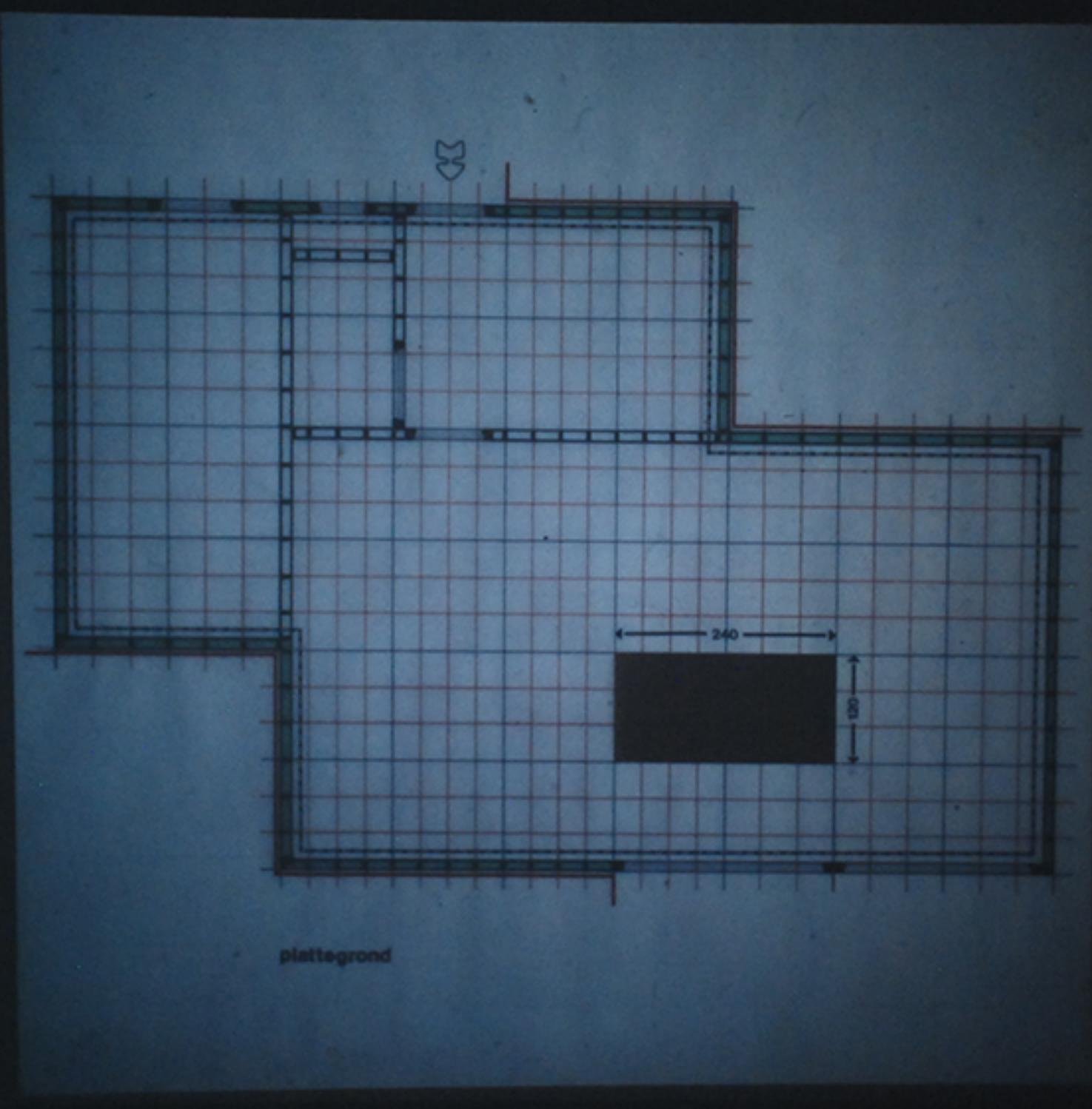
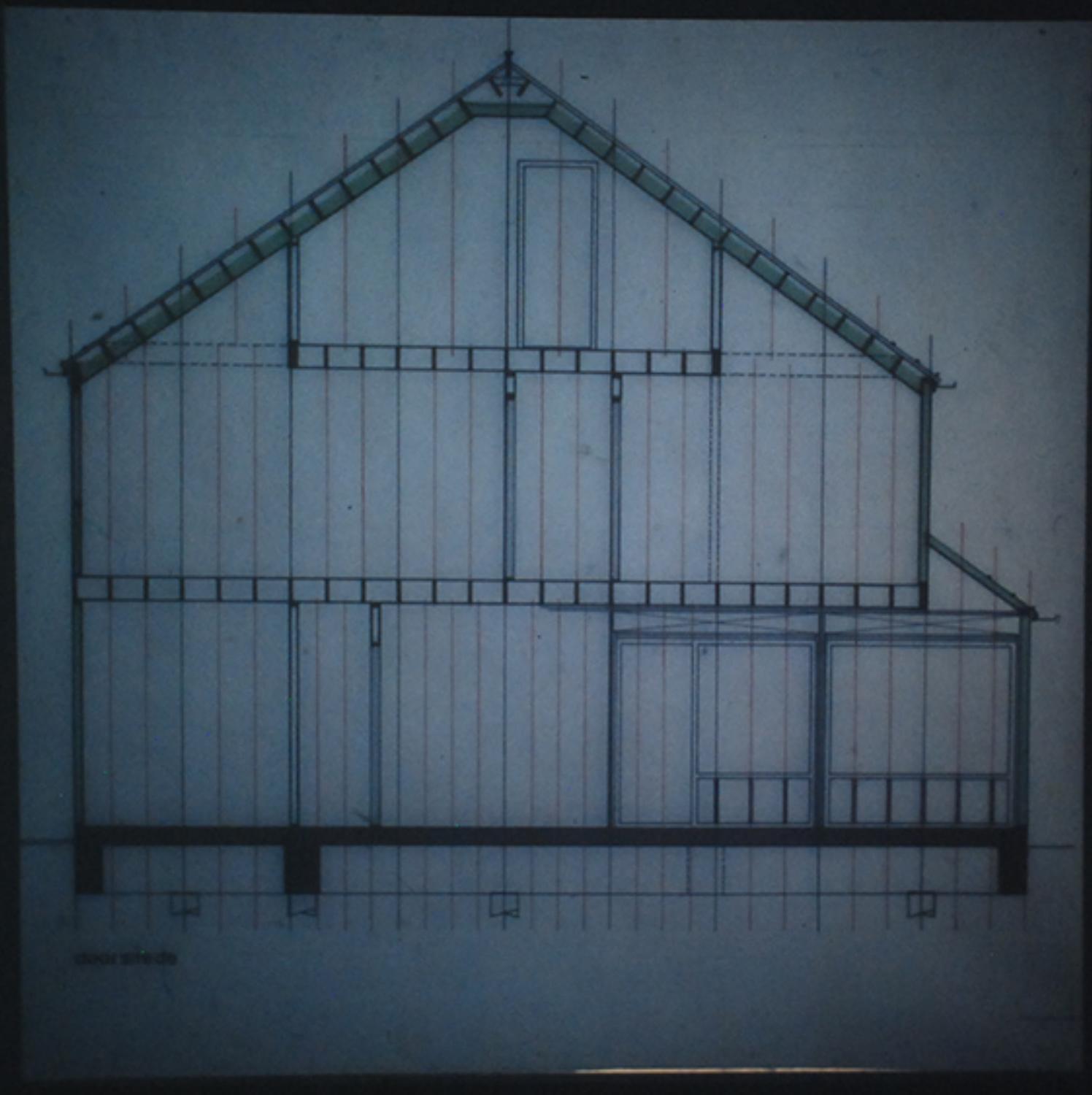


