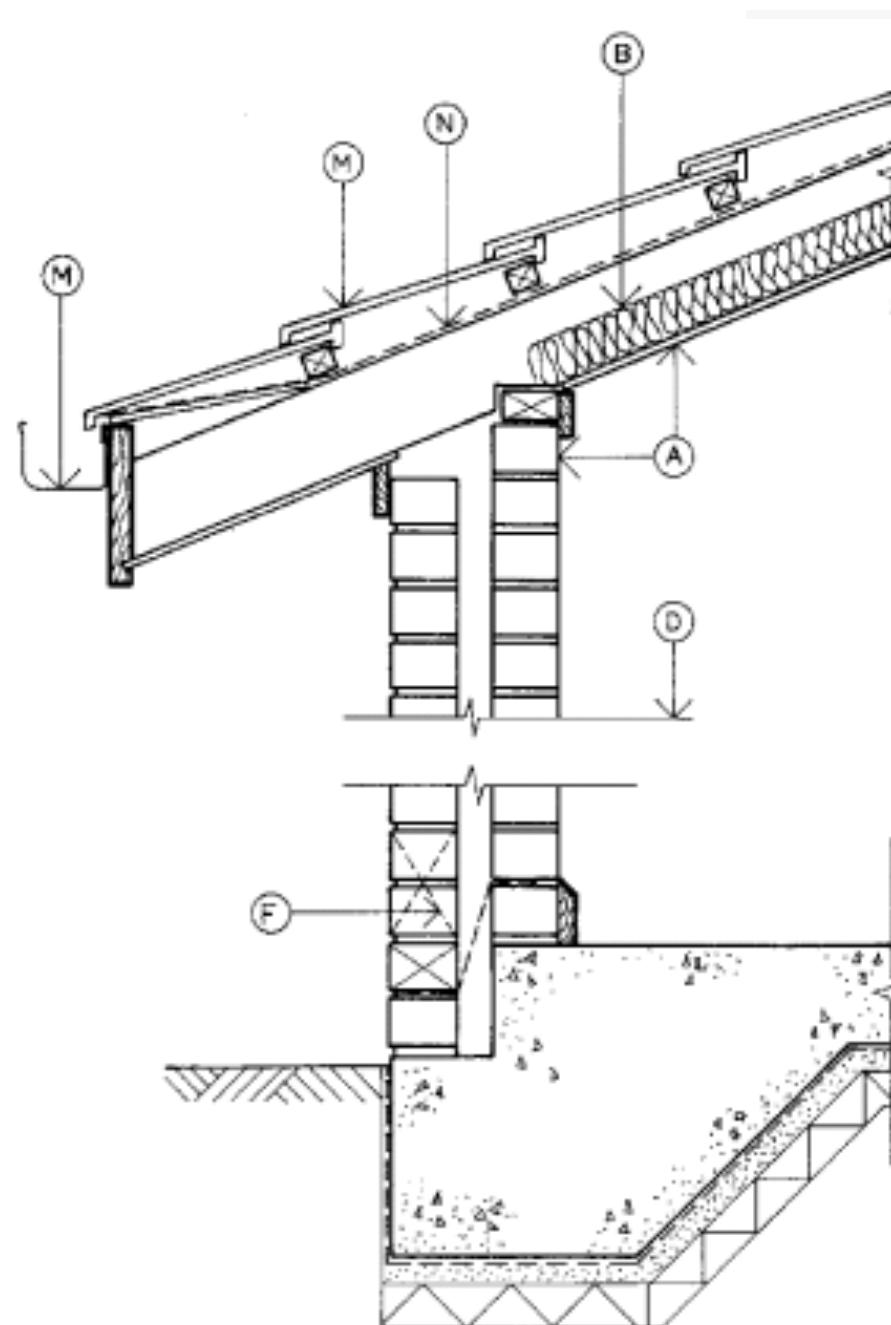


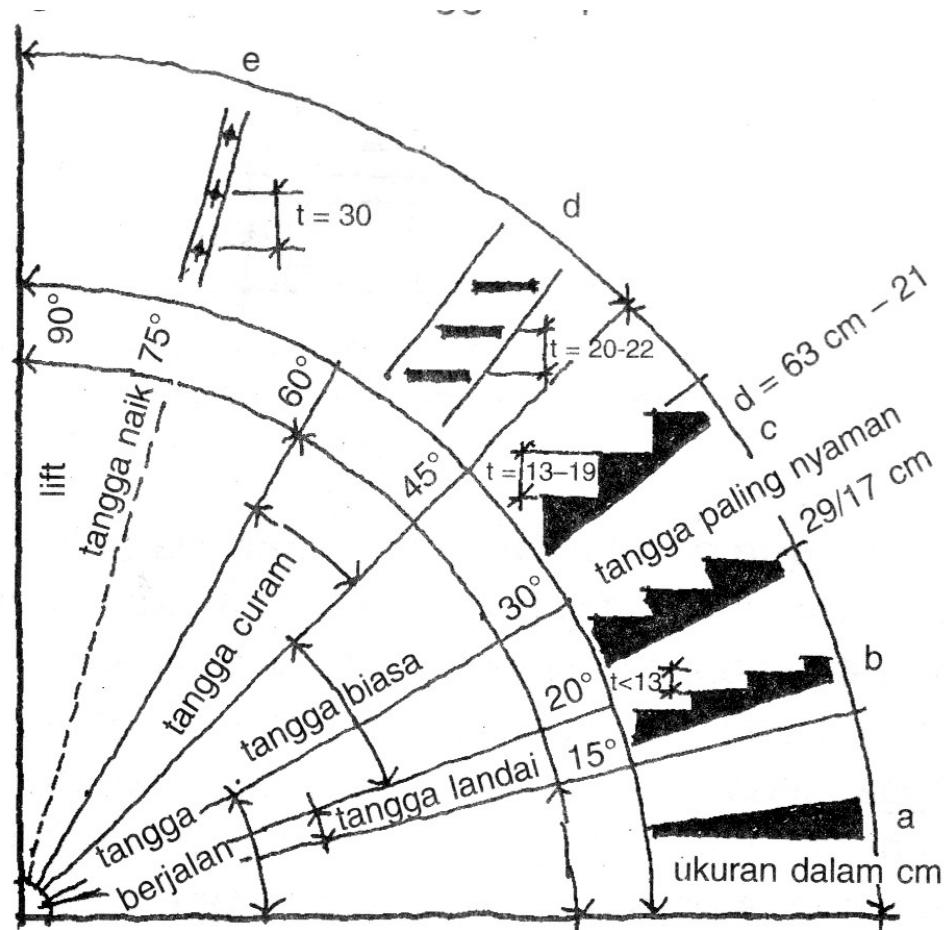
PERENCANAAN TEKNOLOGI & SISTEM BANGUNAN (PTSB) 03

DRAWINGS

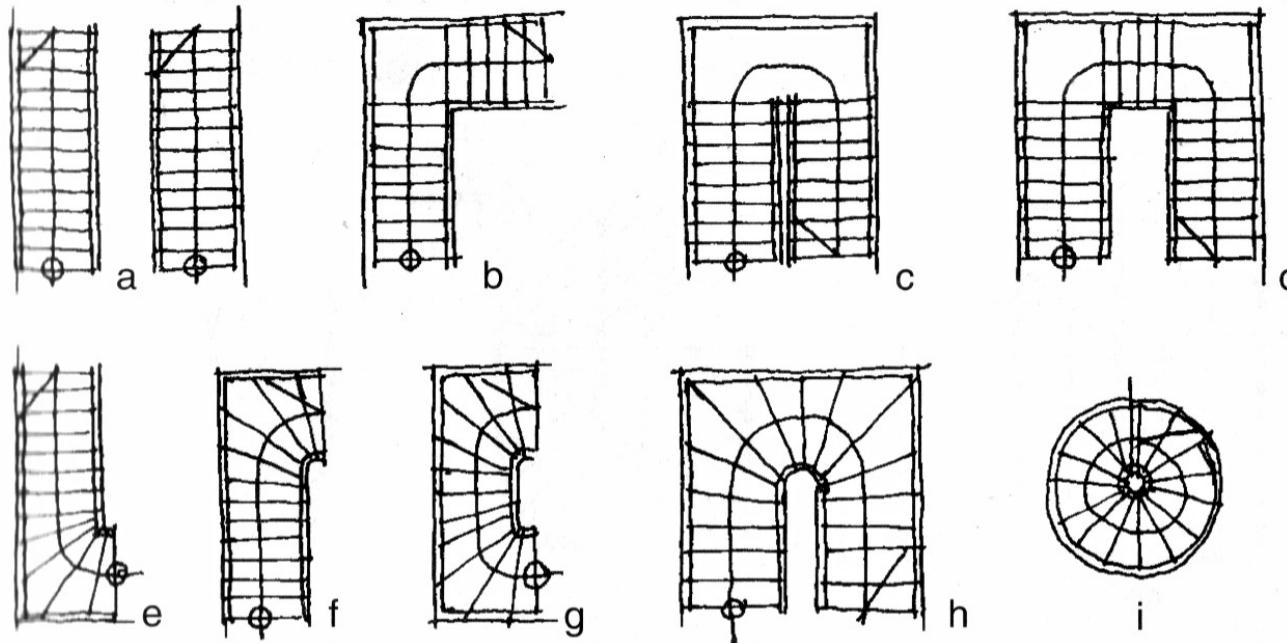
Detail – *an enlarged view of a portion of drawing*



- a) Lantai miring
 $6^\circ - 20^\circ$
- b) Tangga landai
 $20^\circ - 24^\circ$
- c) Tangga biasa
 $24^\circ - 45^\circ$
- d) Tangga curam,
tangga hemat
 $45^\circ - 75^\circ$
- e) Tangga naik,
tangga tingkat
 $75^\circ - 90^\circ$



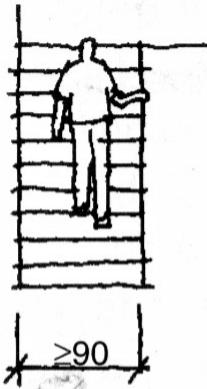
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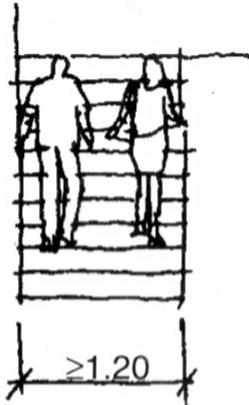
Bermacam bentuk tangga

- a) tangga biasa, tangga lurus; b) tangga dengan bordes seperempat; c) tangga dengan bordes; d) tangga dengan dua bordes seperempat; e) tangga dengan belokan seperempat bawah; f) tangga dengan belokan seperempat atas; g) tangga dengan dua belokan seperempat; h) tangga dengan belokan setengah; i) tangga lingkaran.

