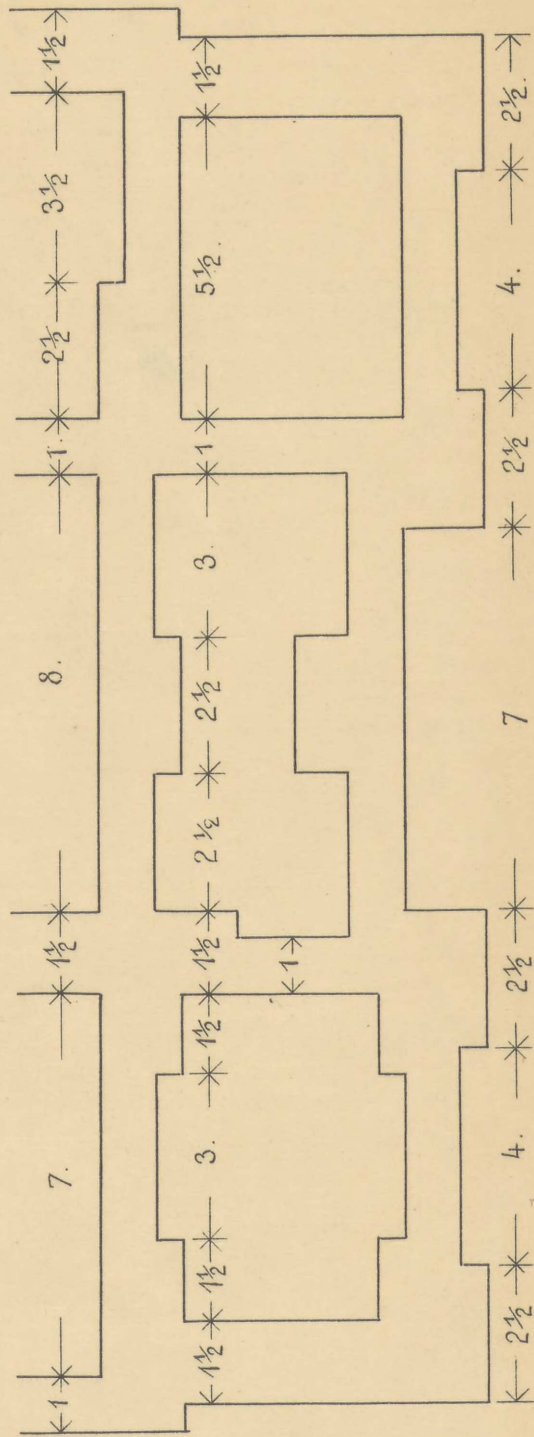


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

C⁵

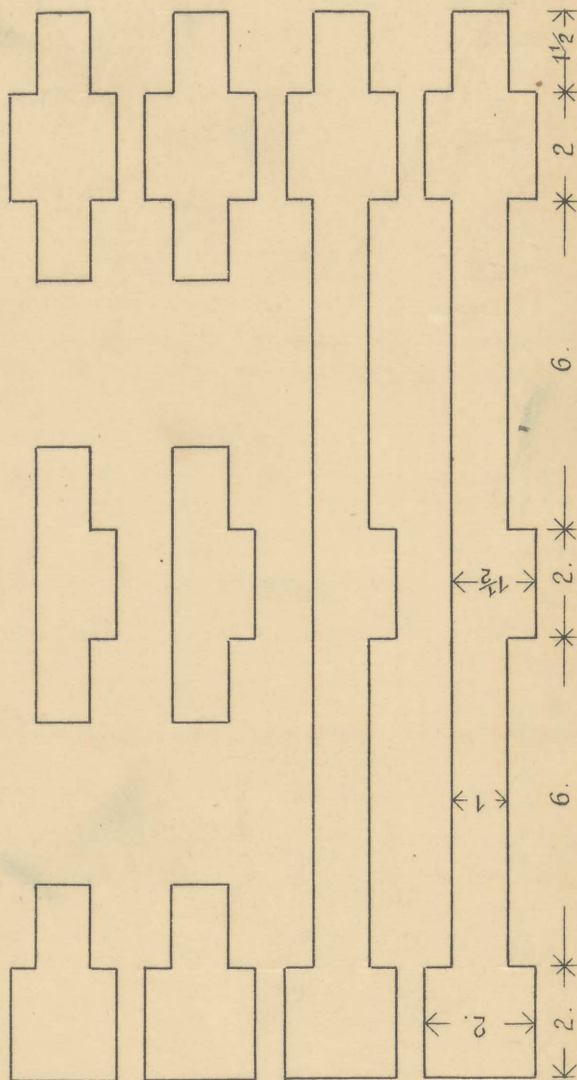
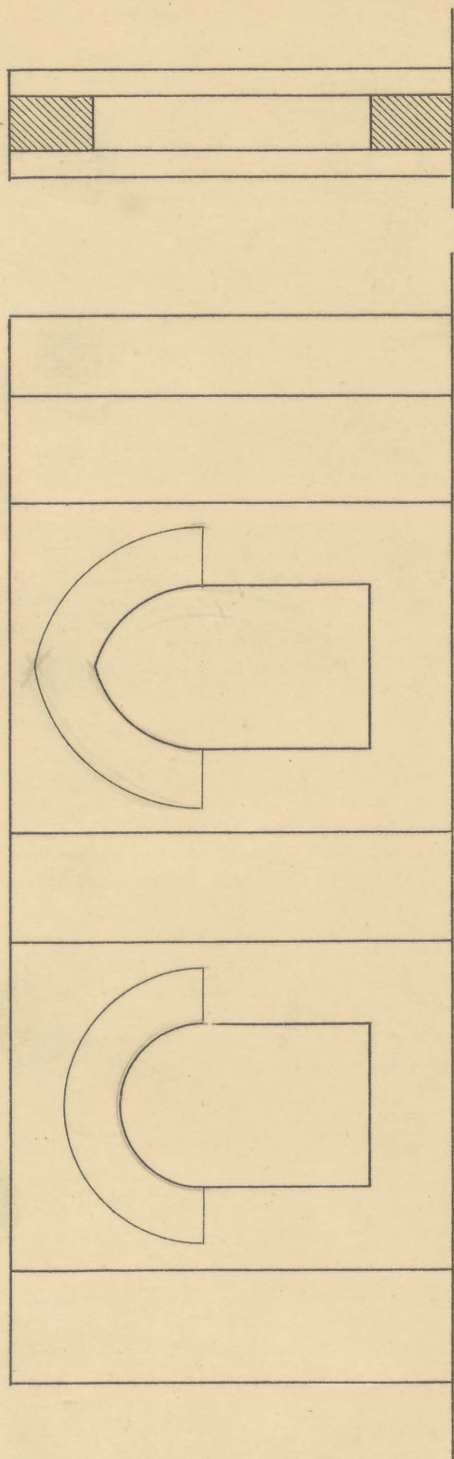


Opgaven tegnes i 1 1/2 Tom. pr. Alen.



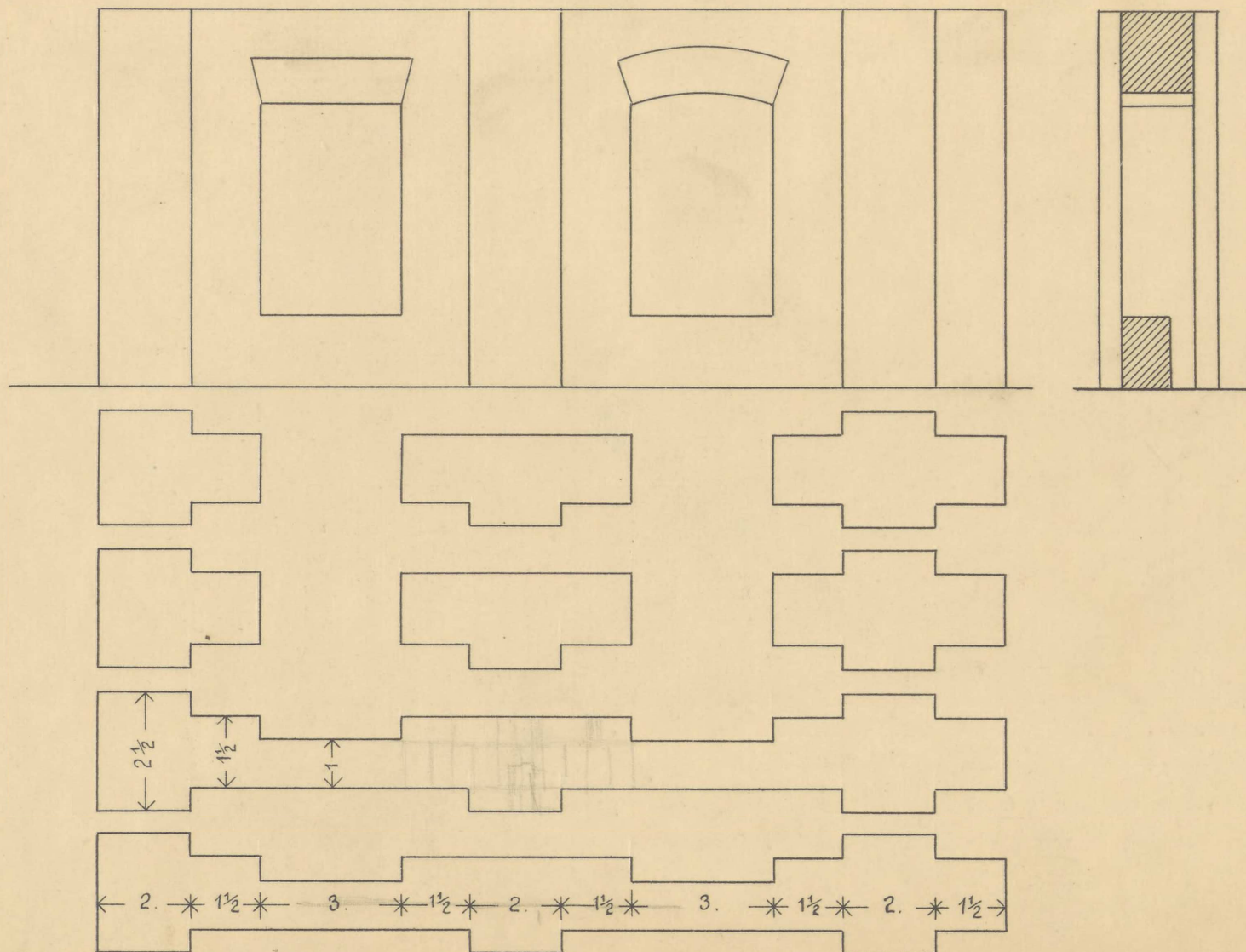
Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