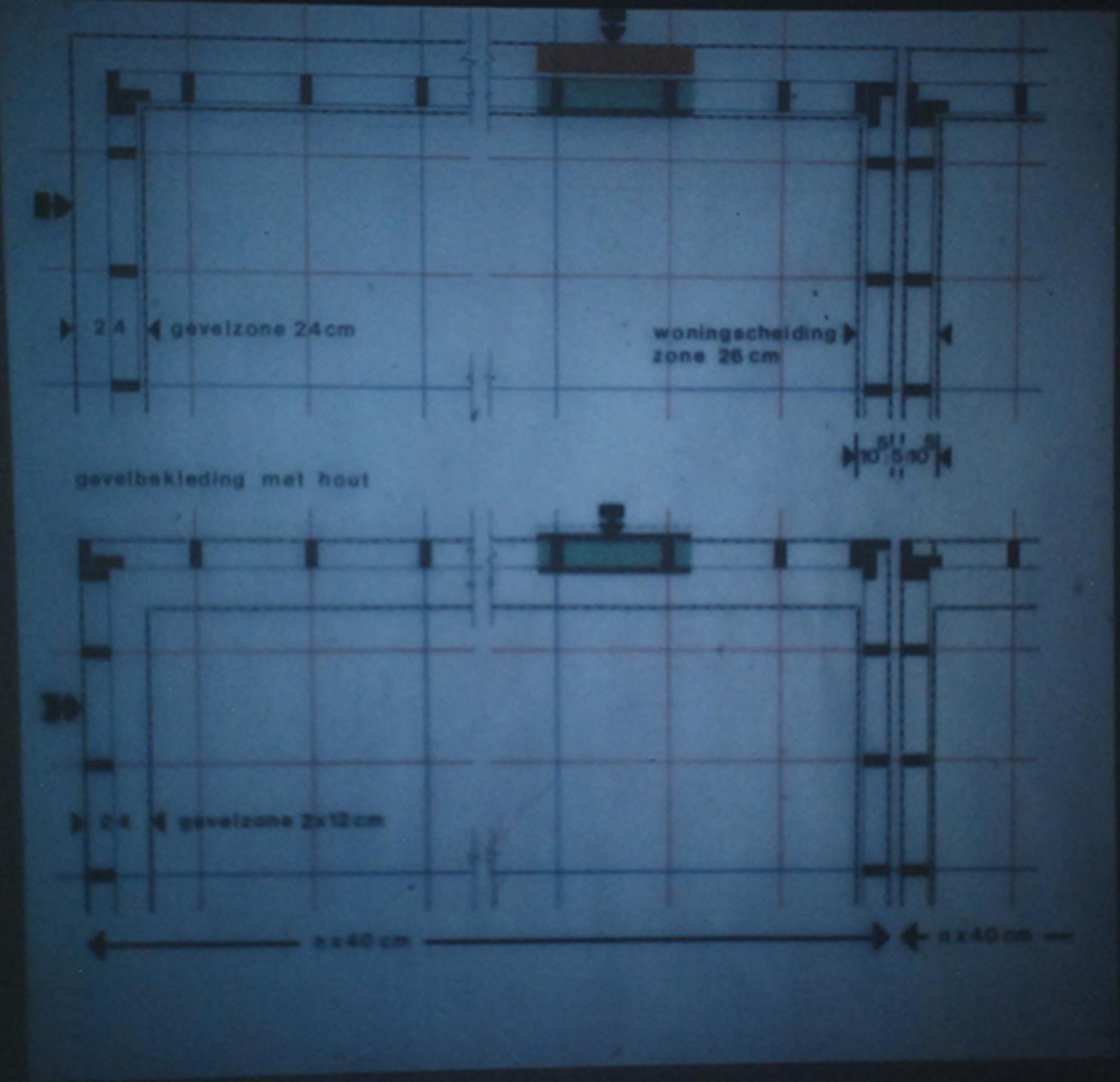
DSC_1763 1976 HSB project in Canada .JPG