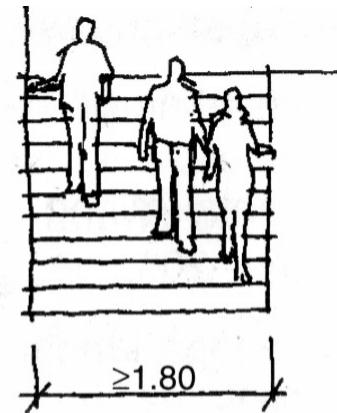
TANGGA



Tangga darurat, langkah naik maksimal 20 cm

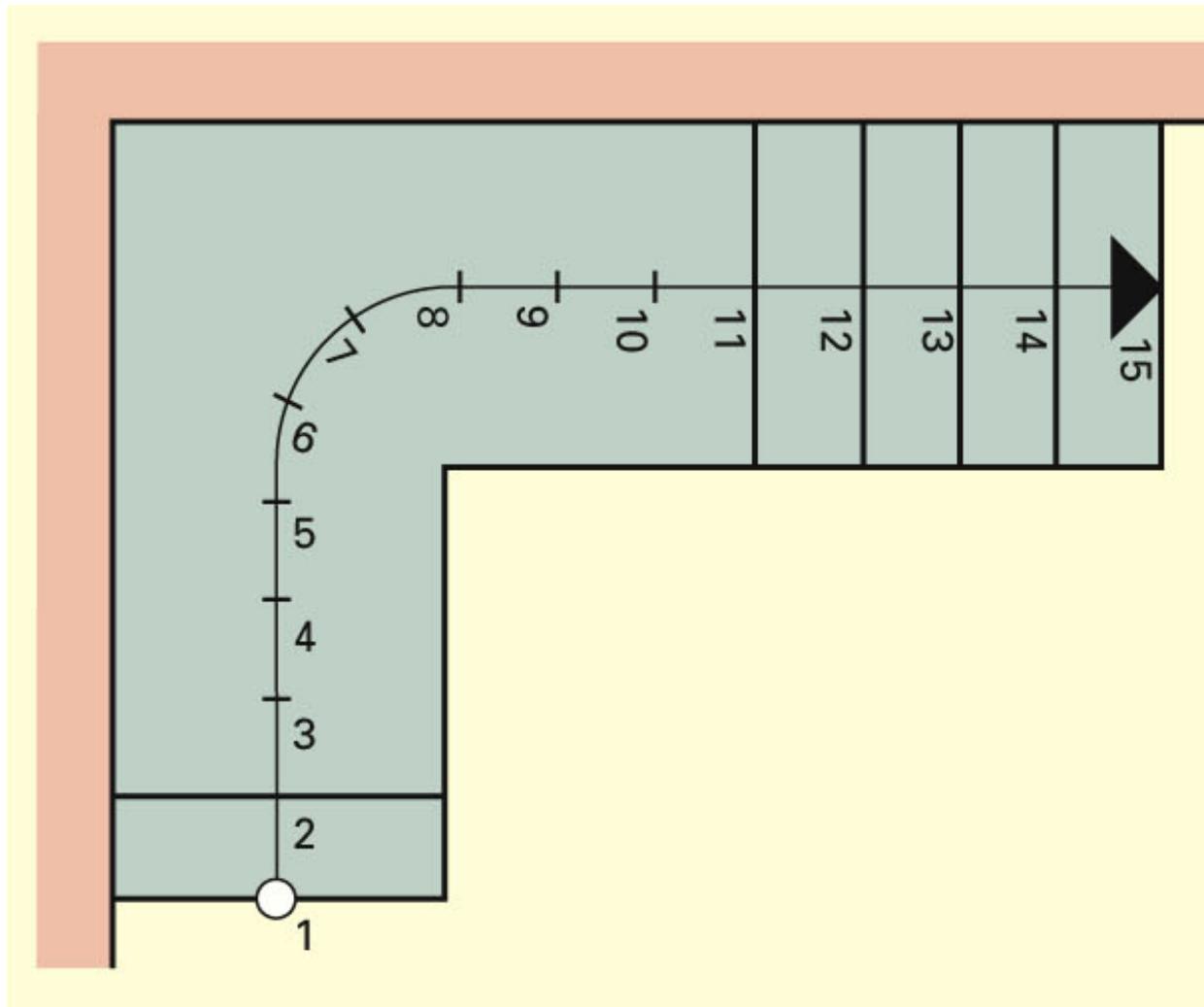


Tangga rumah tinggal, langkah