D¹



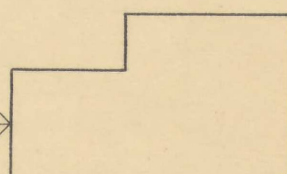
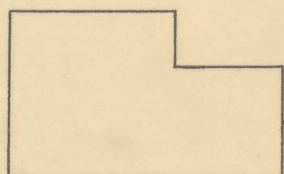
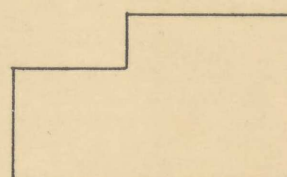
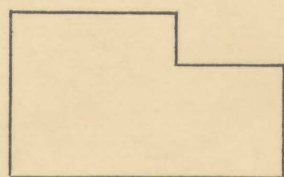
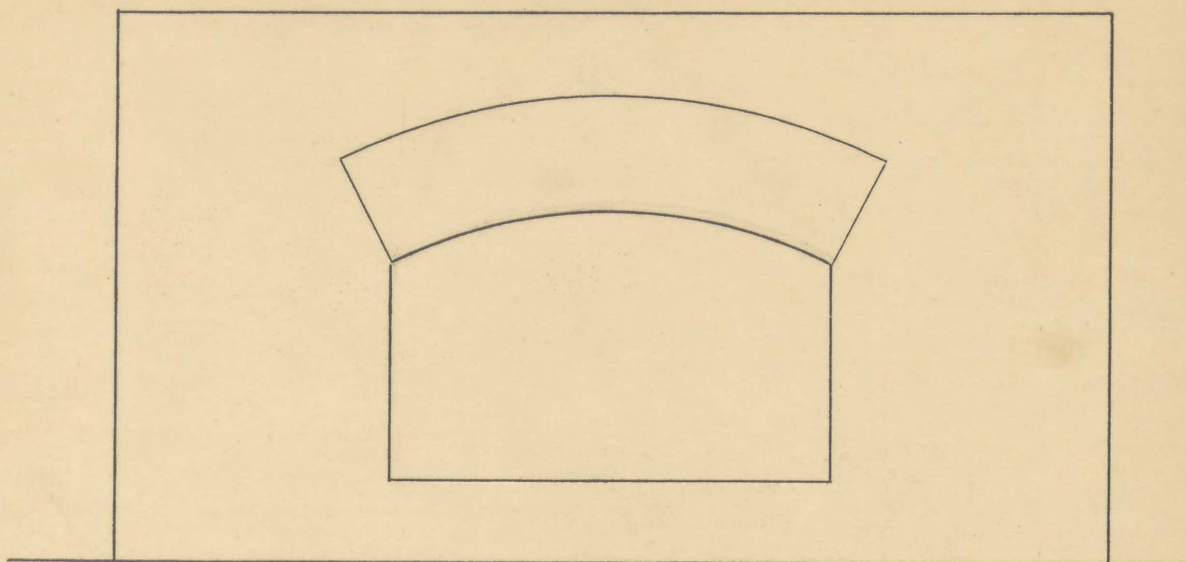
Opgaven tegnes i 1¹/₂ Tom. pr. Alen.

D²

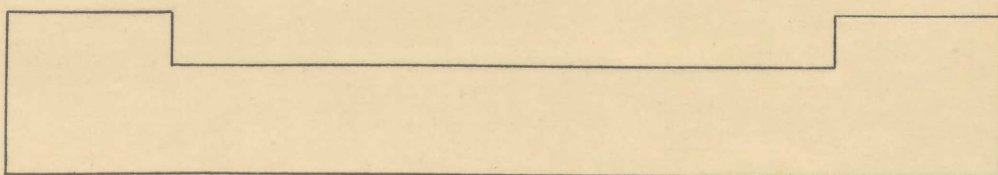


Opgaven tegnes i 1 1/2 Tom. pr. Alen.

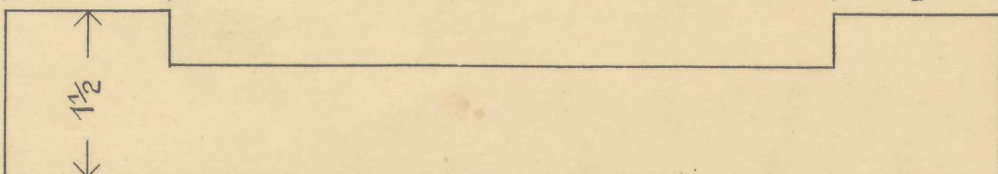
D³



← 4. →



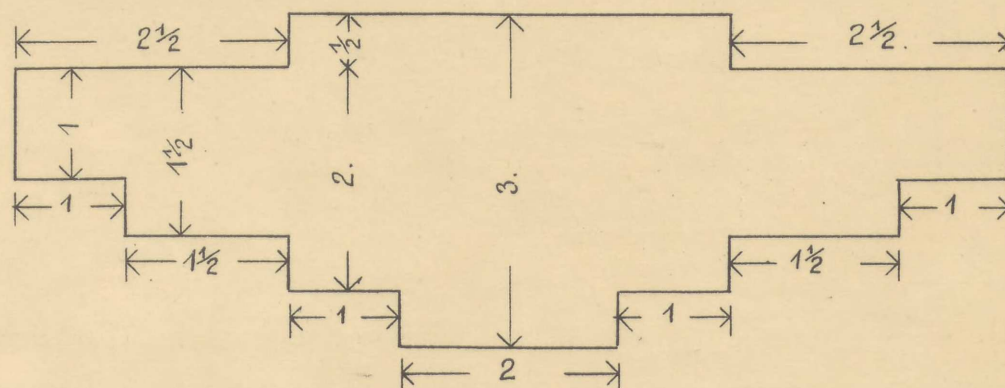
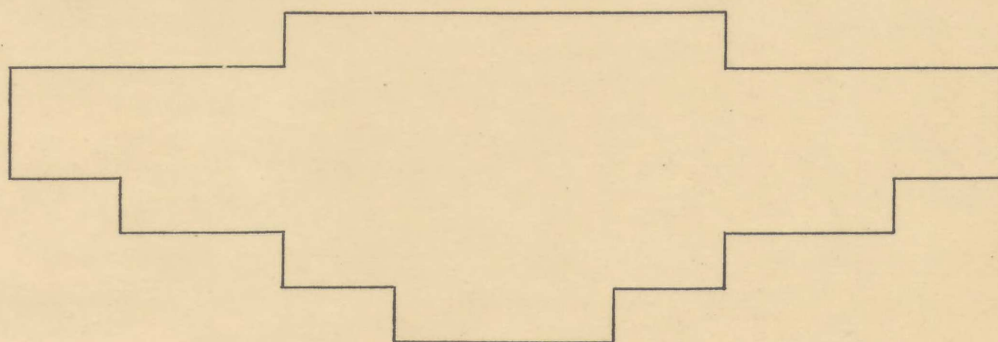
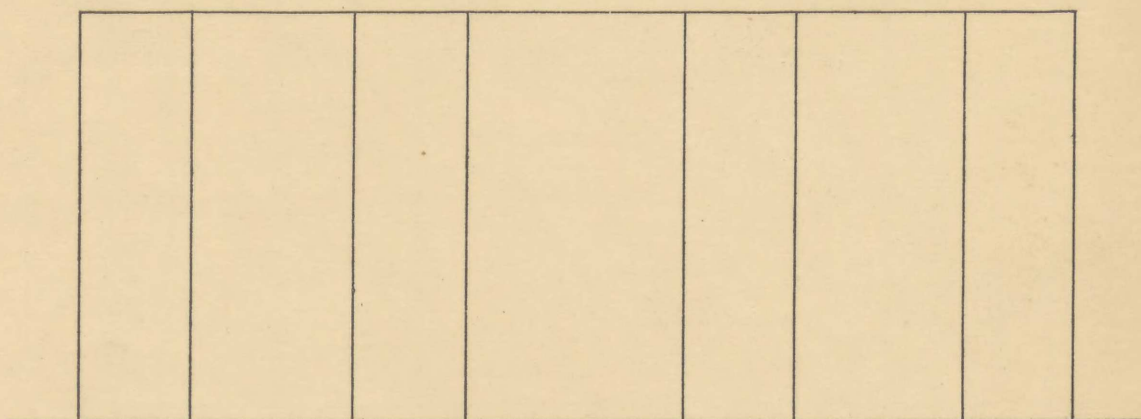
← 1½ * ————— 6. ————— * 1½ →



← ————— 9. ————— →

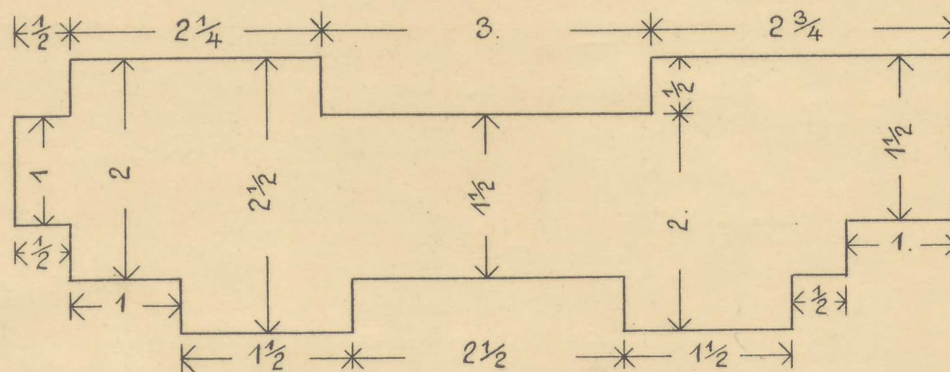
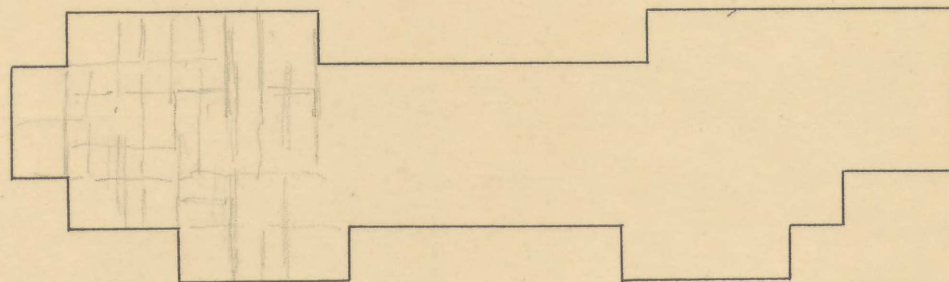
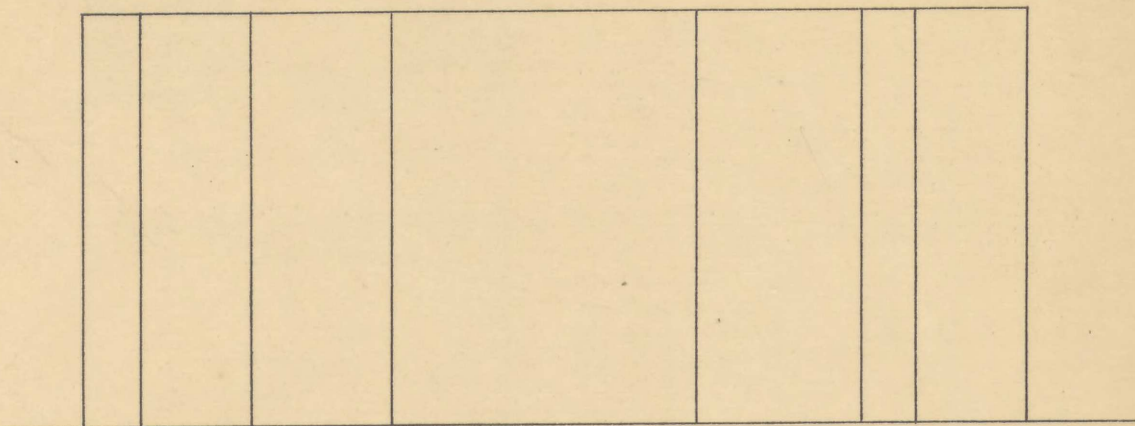
Opgaven tegnes i 3 Tom. pr. Alen.