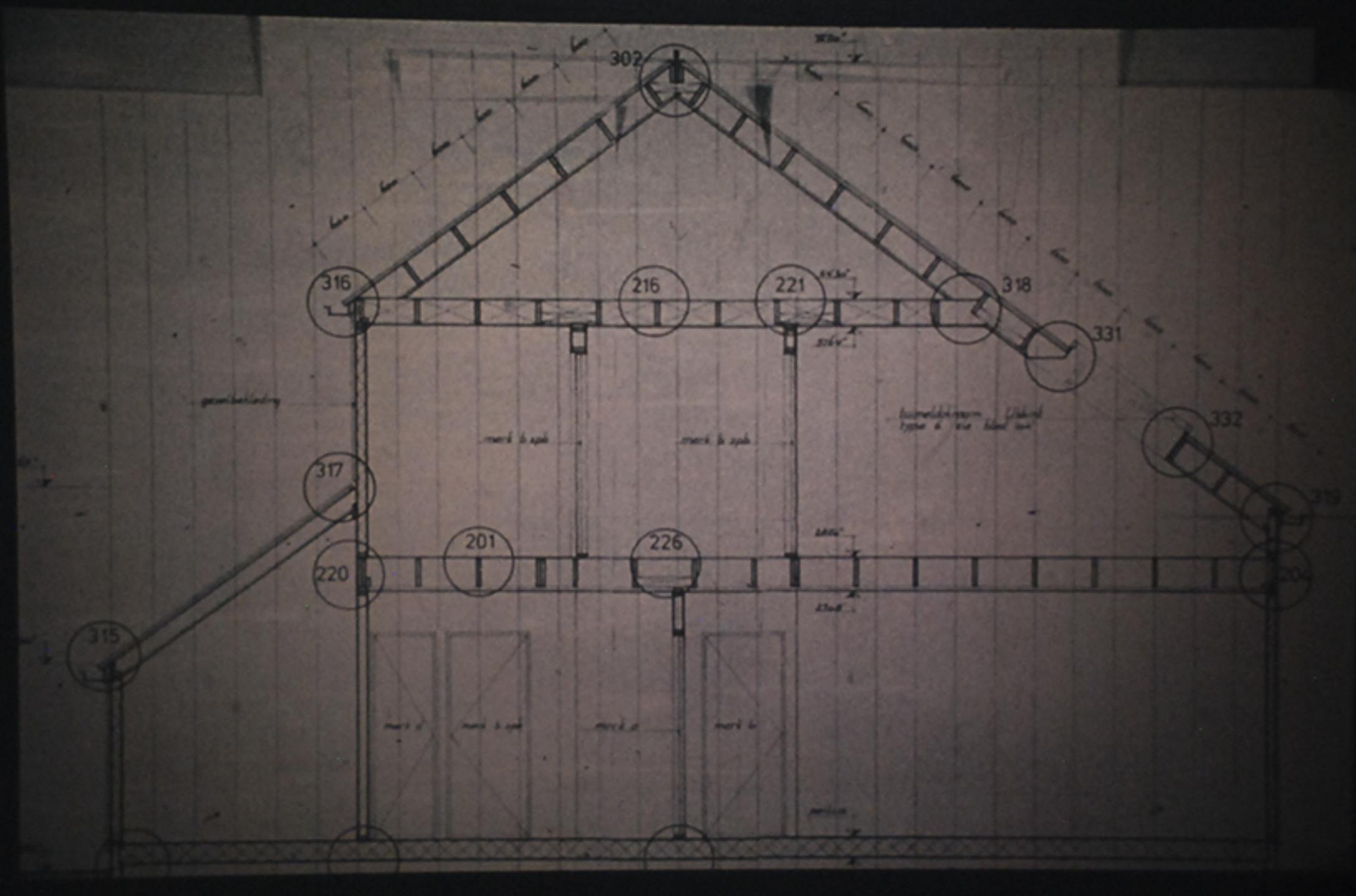
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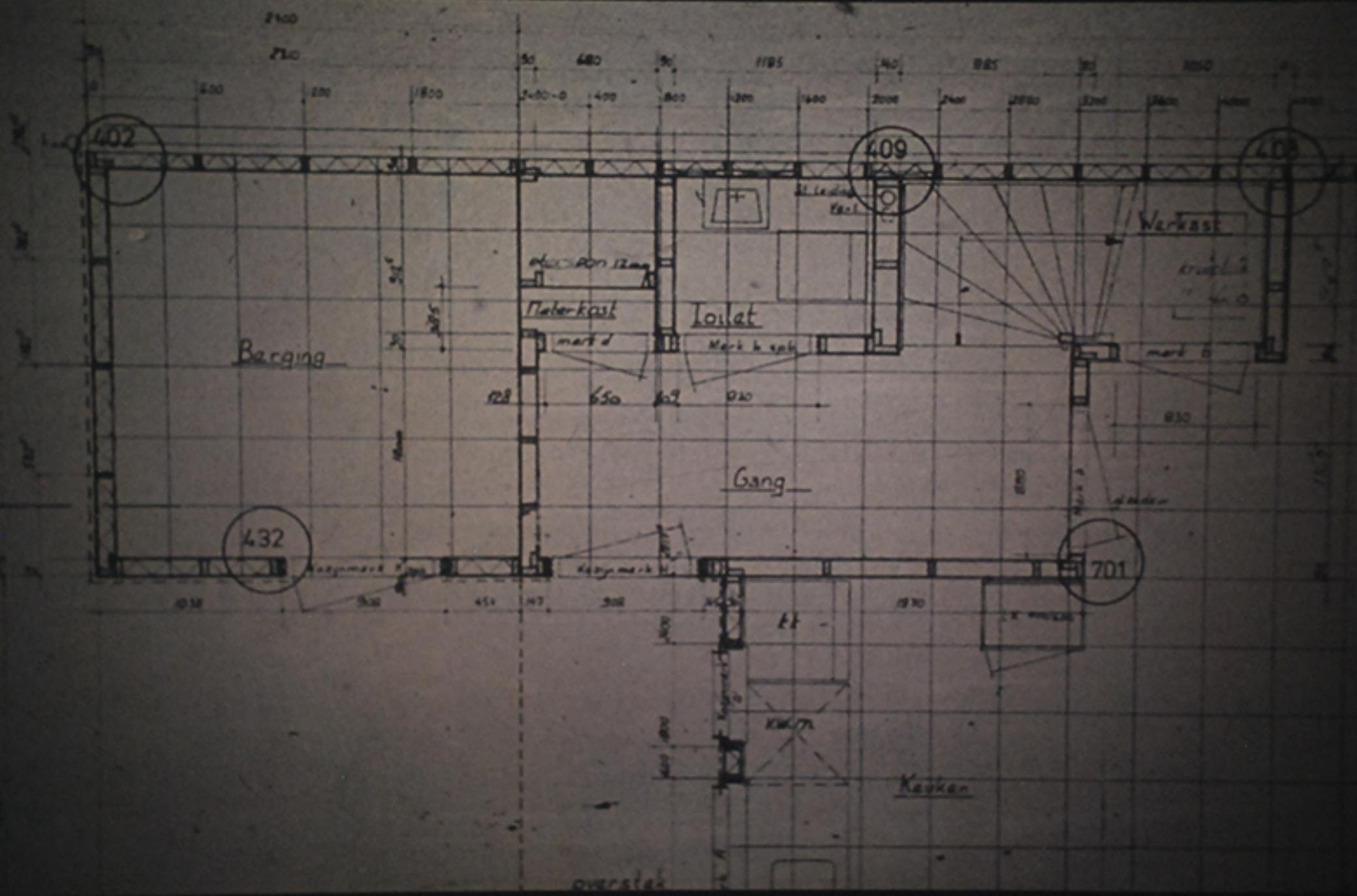
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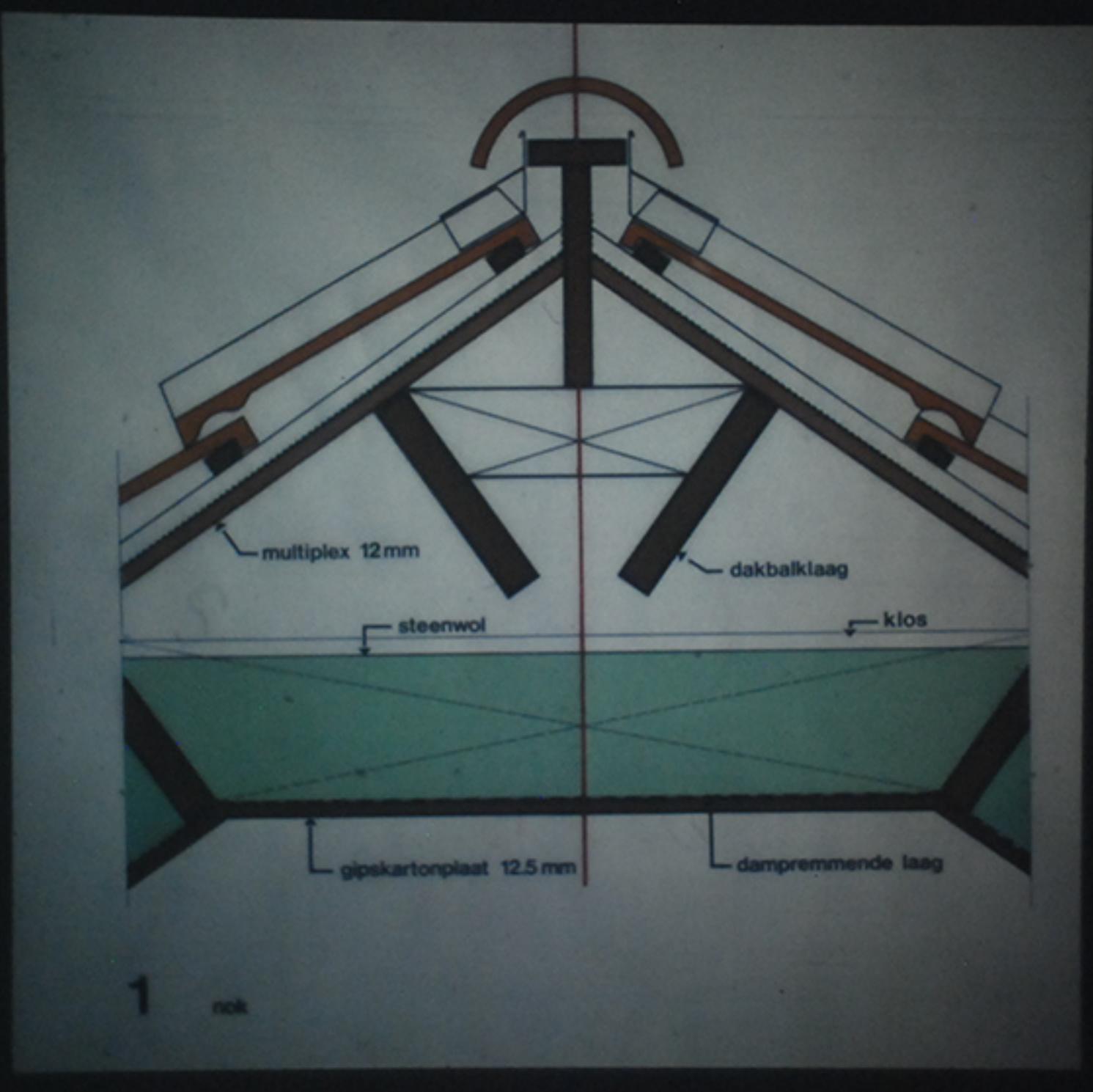
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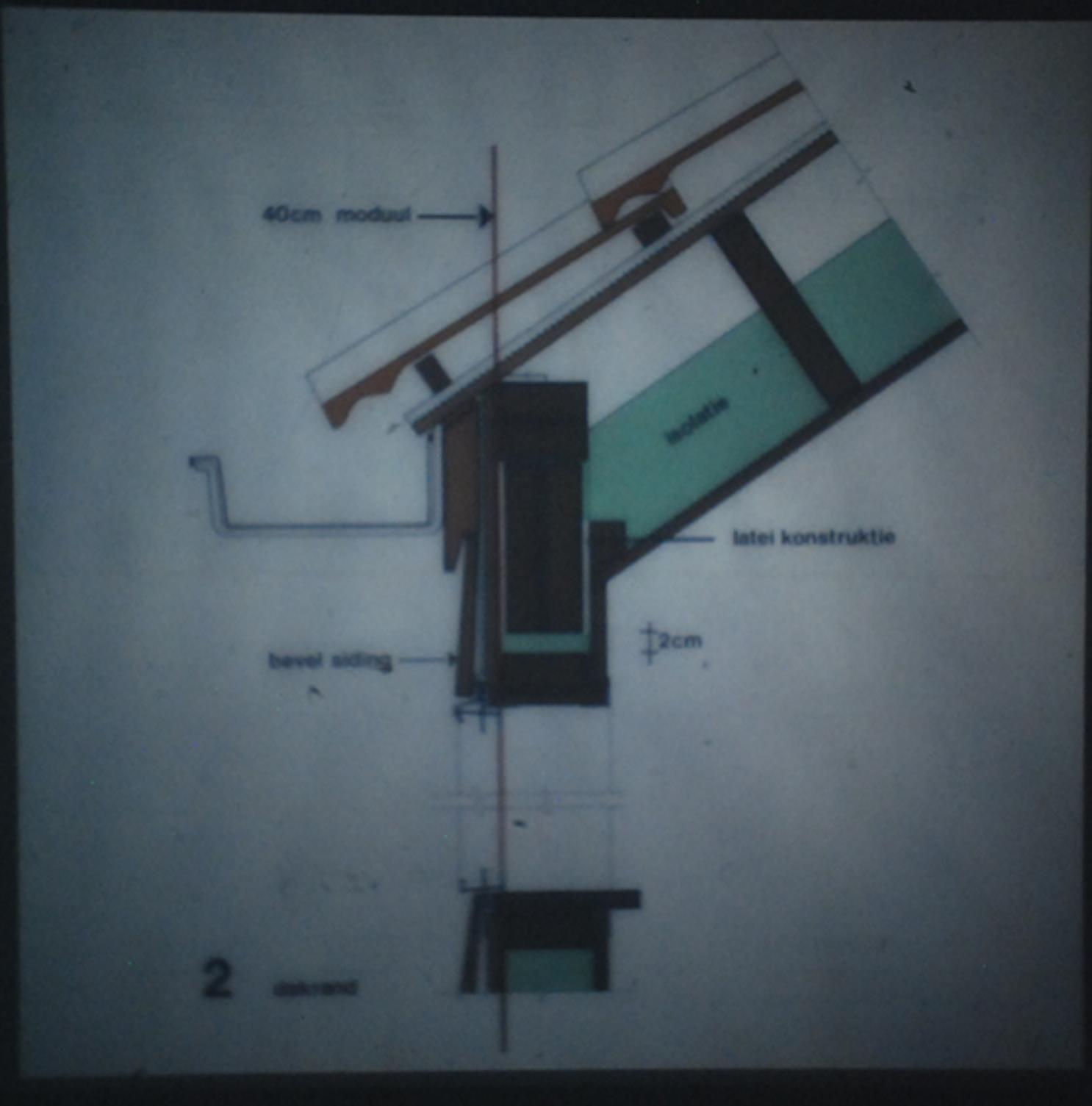