naik sebaiknya tidak melebihi 18 cm

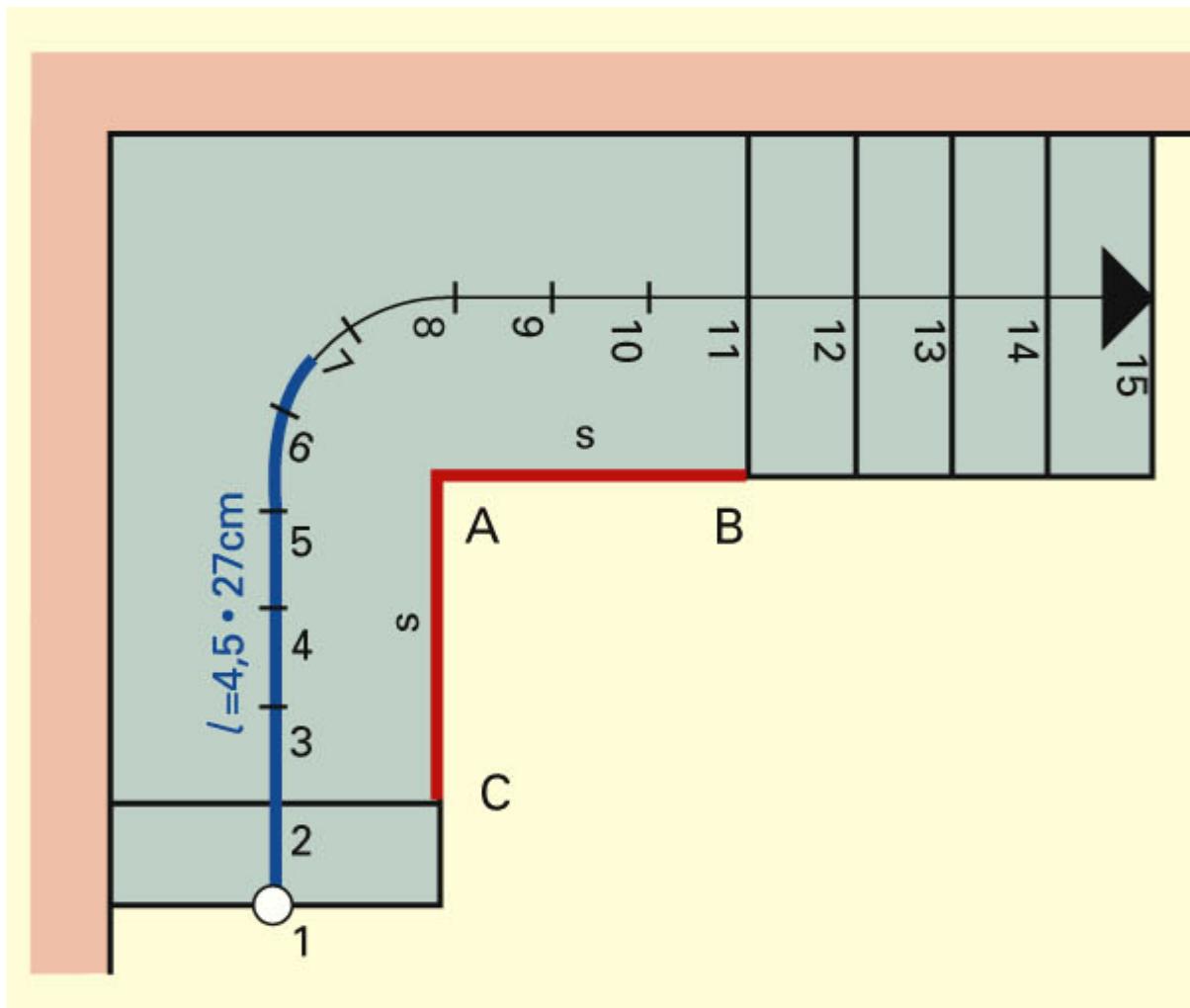


Tangga rumah susun, pertokoan, atau perkantoran umum, langkah naik < 18 cm