E¹



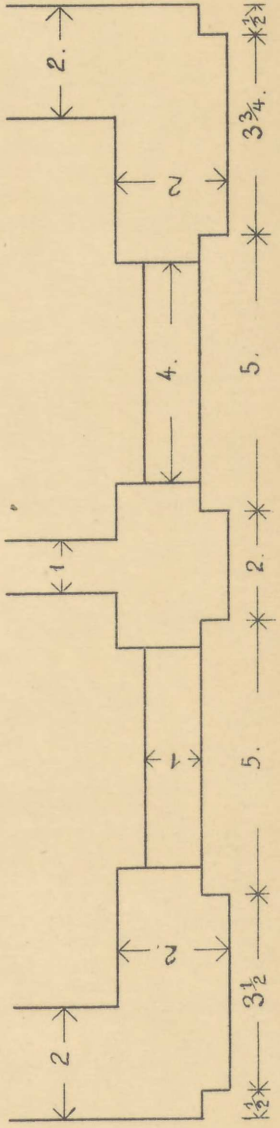
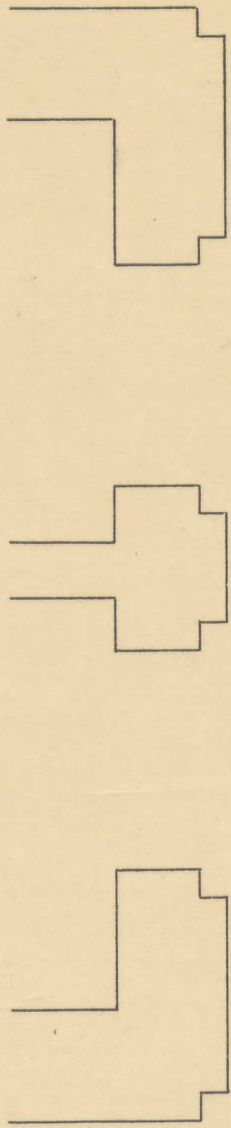
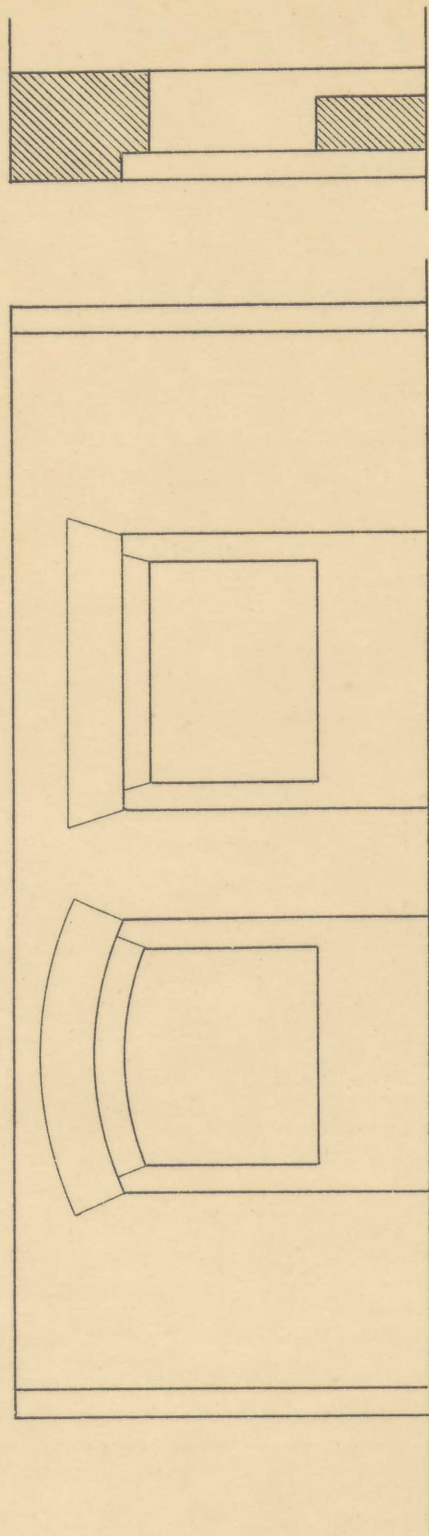
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E²



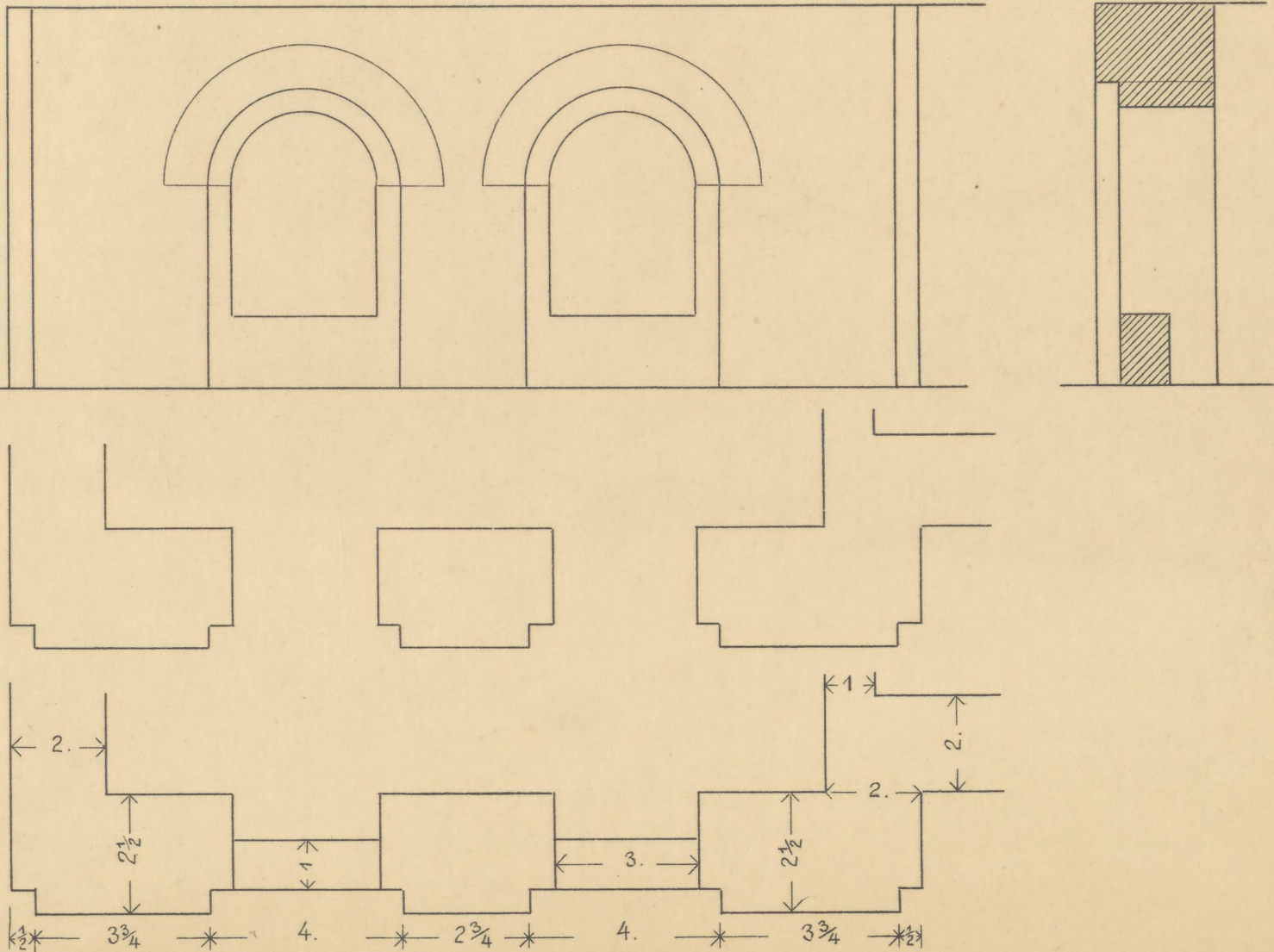
Opgaven tegnes i 3 Tom. pr. Alen.

F



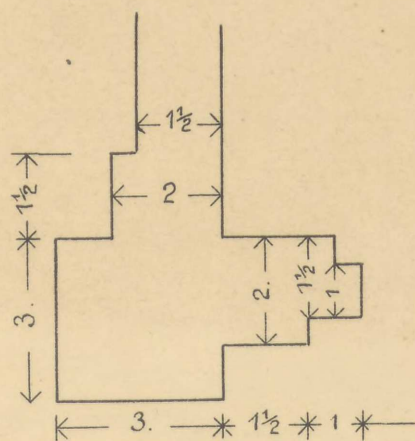
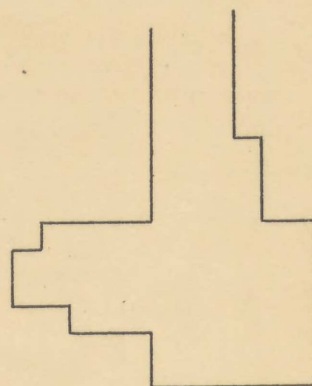
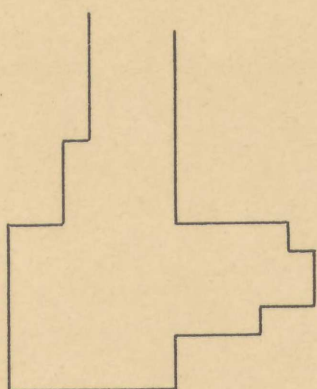
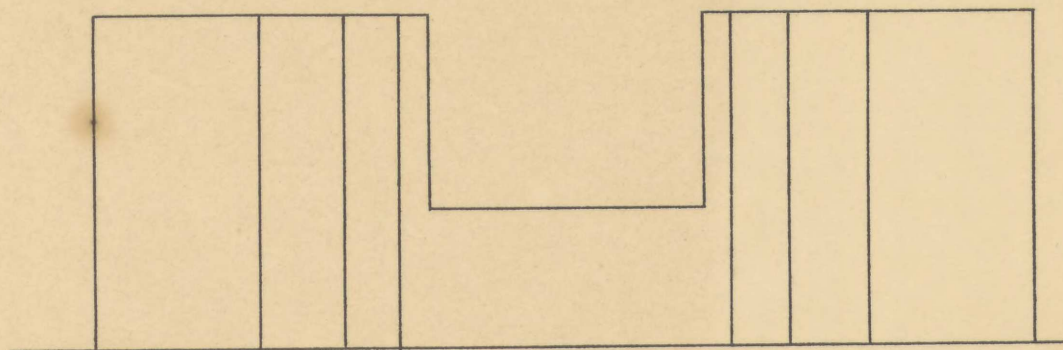
Opgaven tegnes i 1 1/2 Tom. pr. Alen.