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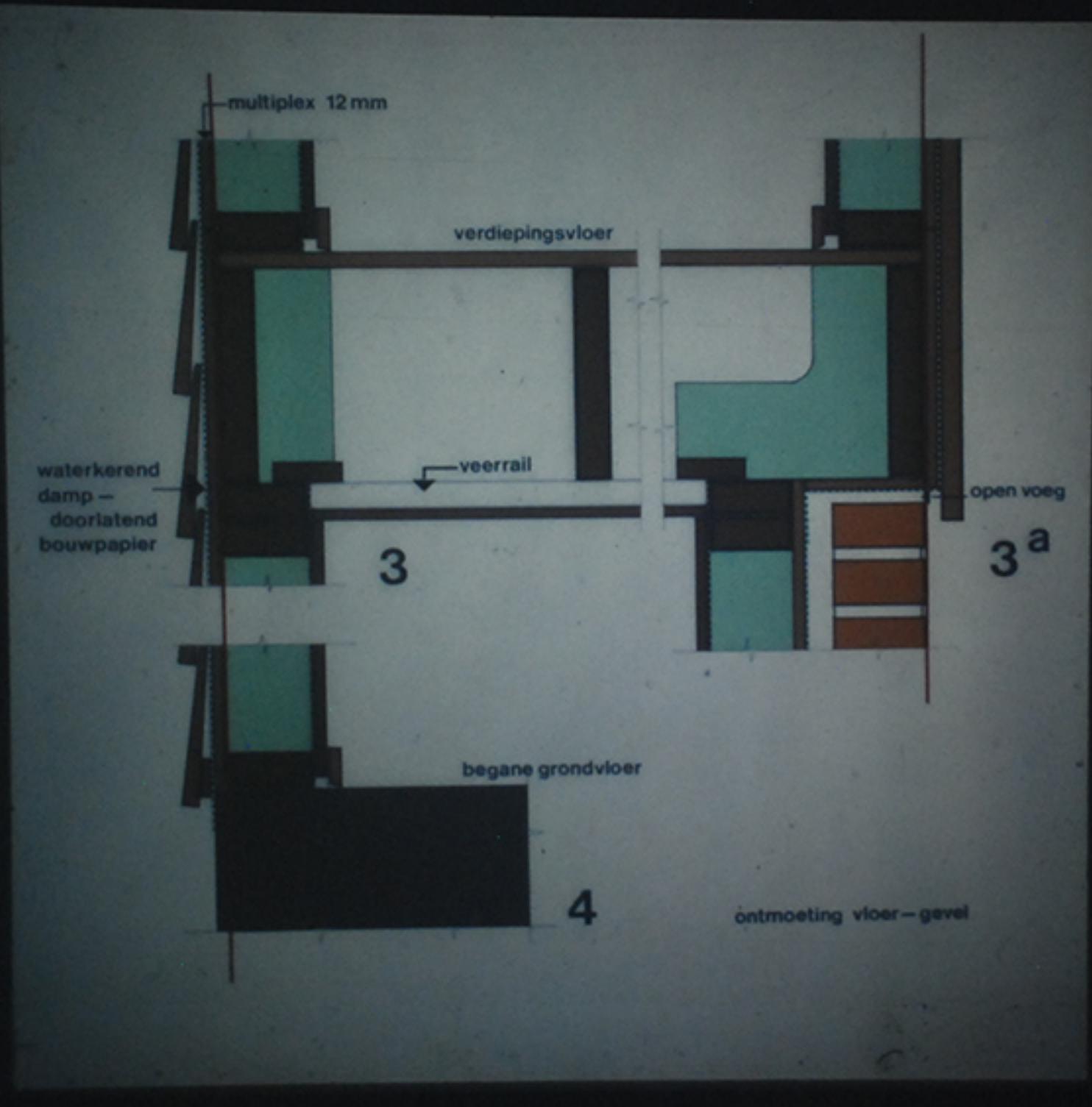
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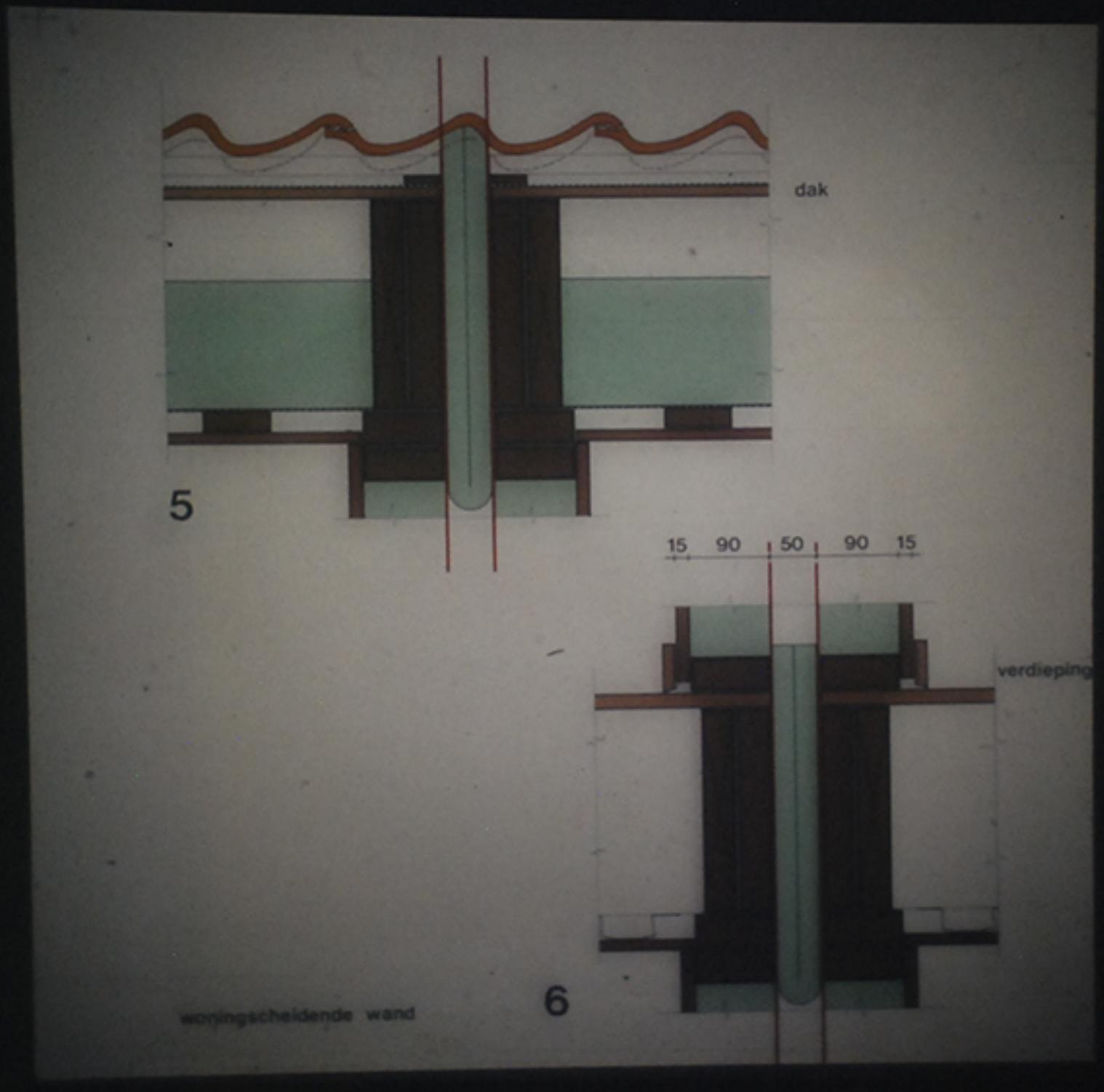
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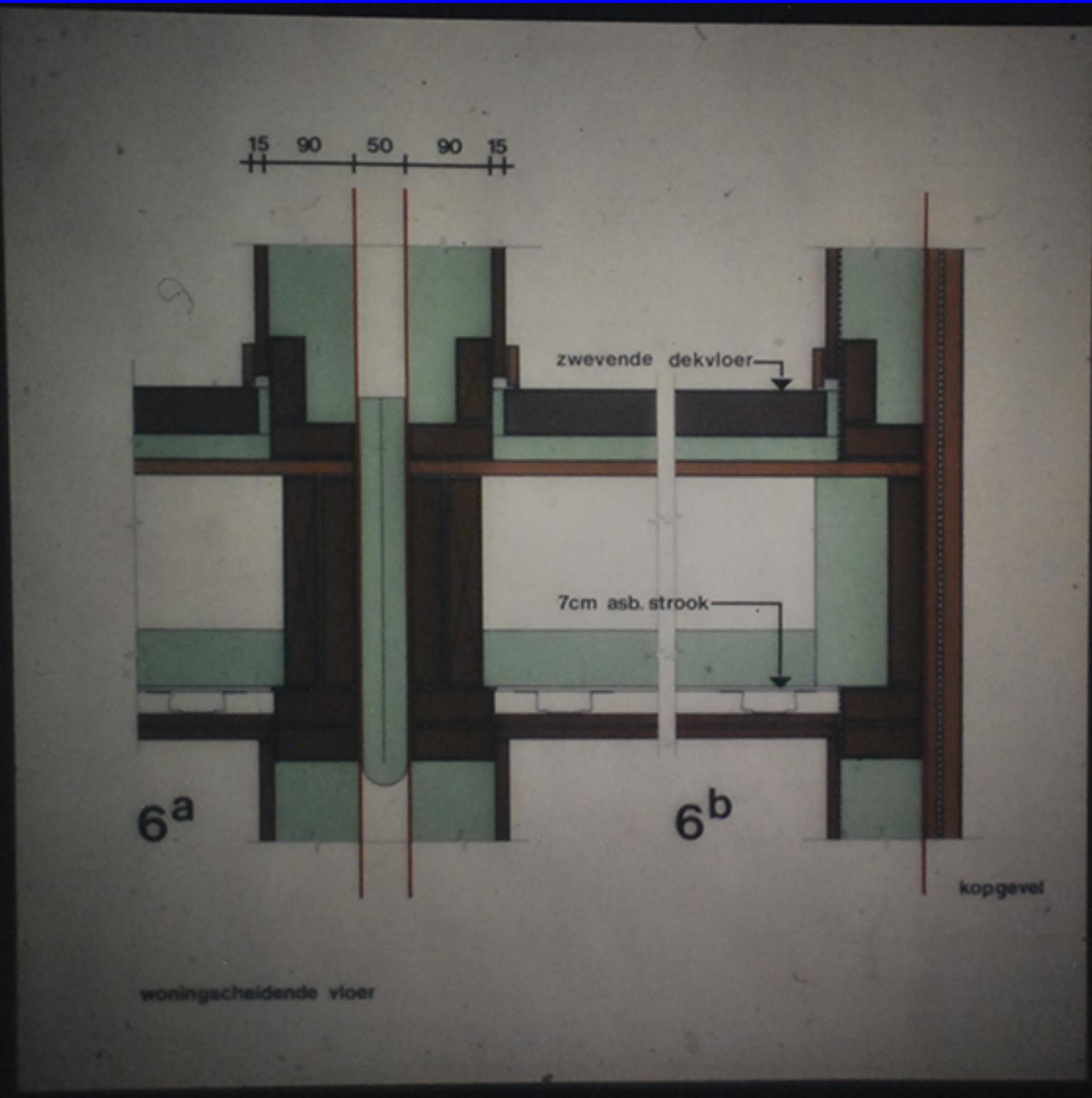