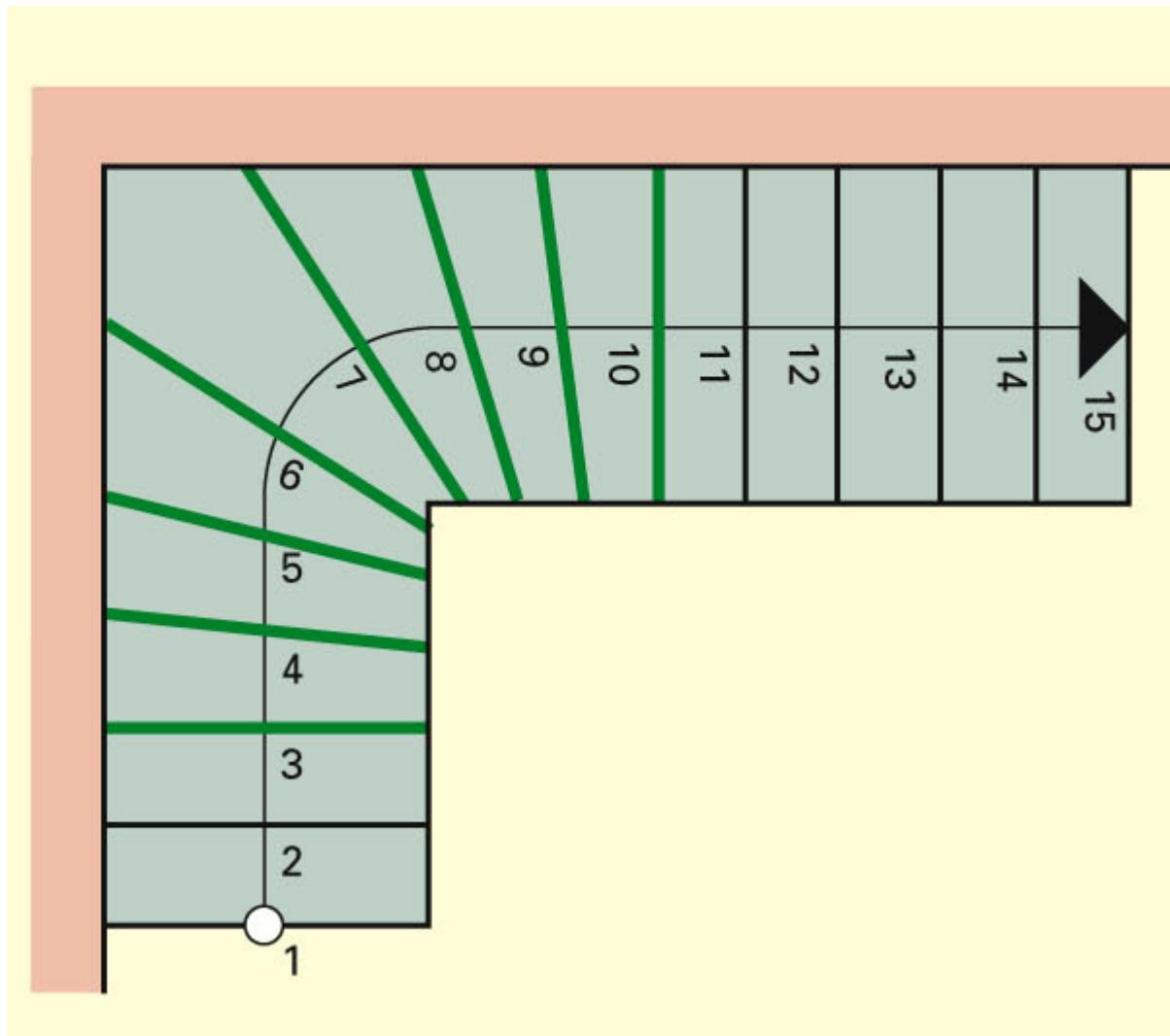
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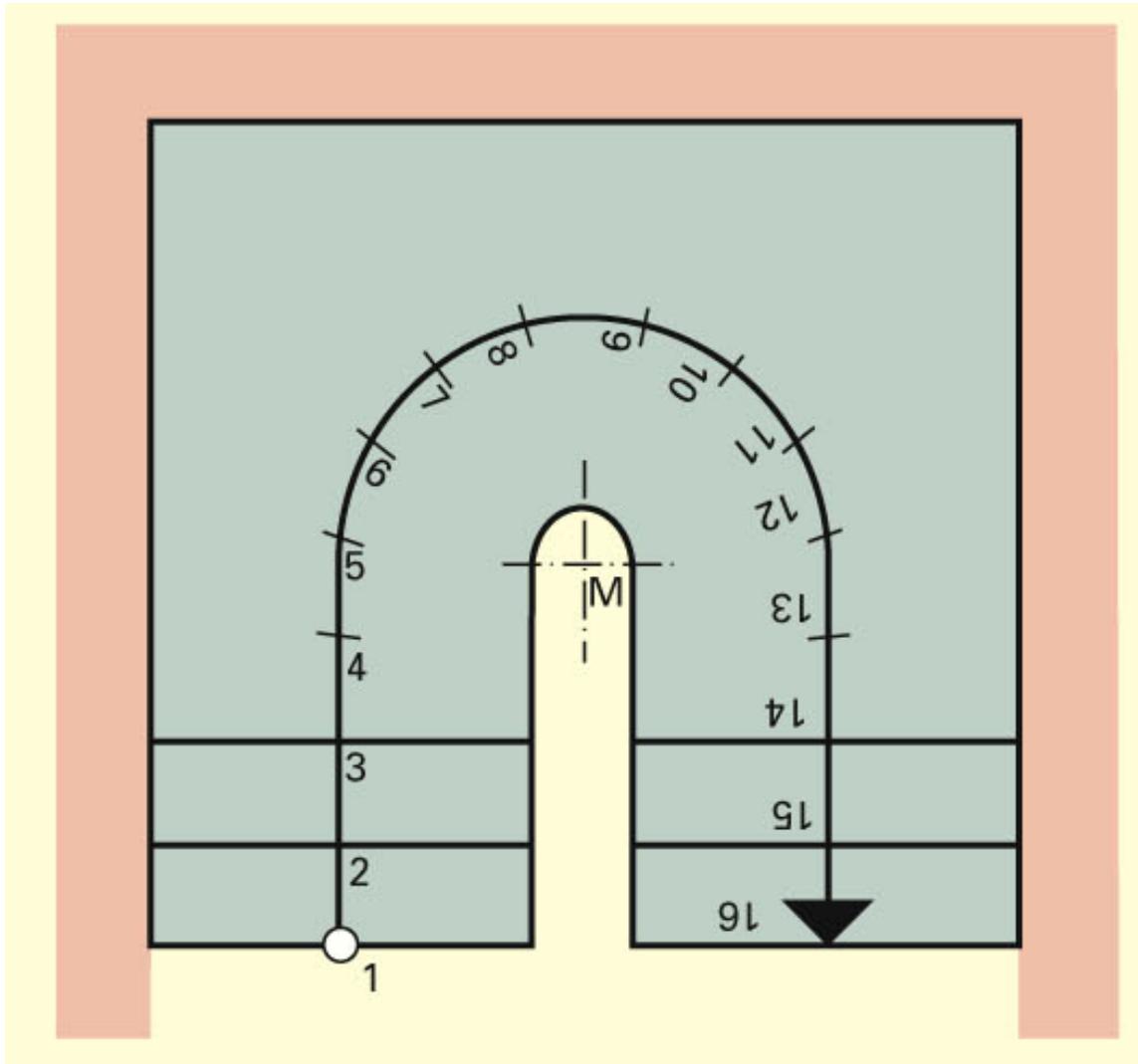
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