F2

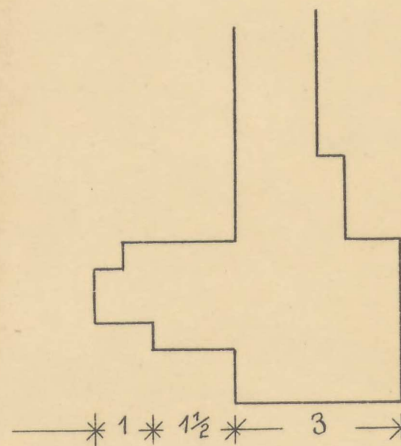


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

F³

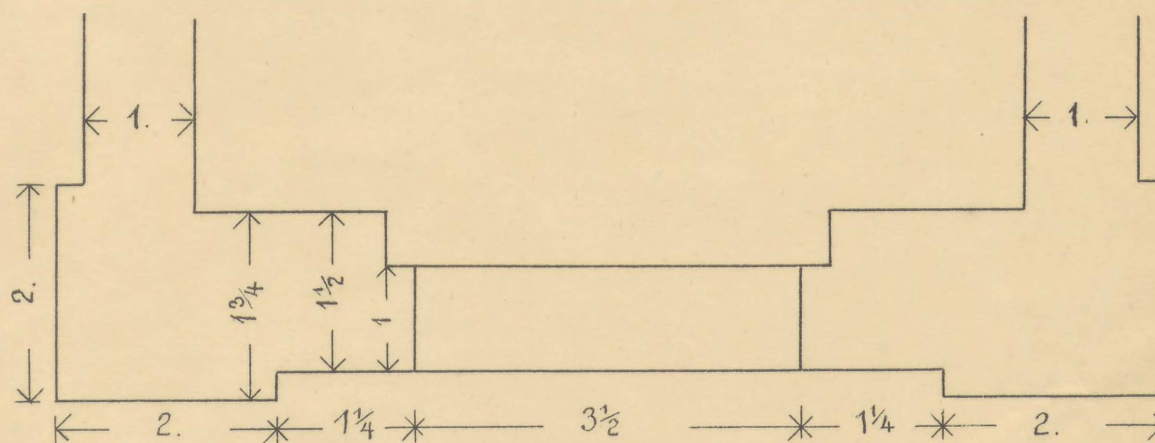
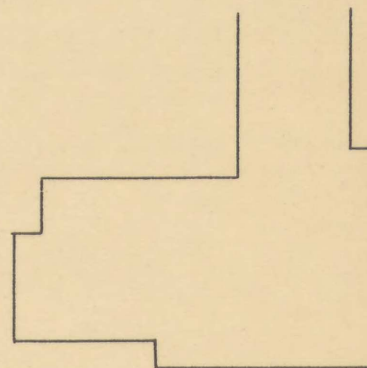
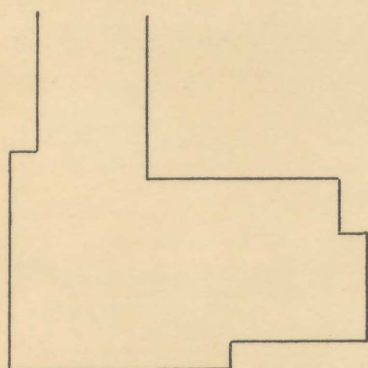
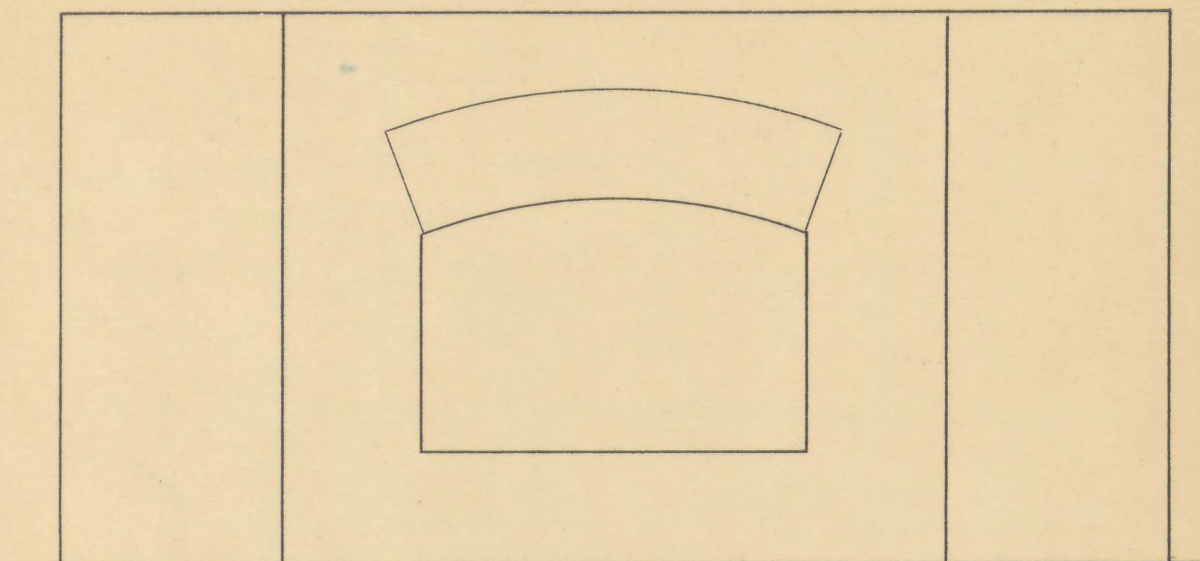


6



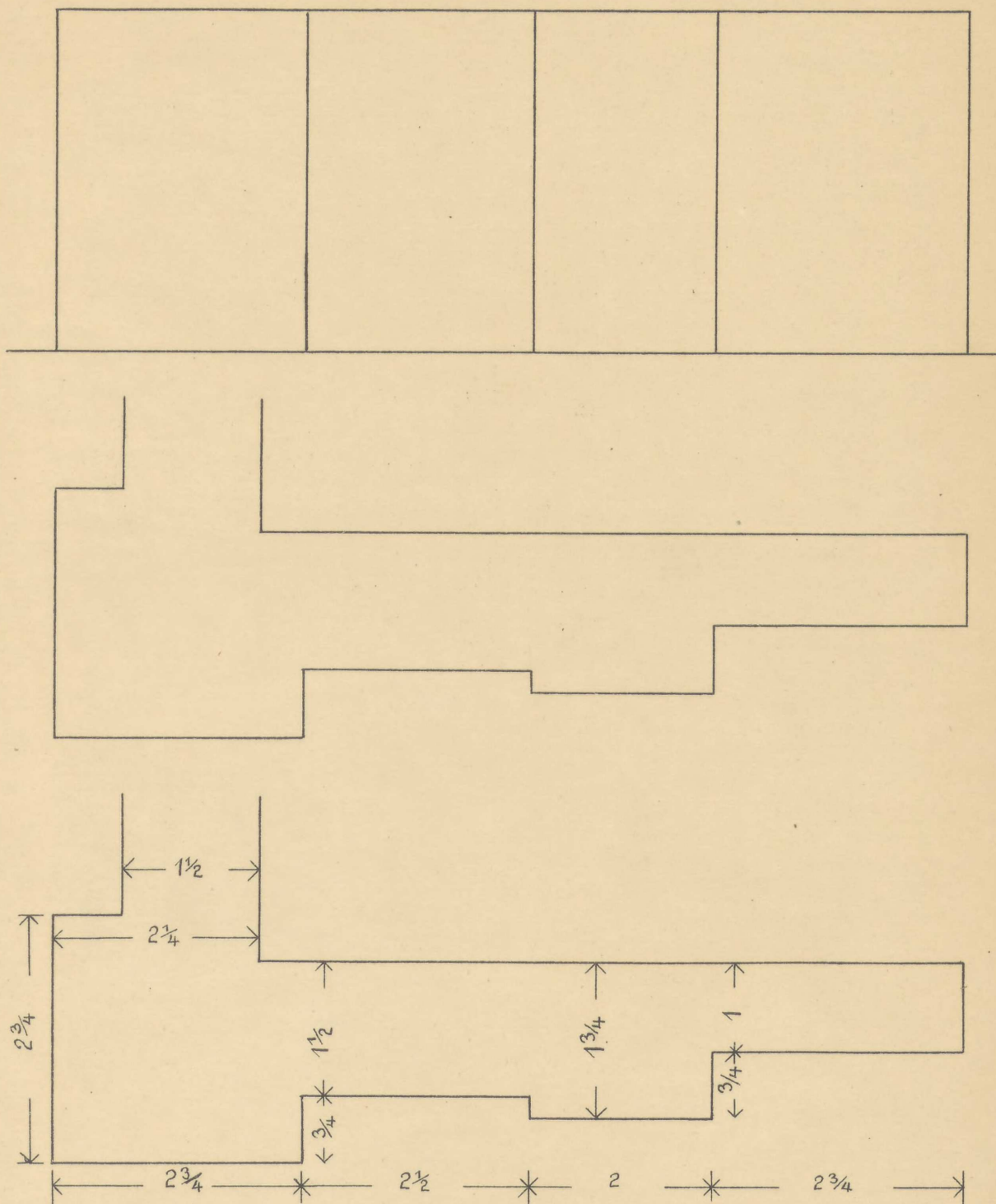
Opgaven tegnes i 1¹/₂ Tom. pr. Alen.