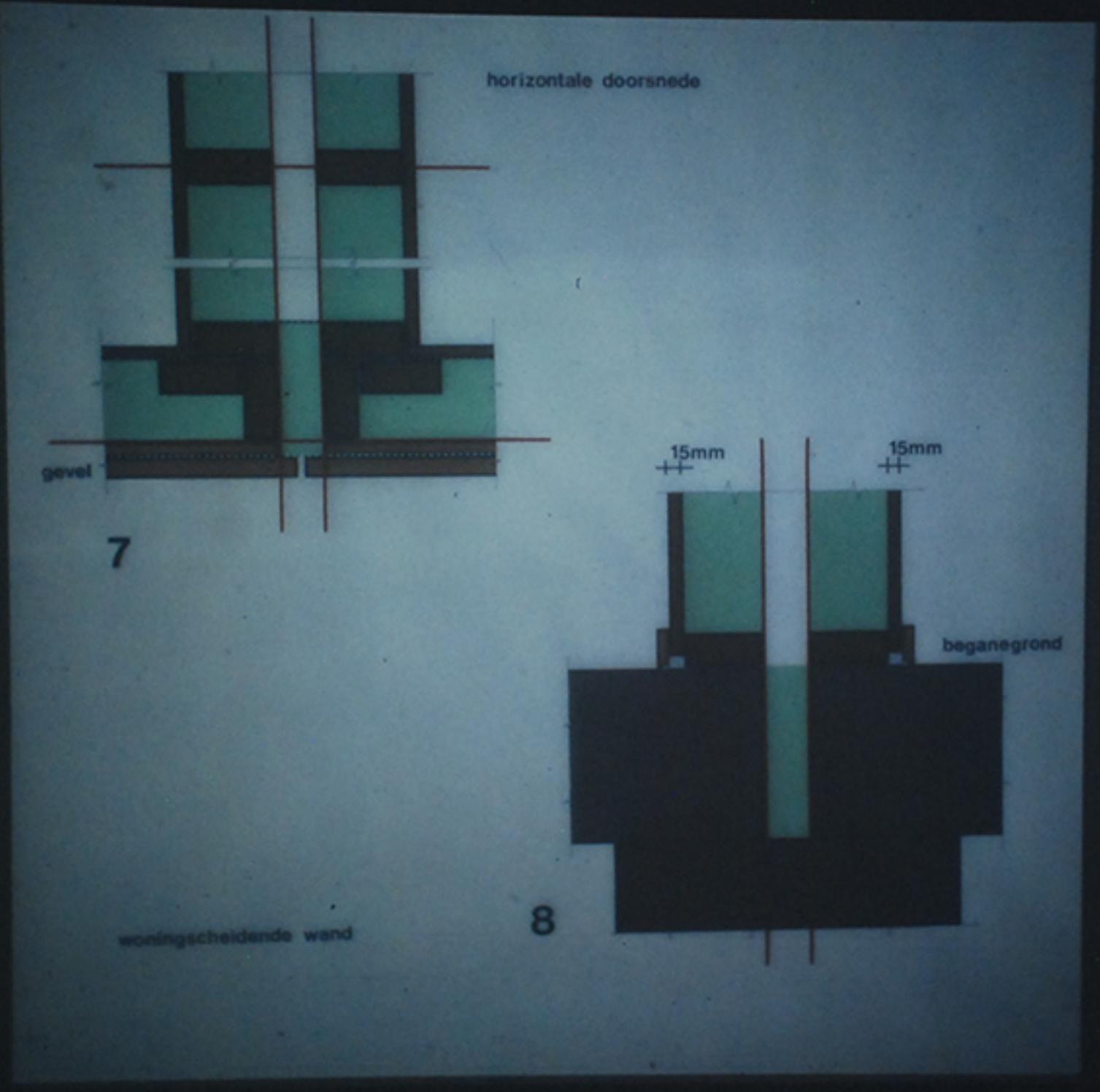
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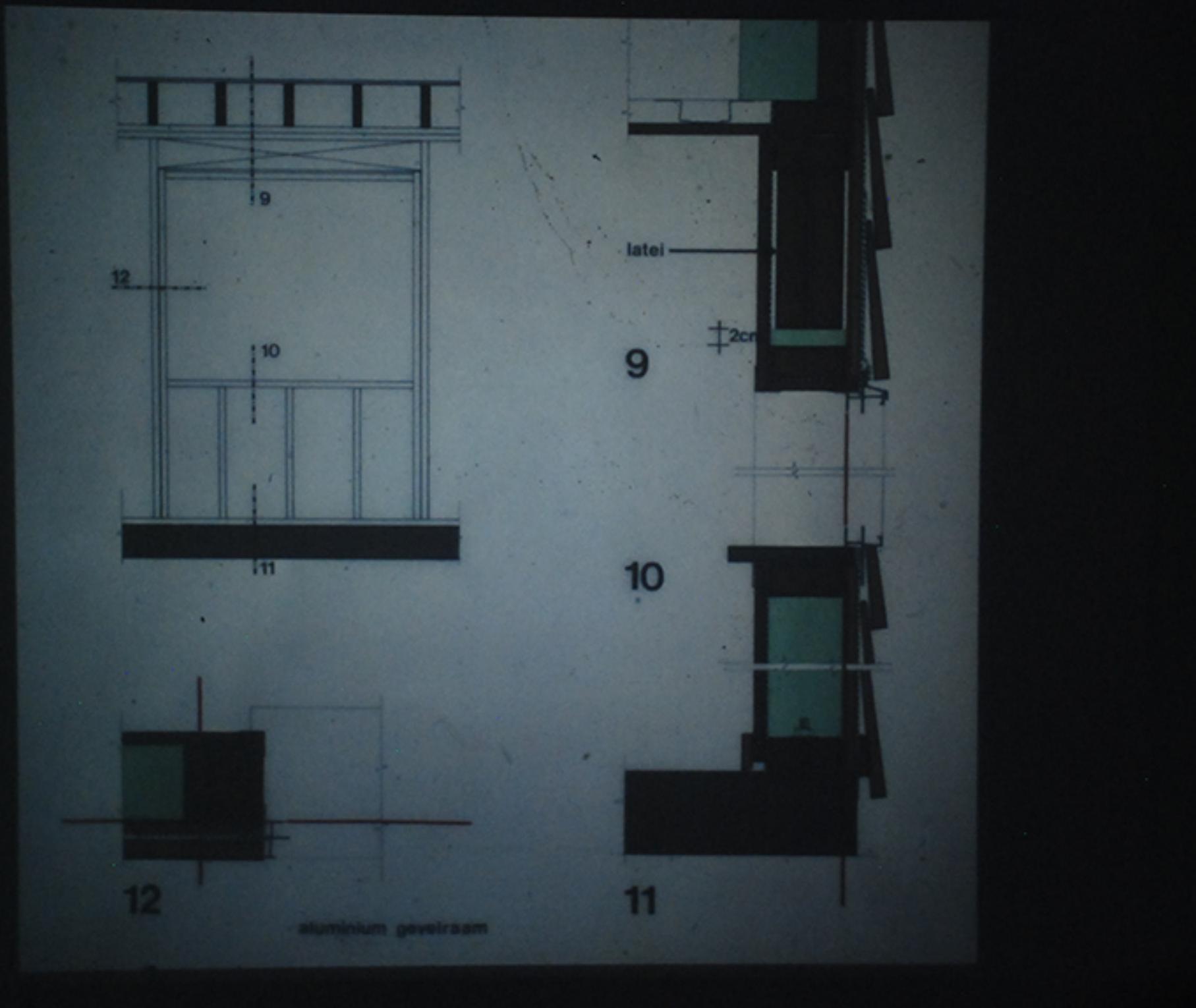