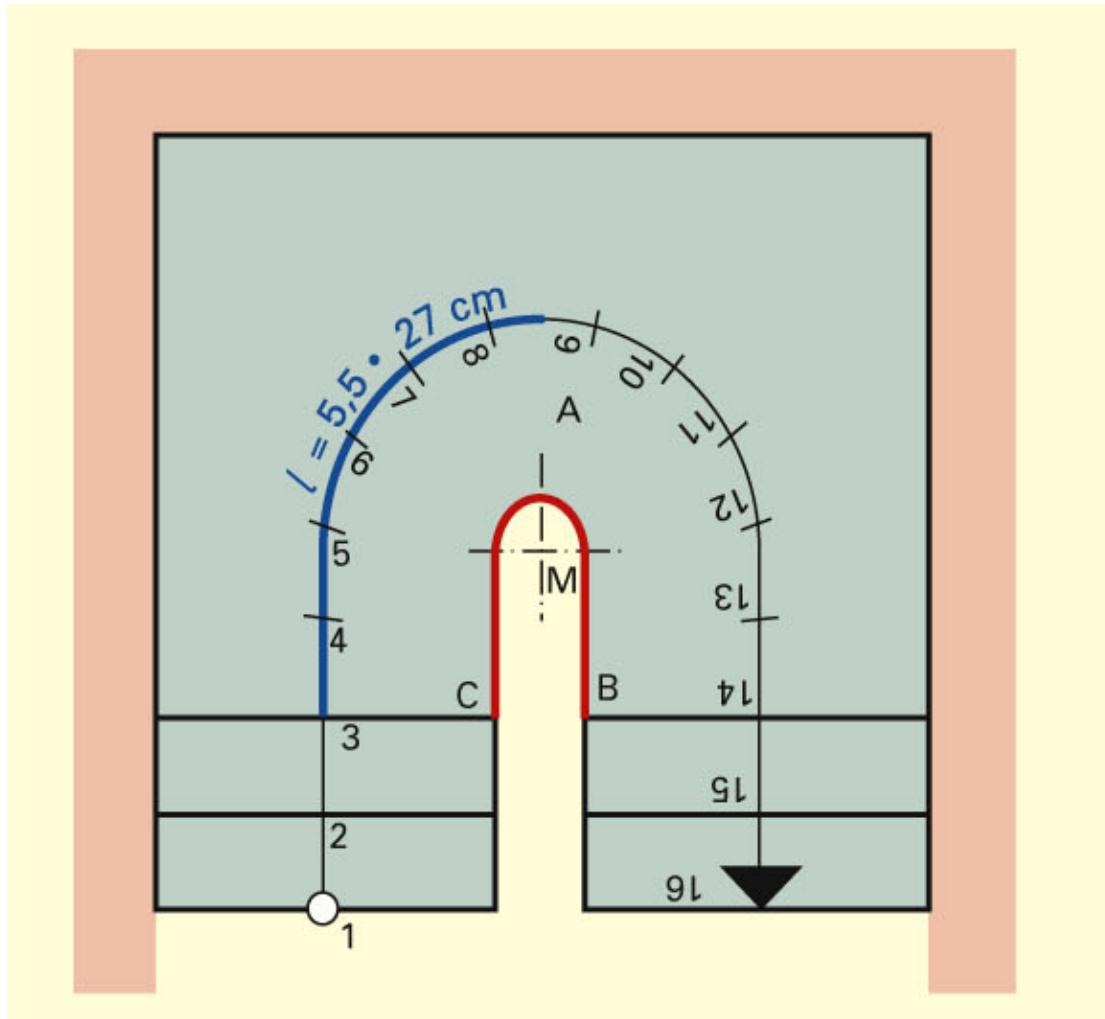
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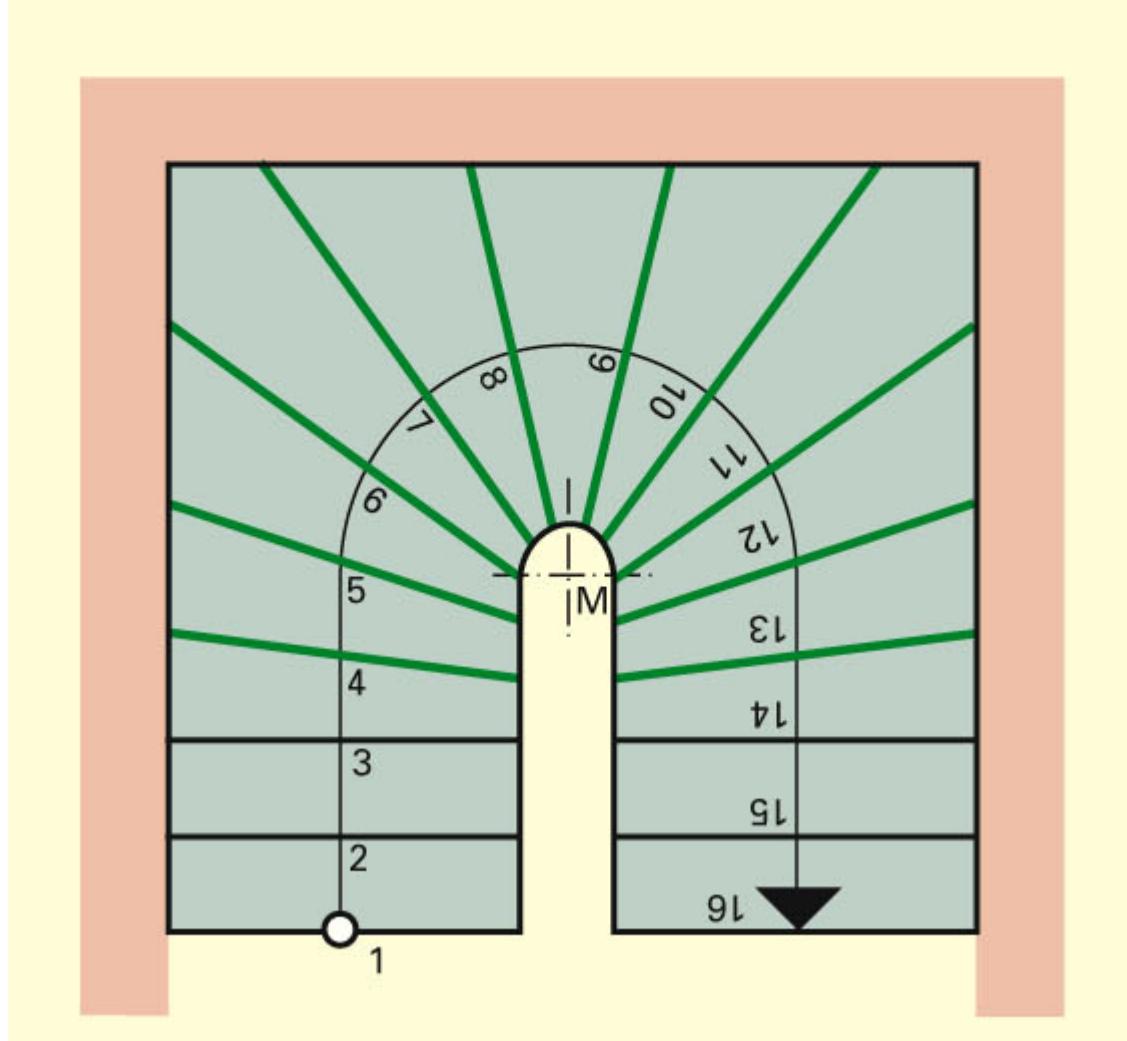