G¹

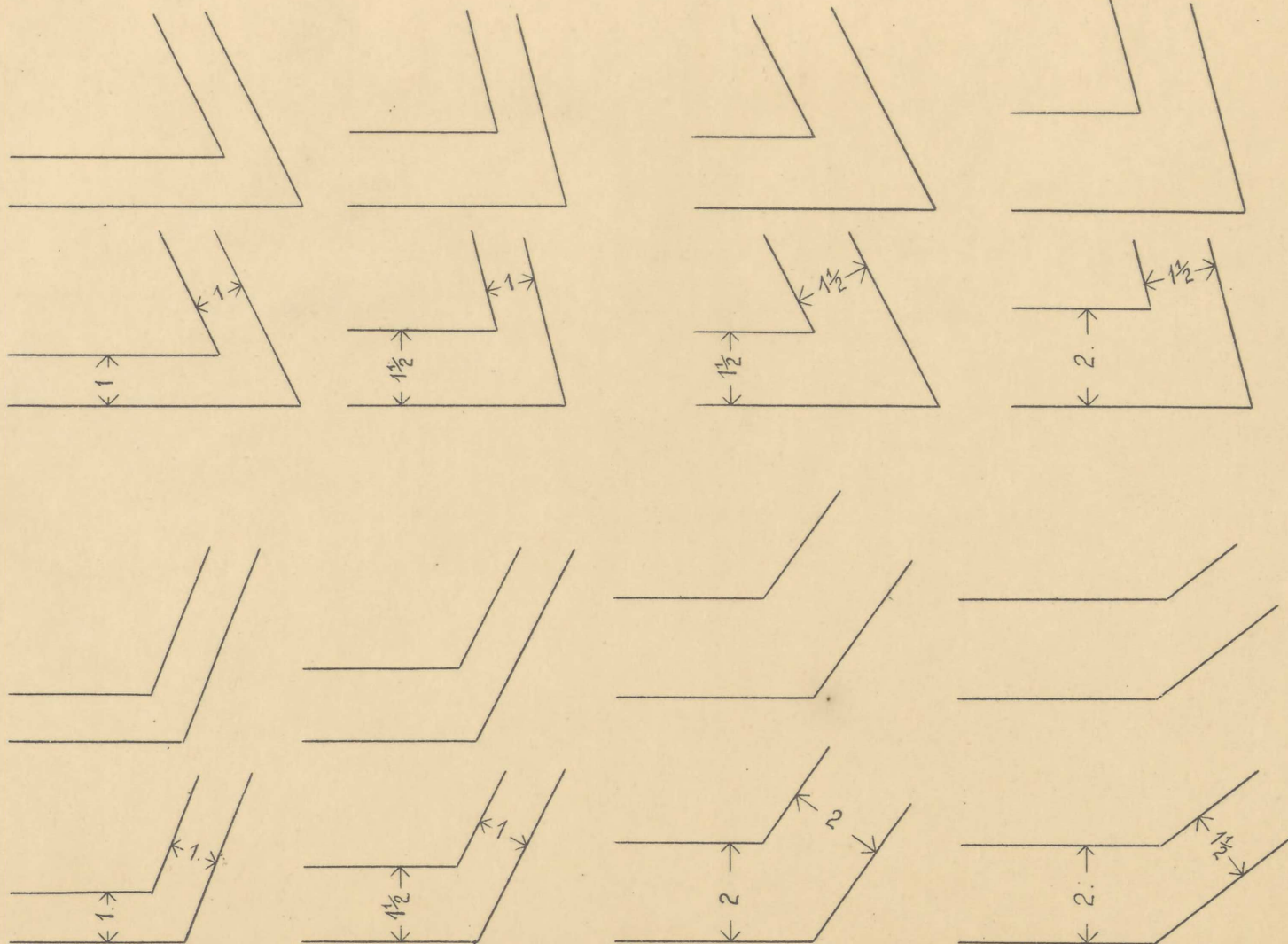


Opgaven tegnes i 3 Tom. pr. Alen.

G²

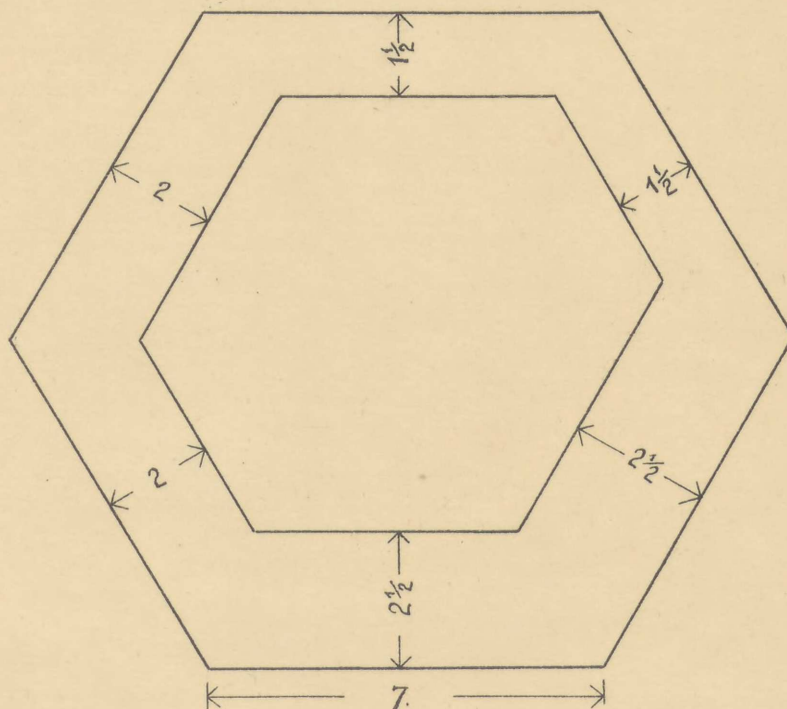
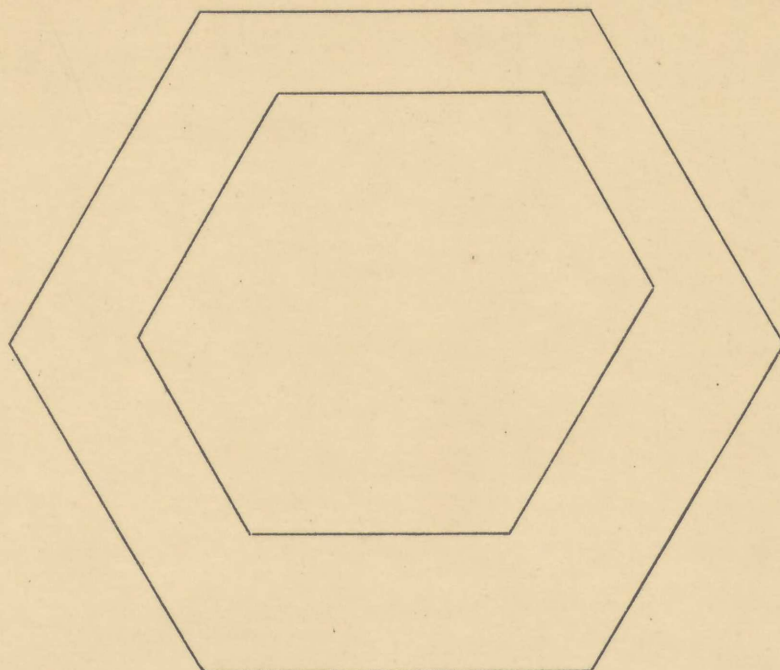


Opgaven tegnes i 3 Tom. pr. Alen.

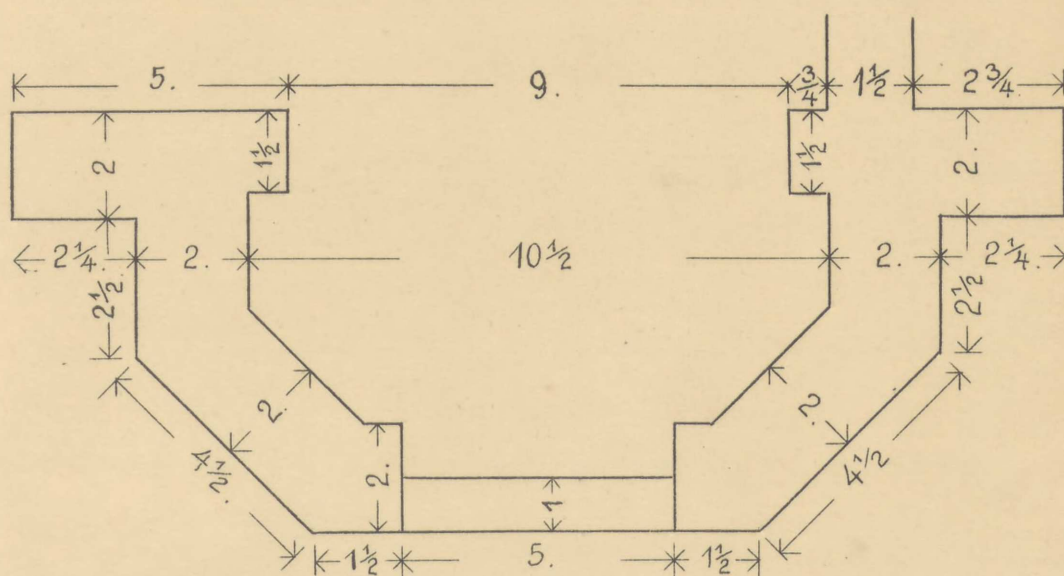
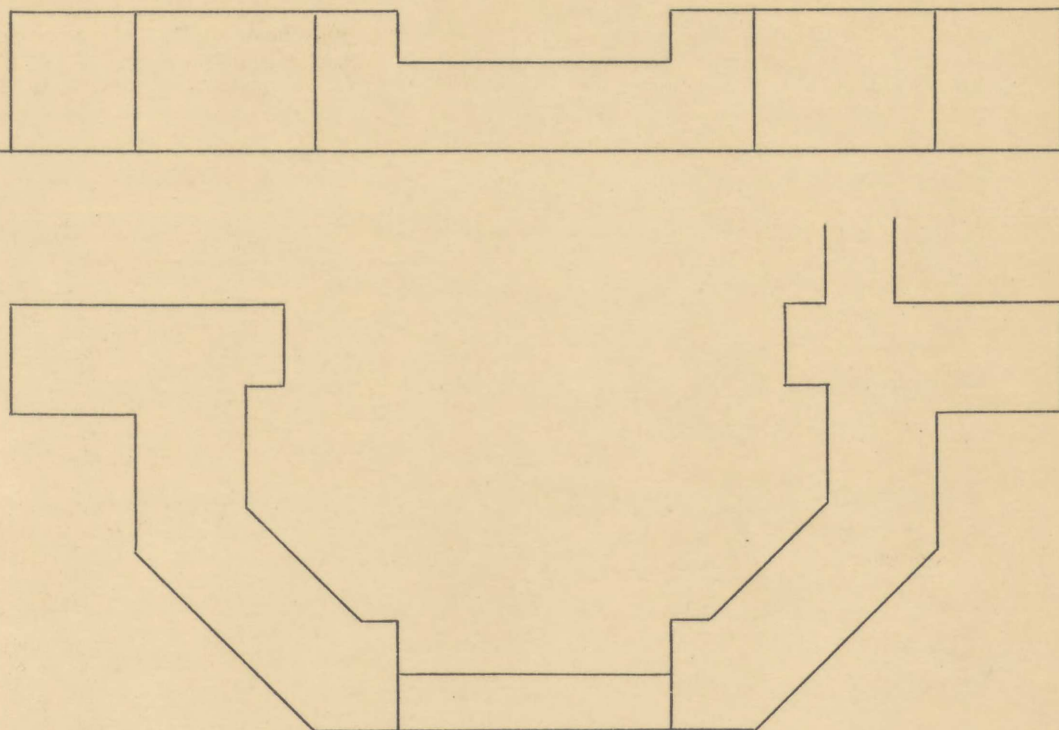
H¹

Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

H²

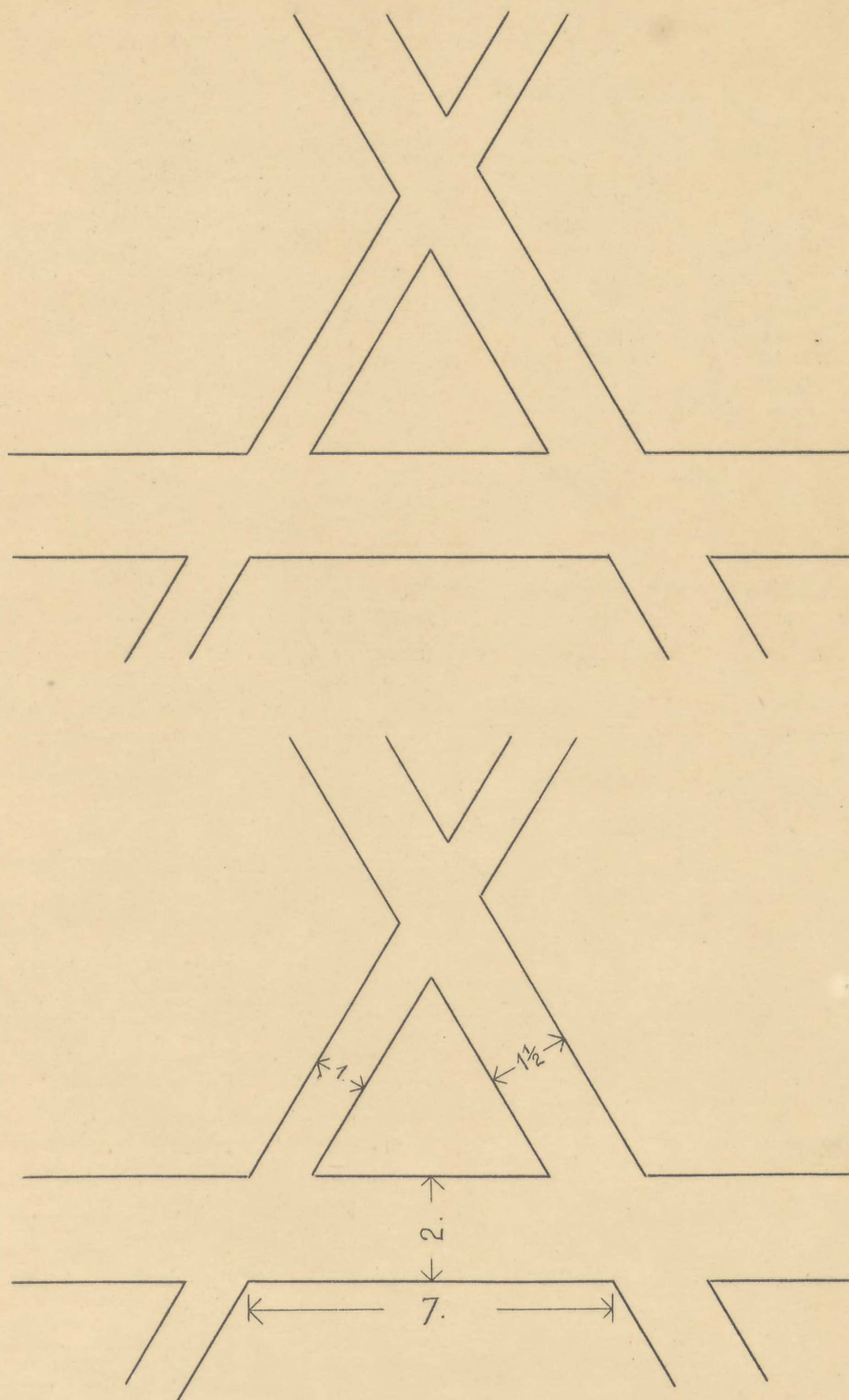


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

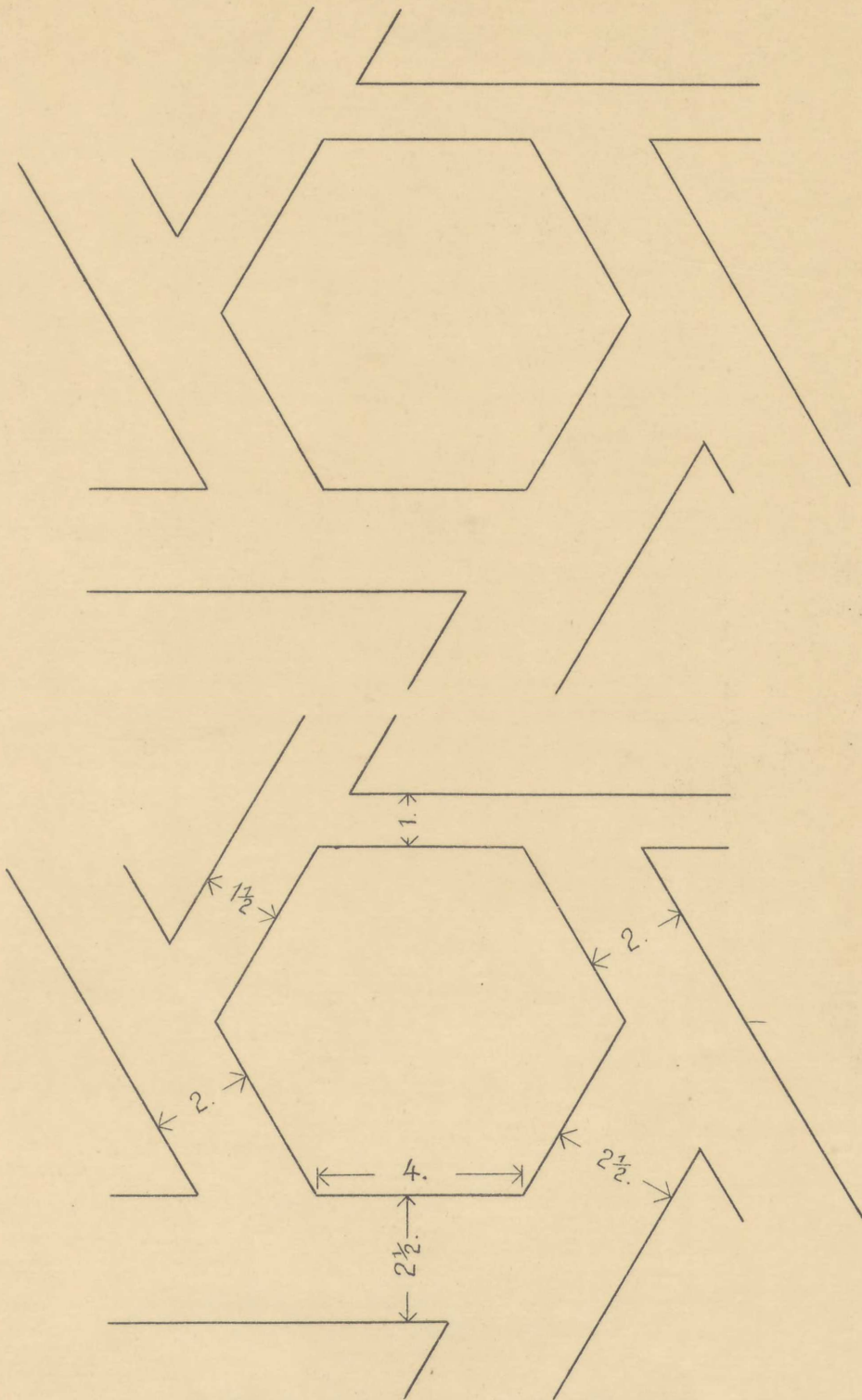


Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

J¹

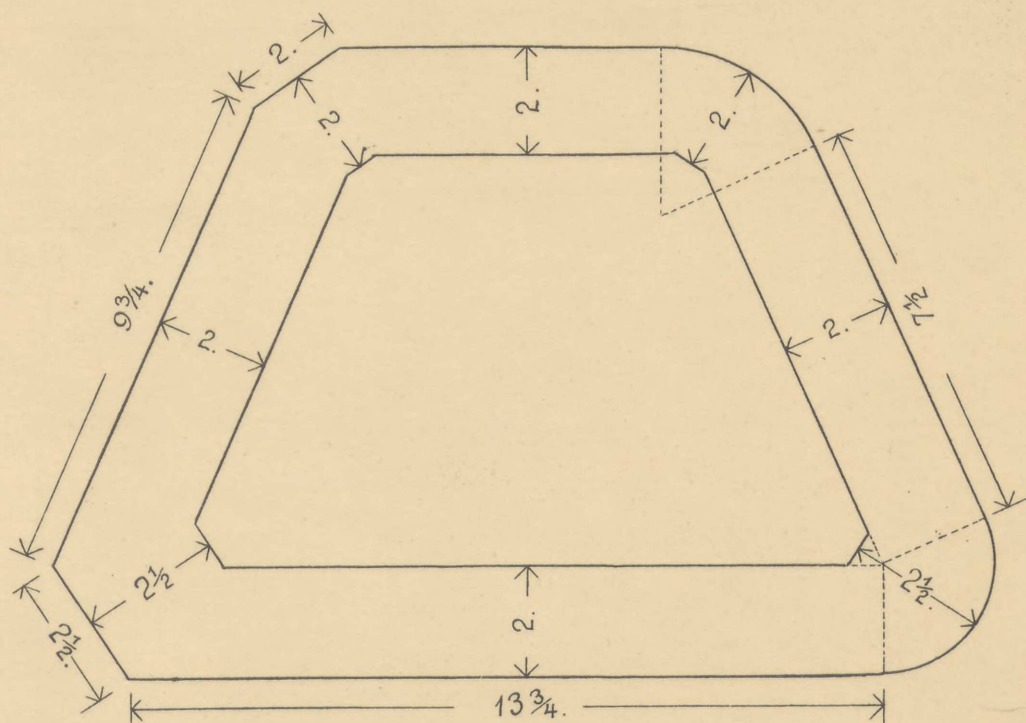
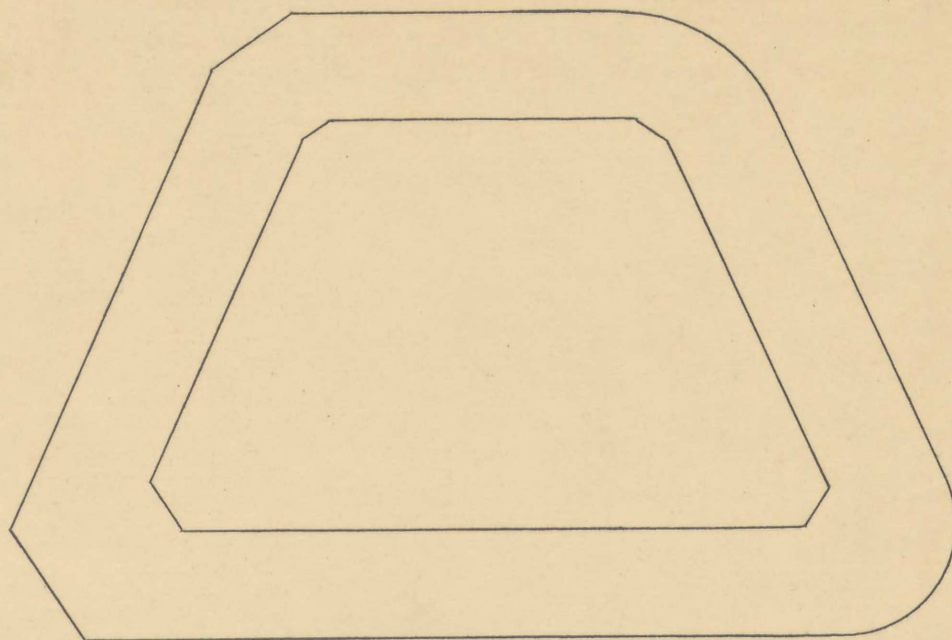


Opgaven tegnes i 1½ Tom. pr. Alen.