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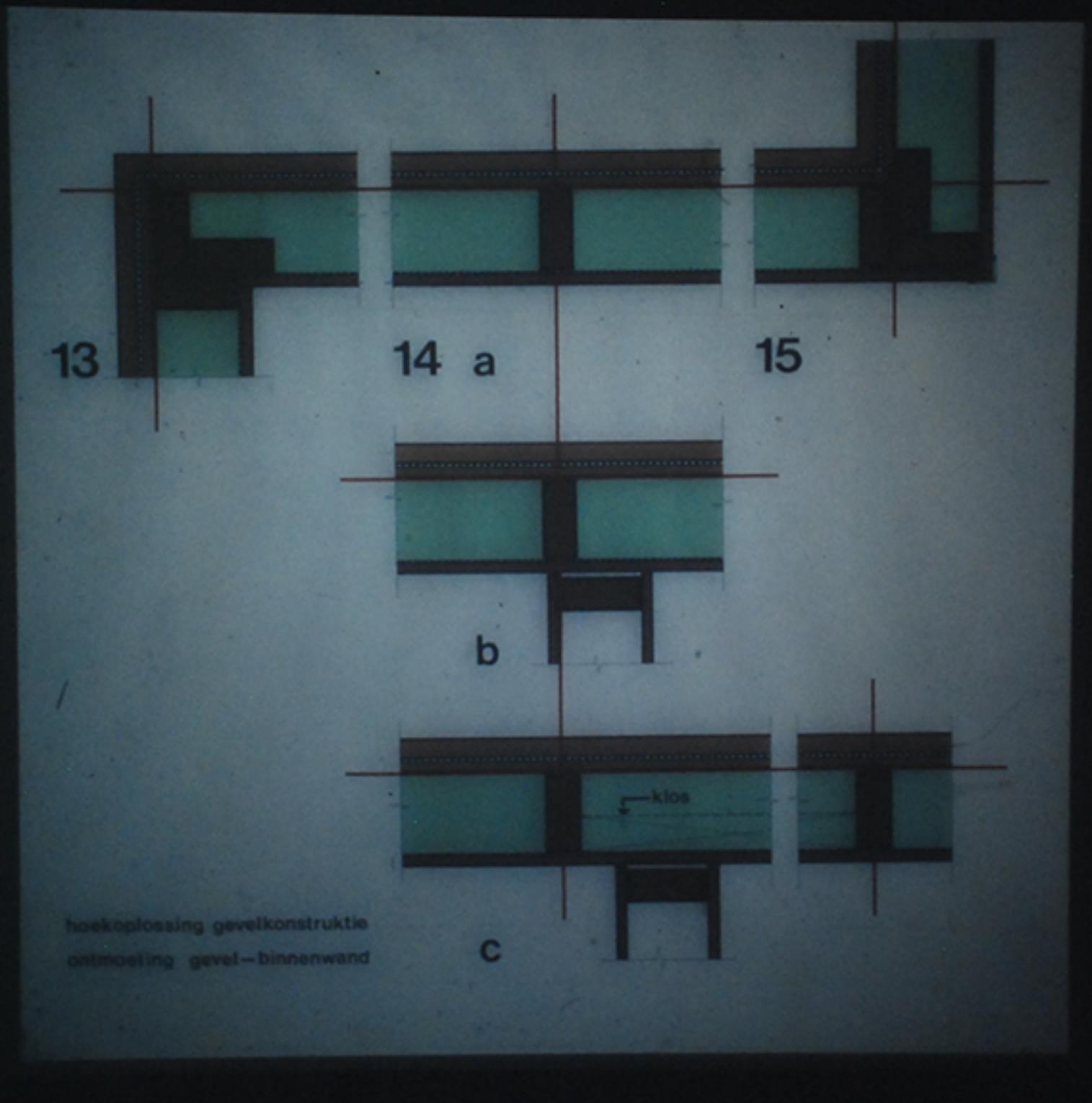