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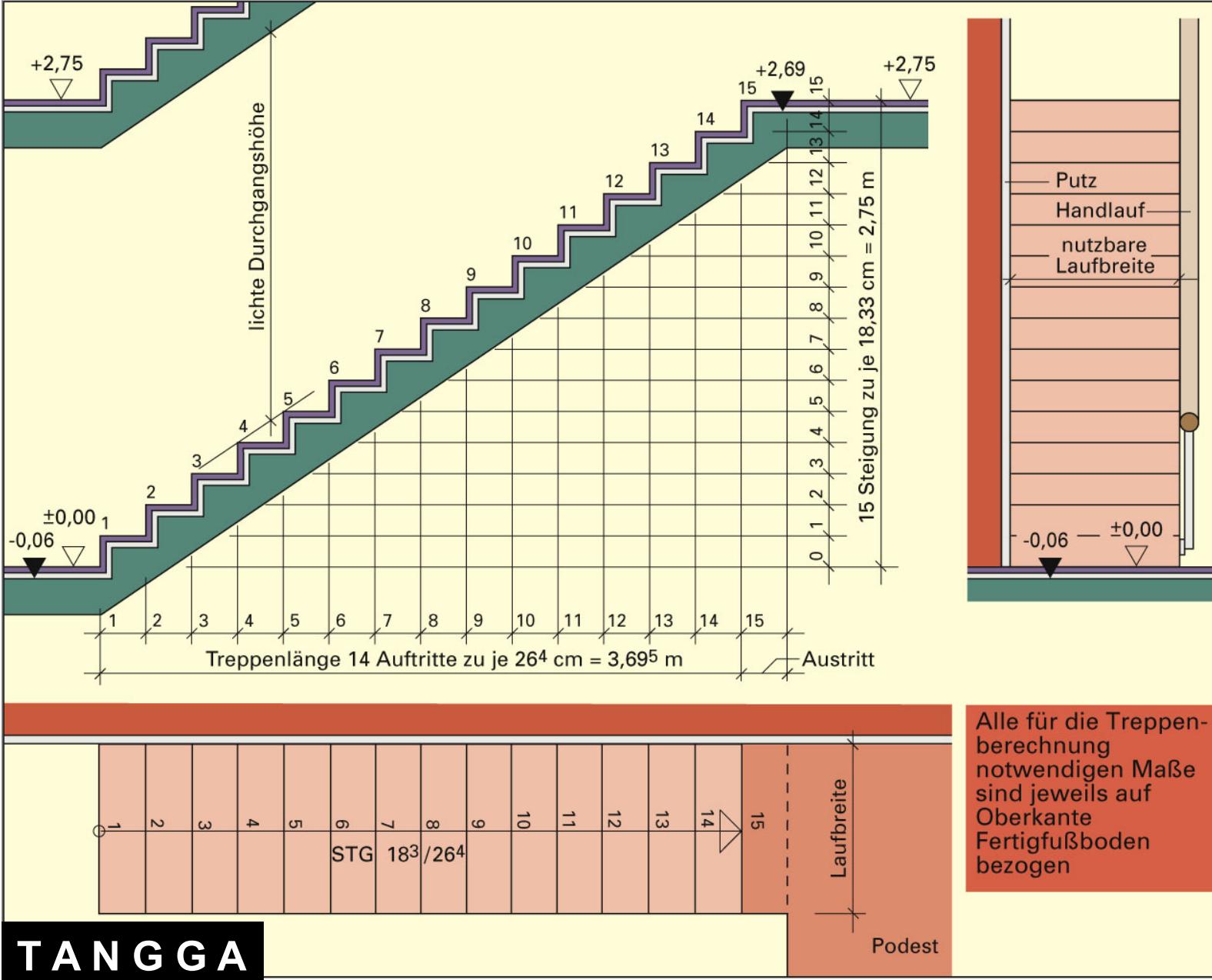
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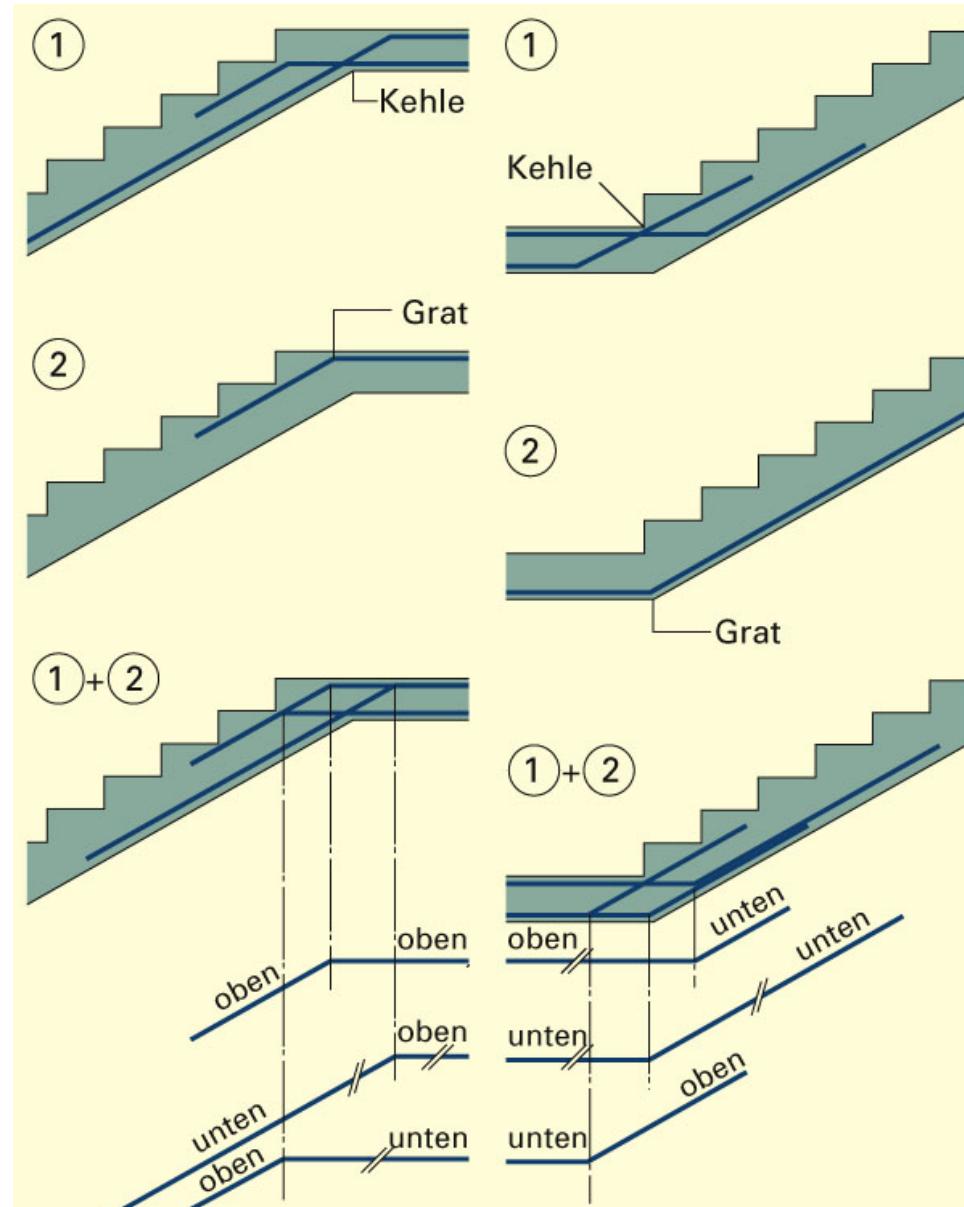