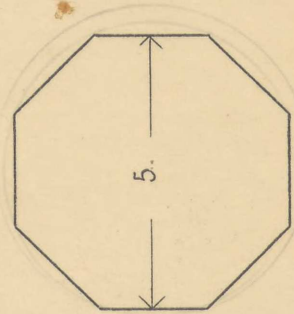
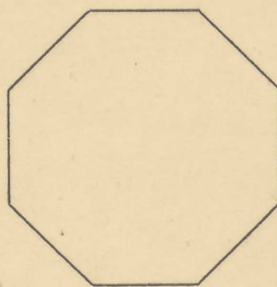
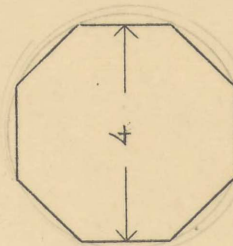
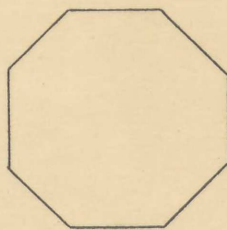
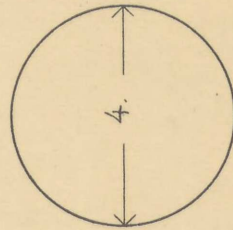
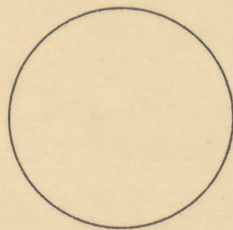
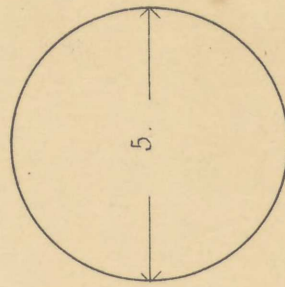
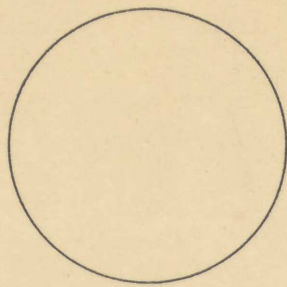
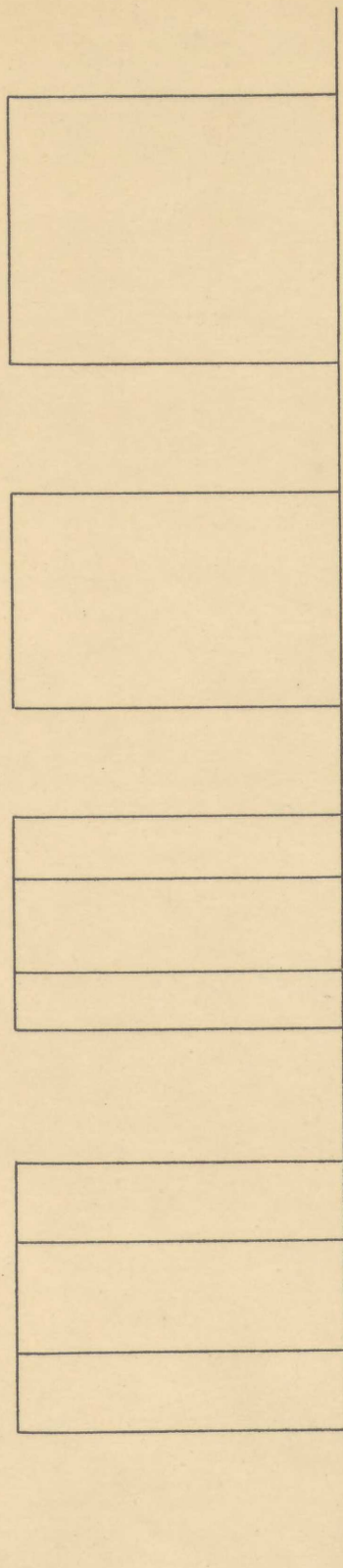
Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

K¹



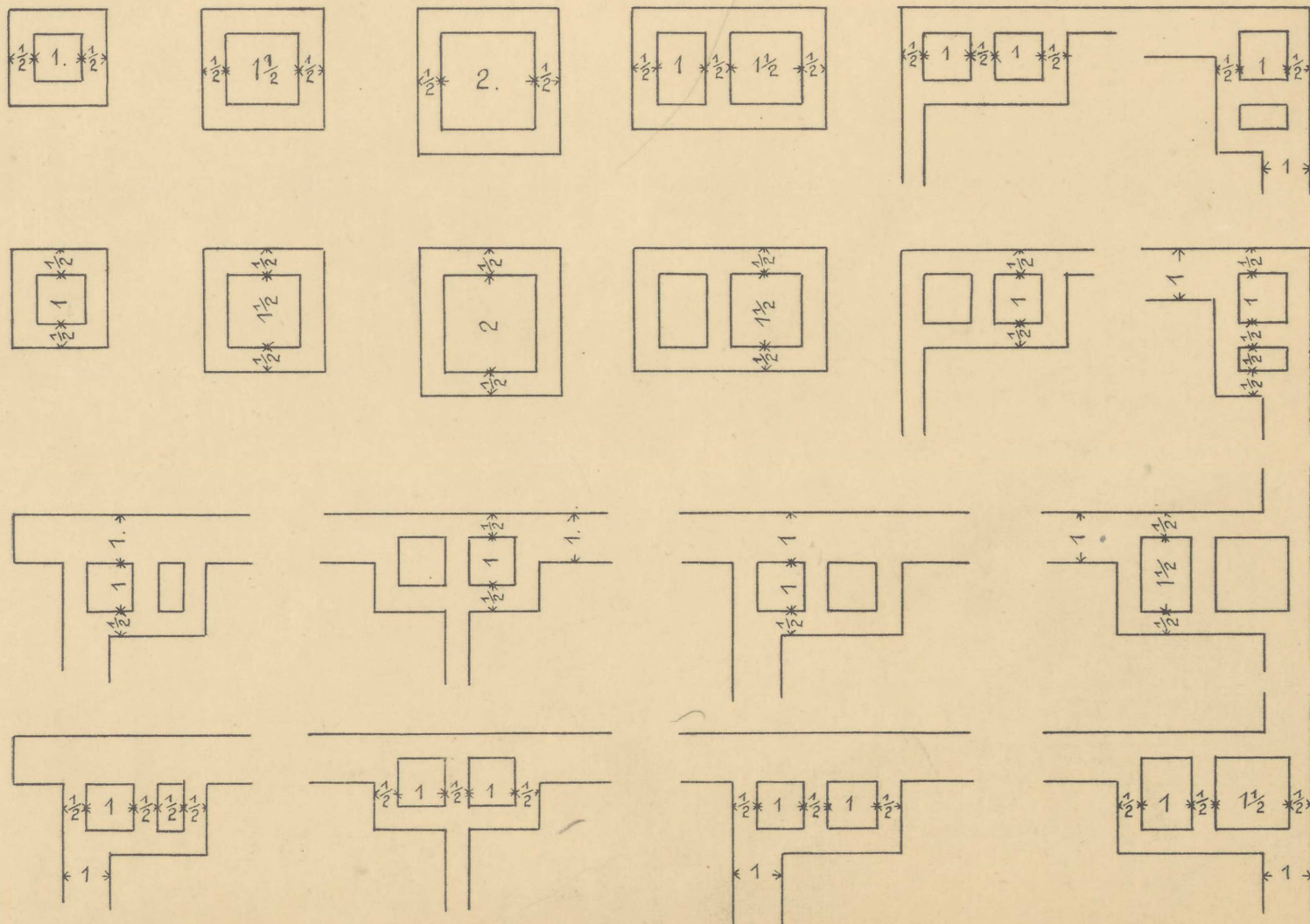
Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.

L¹



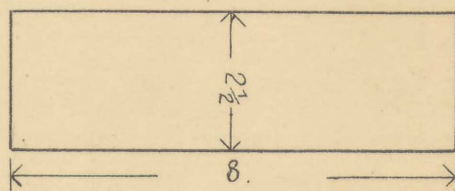
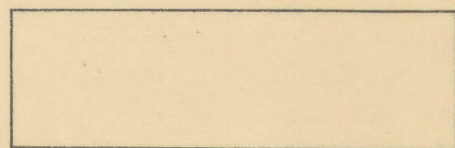
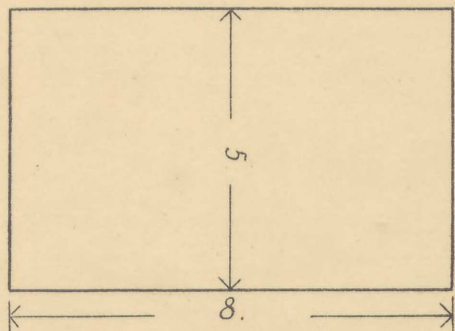
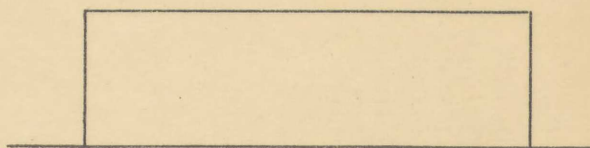
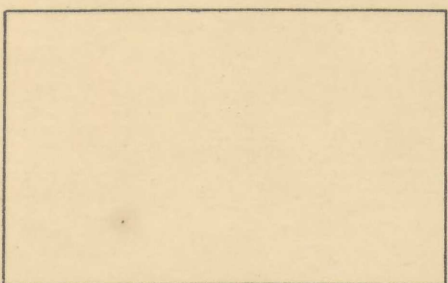
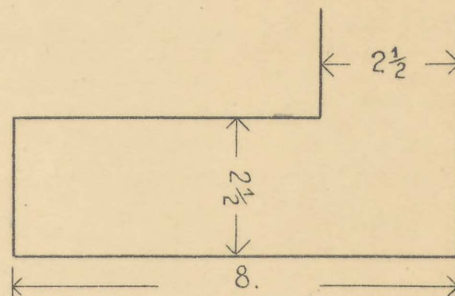
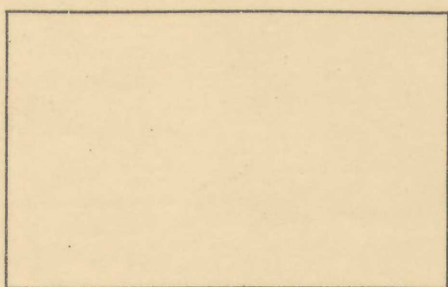
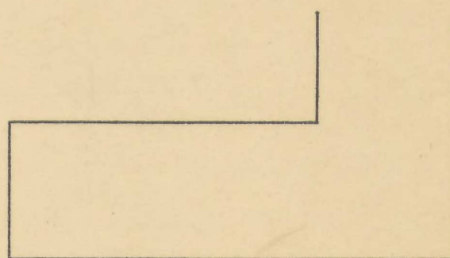
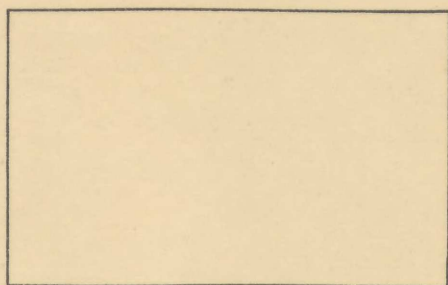
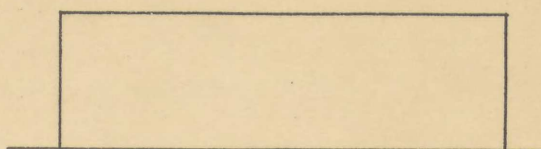
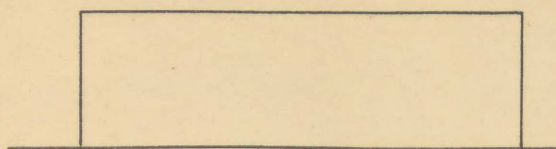
Opgaven tegnes i 1¹/₂ Tom. pr. Alen.