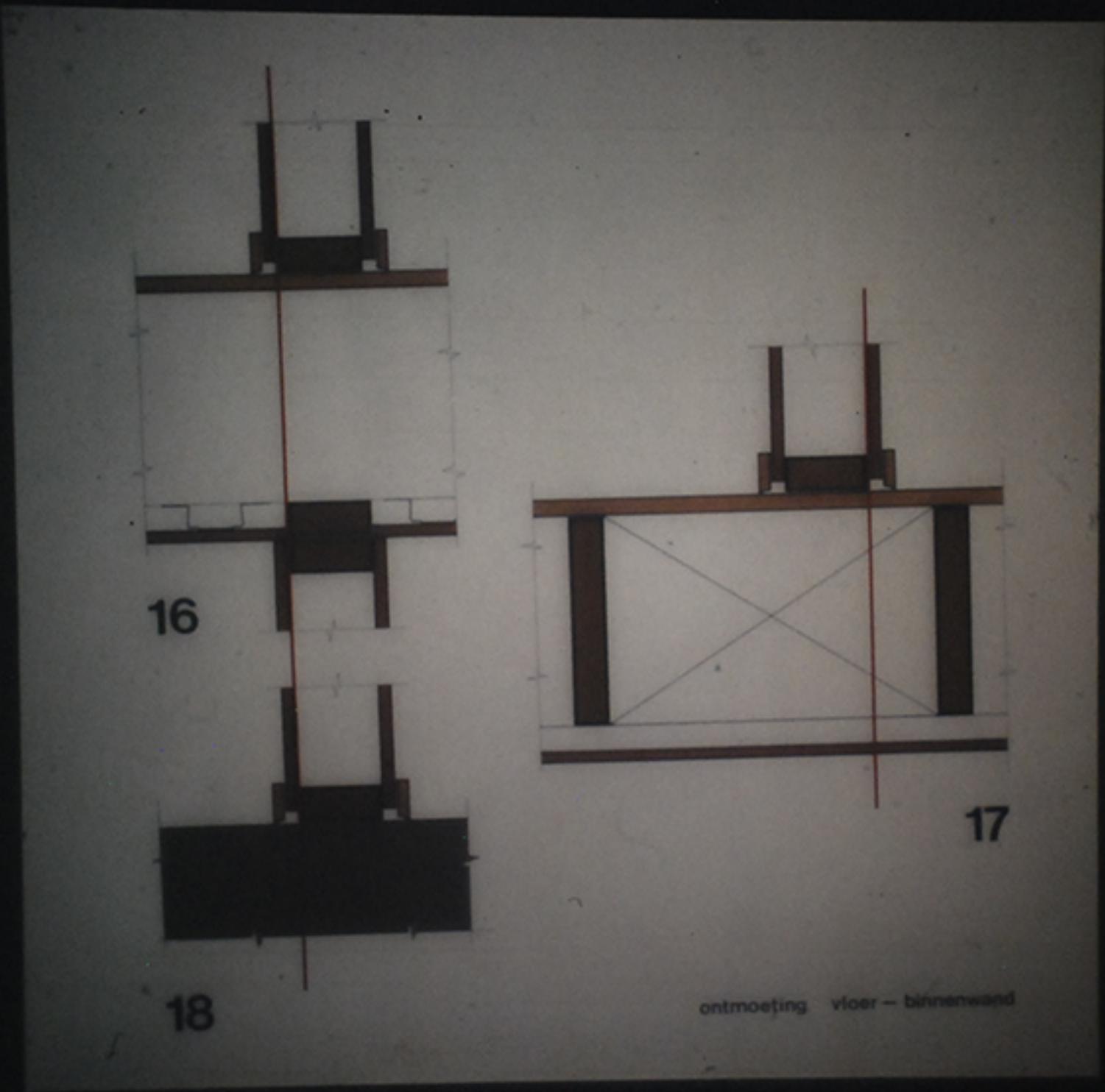


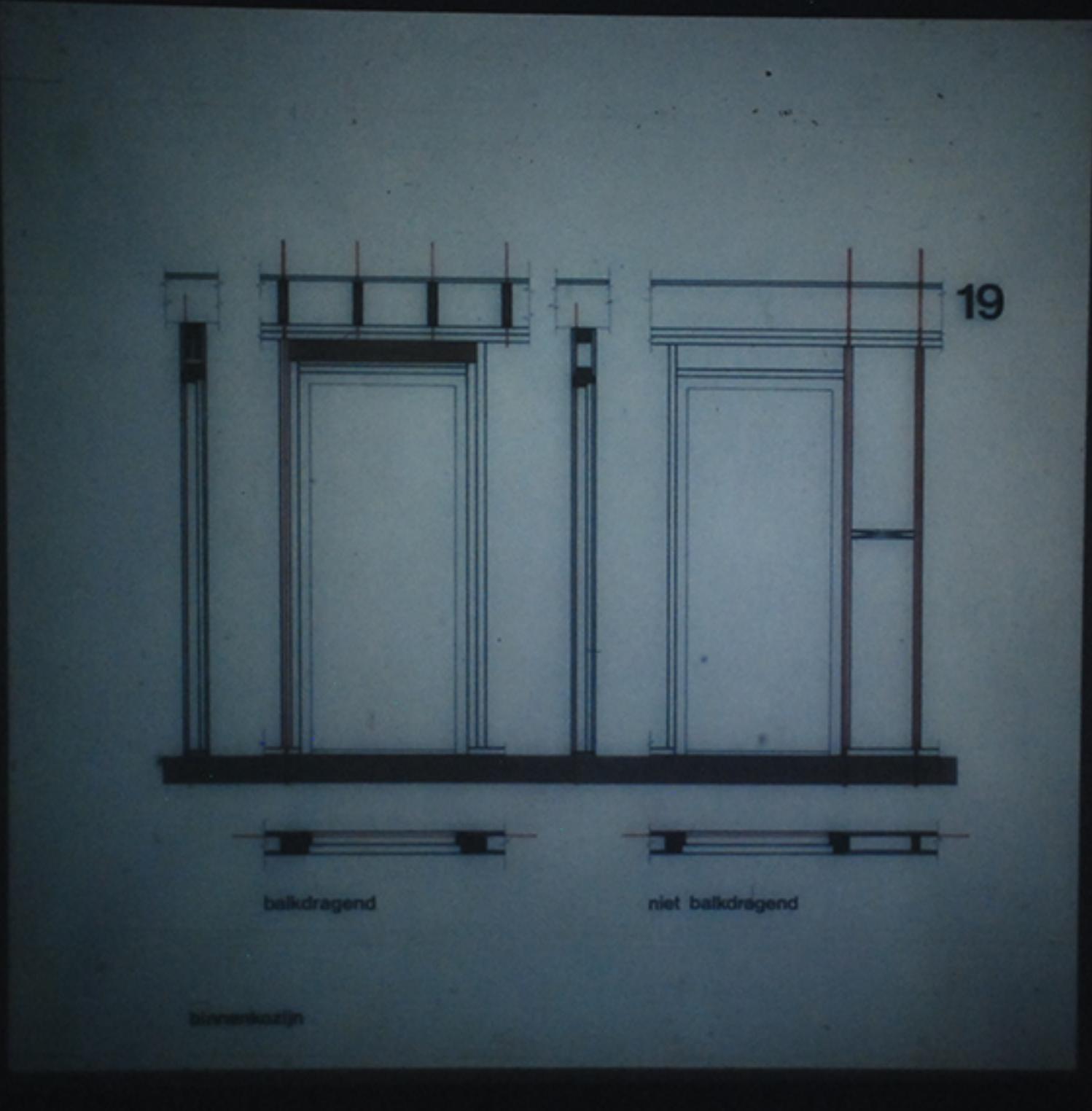




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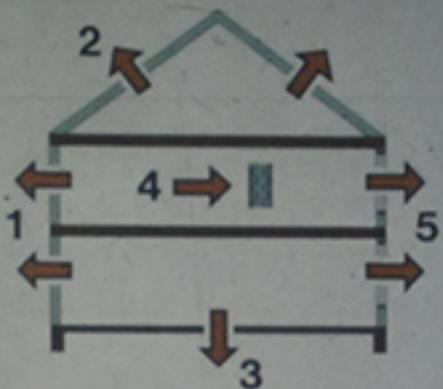
DSC_1778.JPG

| | eisen V&W 1976 | houtskeletbouw |
|--|---------------------|----------------|
| tussen woningen | | |
|  | | |
| luchtgeluidisolatie (I_{lu}) | | |
| won.scheid.wand. beg.gr. | $\geq 0 \text{ dB}$ | + 7 dB |
| " " " verd. | | + 7 dB |
| " " " zolder | | + 4 dB |
| contactgeluidisolatie (I_{co}) | | |
| won. scheid. wand beg gr. | $\geq 0 \text{ dB}$ | + 4 dB |
| " " " verd. | | + 10 dB |
| " " " zolder | | + 10 dB |

| | | | |
|---|---|---|--|
| binnen woning | luchtgeluidisolatie (I_{lu}) | | |
|  | wanden & vloeren tussen woon en slaapkamers | $\geq -15 \text{ dB}$ stille kamers $\geq -20 \text{ dB}$ overige krs. | $\geq -15 \text{ dB}$ $\geq -20 \text{ dB}$ |
| contactgeluidisolatie (I_{co}) | | | |
| idem | $\geq -15 \text{ dB}$ | | $\geq -15 \text{ dB}$ |

thermische isolatie

uitgangspunt: bruto inhoud ca. 330 m³



| eisen MBV 1978 gietbouw | | normale uitvoering houtskelletbouw | | optimale gietbouw | | "Geforceerd" in normatieve voorschriften | |
|----------------------------------|--|---------------------------------------|--|----------------------------------|--|--|--|
| R-waarde M ² K / W | gasverbruik in m ³ pj/m ² | R-waarde M ² K / W | gasverbruik in m ³ pj/m ² | R-waarde M ² K / W | gasverbruik in m ³ pj/m ² | R-waarde M ² K / W | gasverbruik in m ³ pj/m ² |
| 1 | ≥ 1,29 | 8,2 | ≈ 2,5 | 4,5 | ≈ 1,29 | 8,2 | ≈ 2,5 |
| 2 | ≥ 1,29 | 8,2 | ≈ 2,5 | 4,5 | ≈ 1,29 | 8,2 | ≈ 2,5 |
| 3 | ≥ 0,26 | 12 | ≈ 0,26 | 12 | ≈ 1,29 | 4 | ≈ 1,29 |
| 4 | ≈ 0,13 | 10 | ≈ 4 | 1 | ≈ 0,13 | 10 | ≈ 4 |
| 5 | ≈ 0,01 | 42 | ≈ 0,01 | 42 | ≈ 0,14 | 26 | ≈ 0,01 |

mechanische ventilatie 4,2 m³ gas/m² nacht

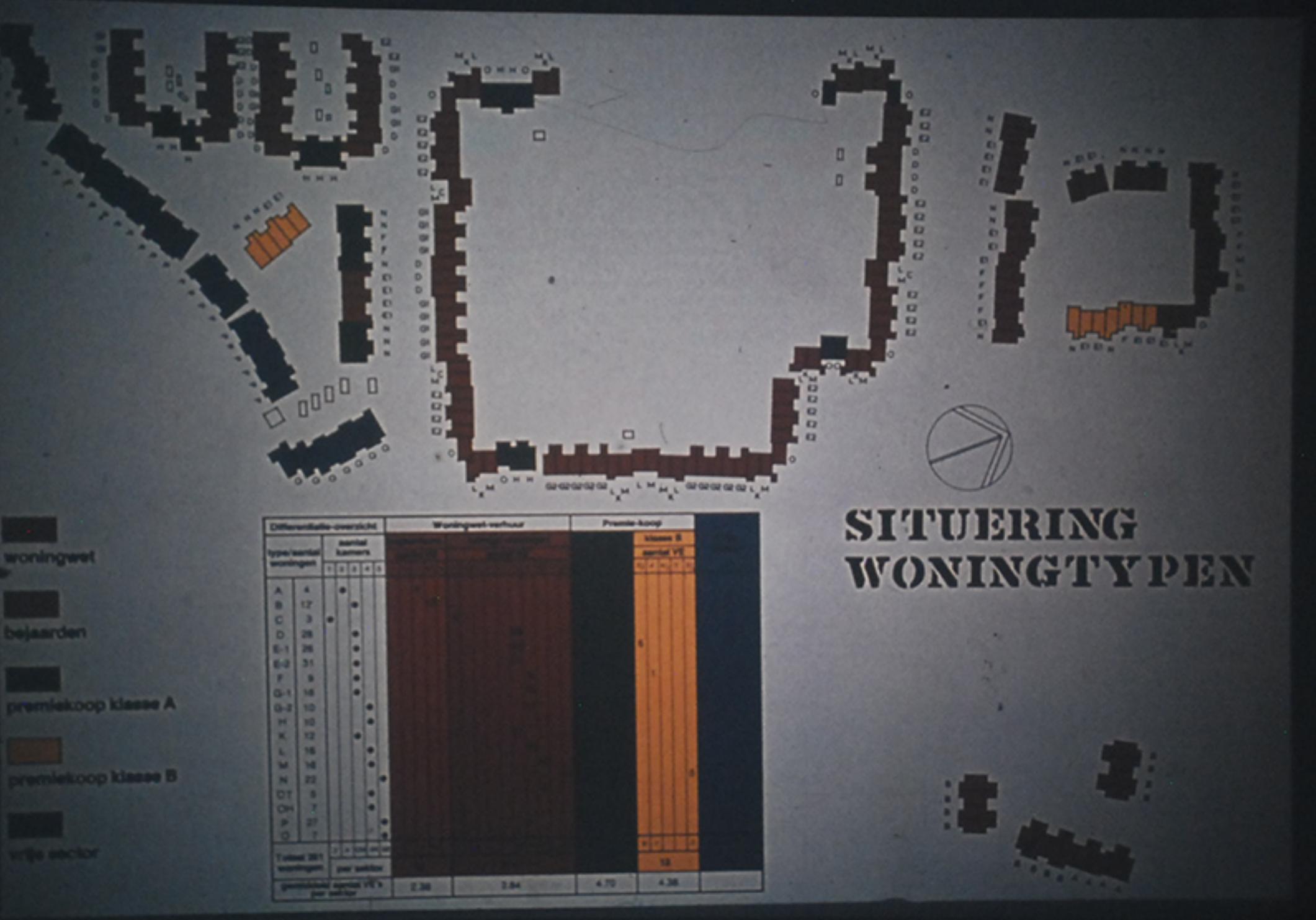
laag, midd, hoge wind, temperatuur, ...

gecombineerd gasverbruik p.j. 3300 m³/woon. → 20,6% → 2650 m³/woon.

gecombineerd gasverbruik p.j. 3300 m³/woon. → 20,6% → 2650 m³/woon.



DSC_1782.JPG



DSC_1783.JPG



DSC_1786.JPG



DSC_1787.JPG



DSC_1788.JPG



DSC_1789.JPG



DSC_1790.JPG



DSC_1791.JPG



DSC_1792.JPG



DSC_1793.JPG



DSC_1794.JPG



DSC_1795.JPG



DSC_1796.JPG



DSC_1797.JPG



DSC_1798.JPG



DSC_1799.JPG



DSC_1800.JPG



DSC_1801.JPG



DSC_1802.JPG



DSC_1803.JPG



DSC_1804.JPG



DSC_1805.JPG



DSC_1806.JPG



DSC_1807.JPG



DSC_1808.JPG



DSC_1809.JPG



DSC_1810.JPG



DSC_1811.JPG



DSC_1812.JPG



DSC_1813.JPG



DSC_1814.JPG



DSC_1815.JPG



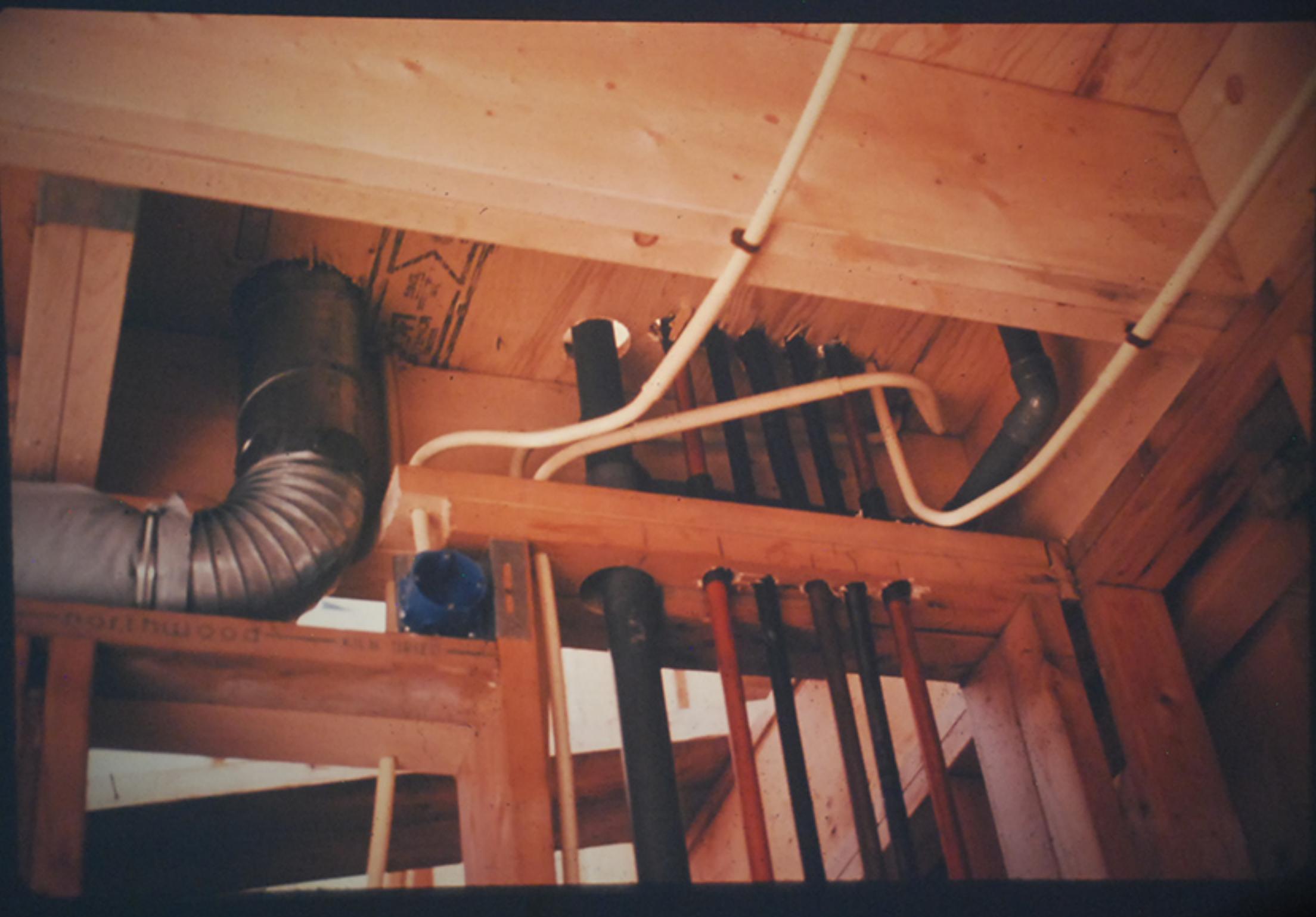
DSC_1816.JPG



DSC_1817.JPG



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DSC_1819.JPG



DSC_1820.JPG



DSC_1821.JPG



DSC_1822.JPG



DSC_1823.JPG



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DSC_1842.JPG