M¹

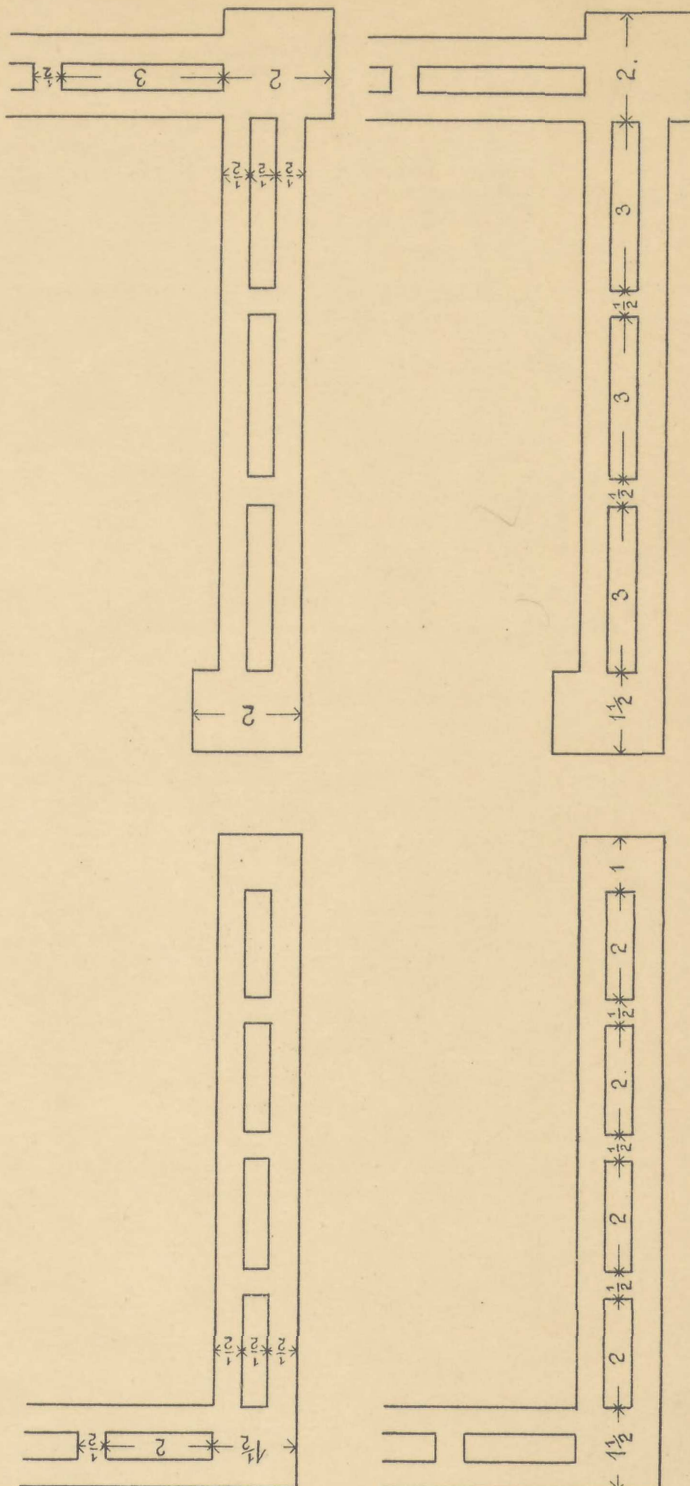


Opgaven tegnes i 1 1/2 Tom. pr. Alen.

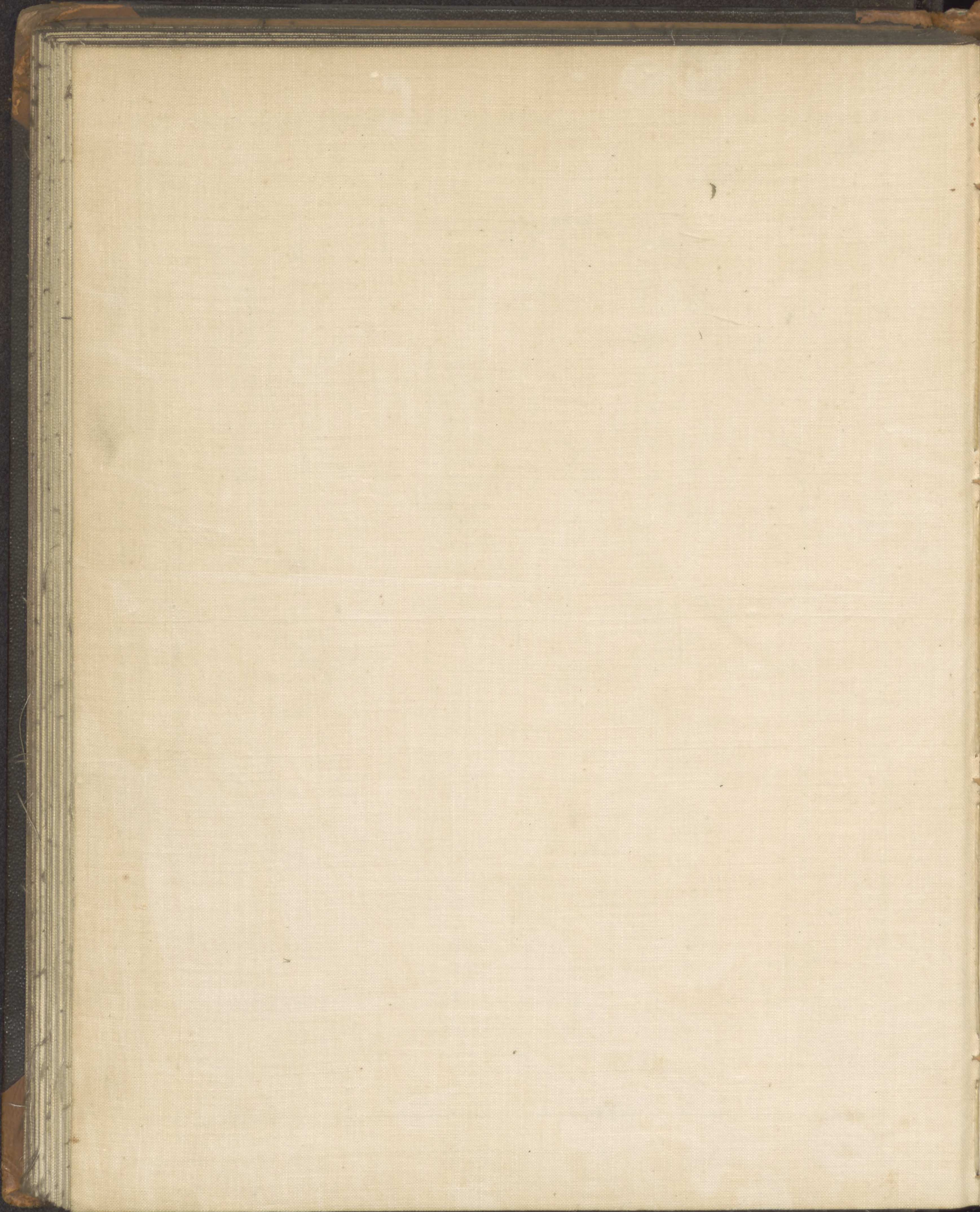
N¹

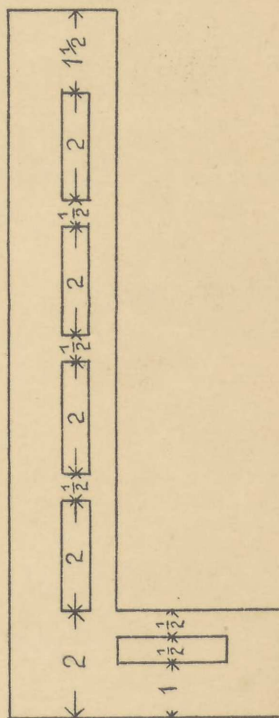
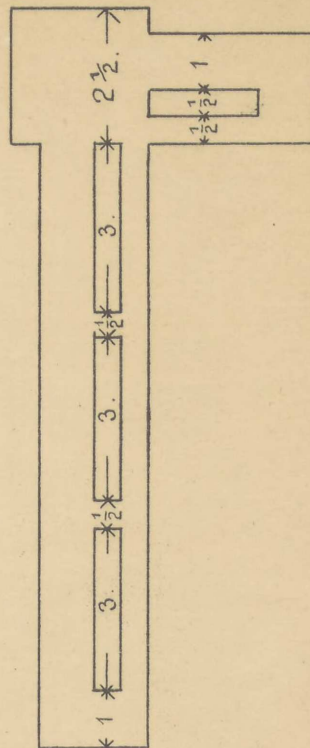
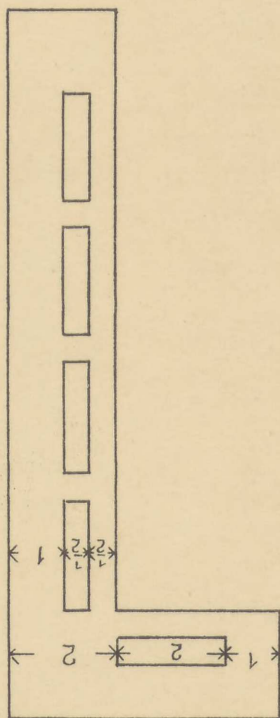
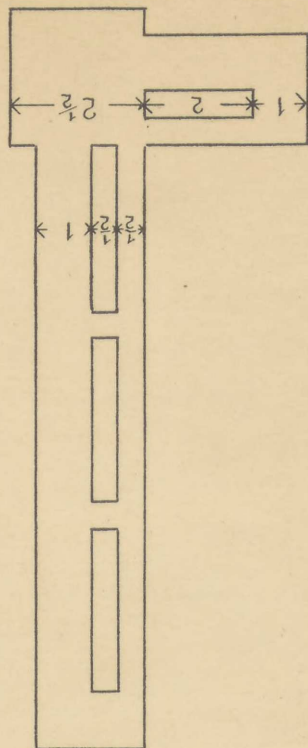


Opgaven tegnes i 1 $\frac{1}{2}$ Tom. pr. Alen.

[illegible]

Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.



[illegible]

Opgaven tegnes i $1\frac{1}{2}$ Tom. pr. Alen.