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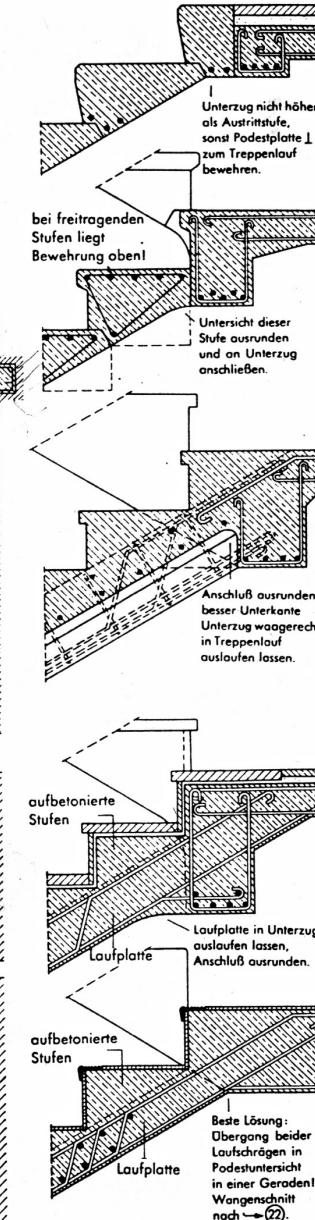
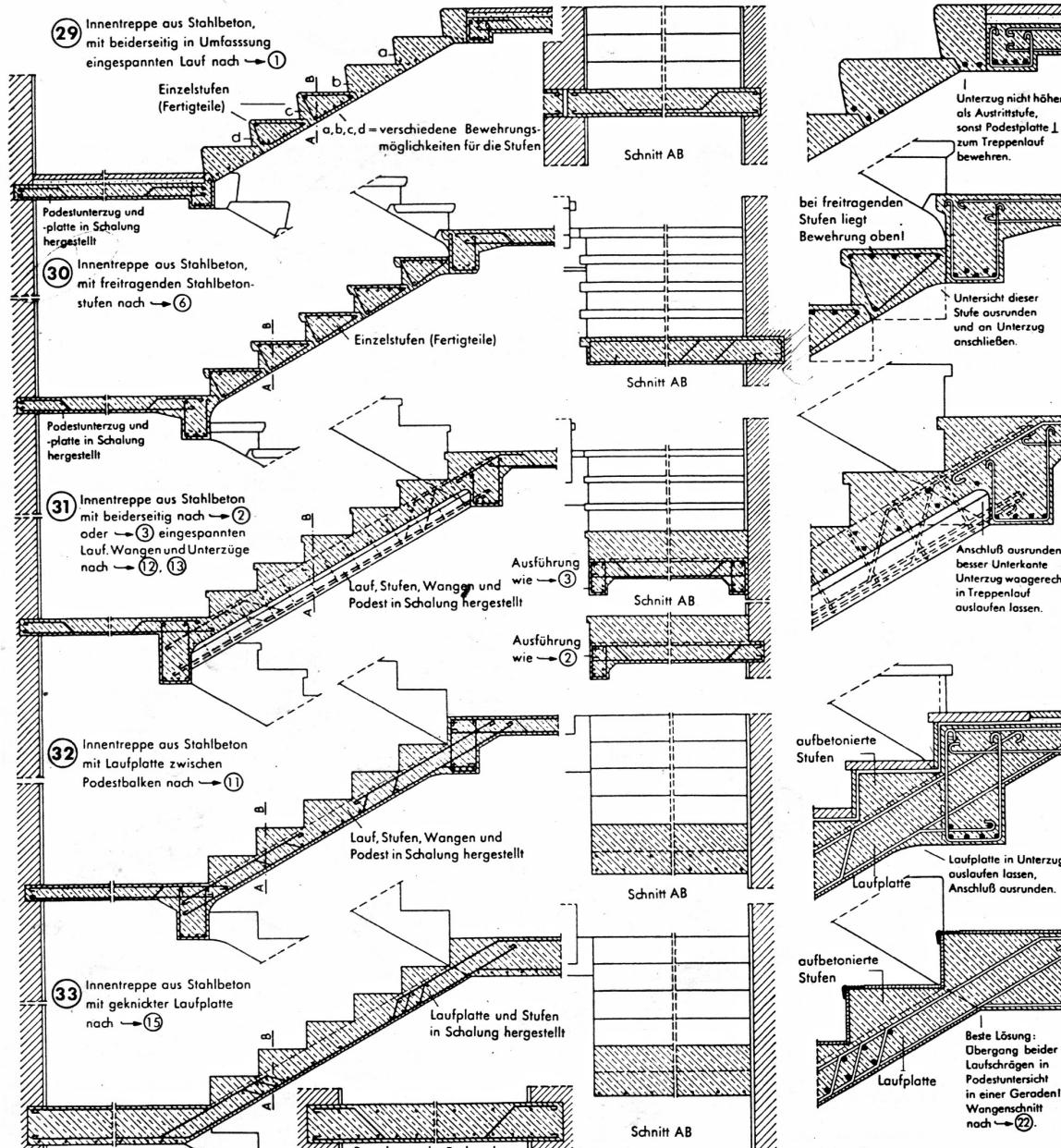
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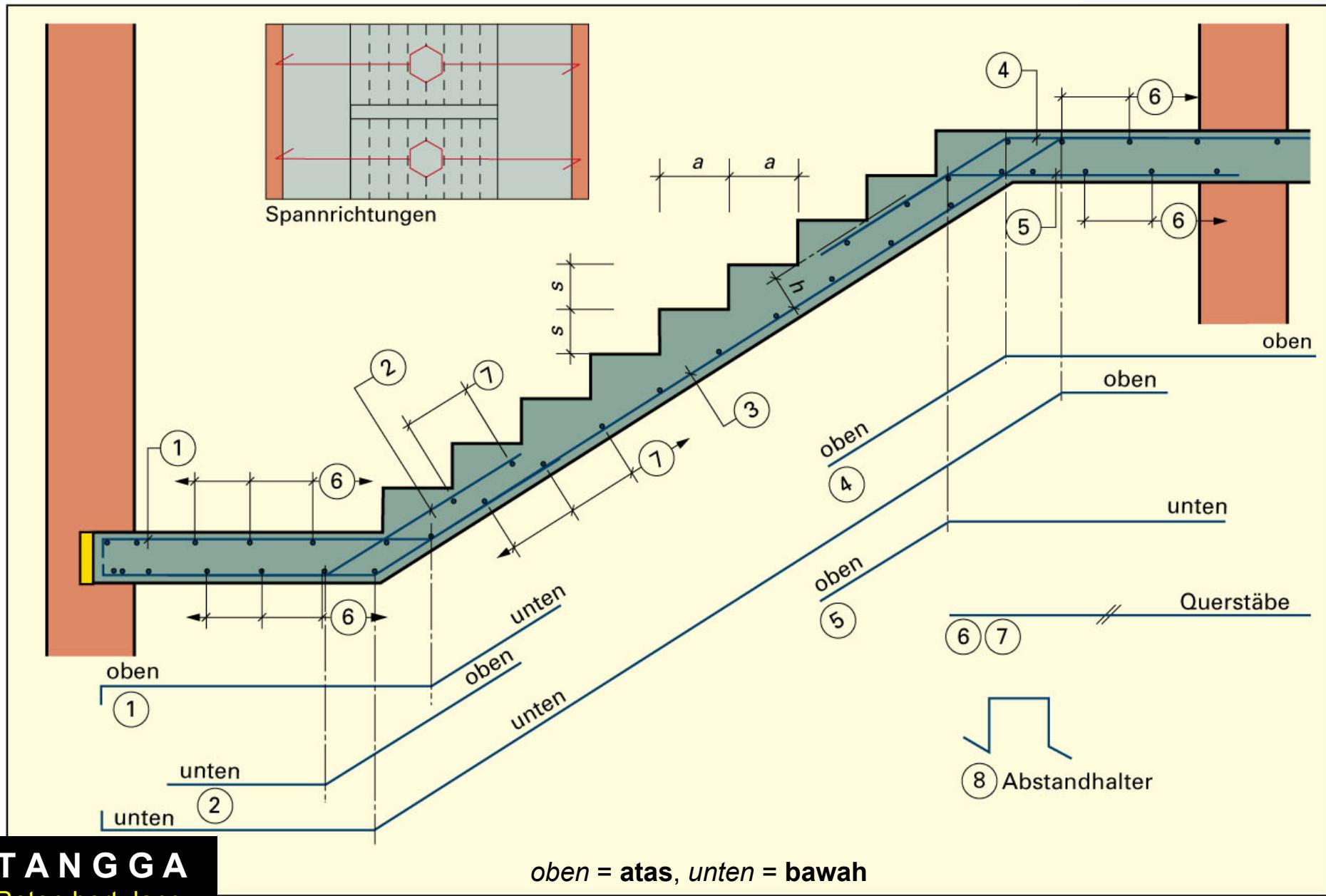


oben = atas, unten = bawah, Kehle = bagian tengah, Grat = bagian tepi

TANGGA

Beton bertulang

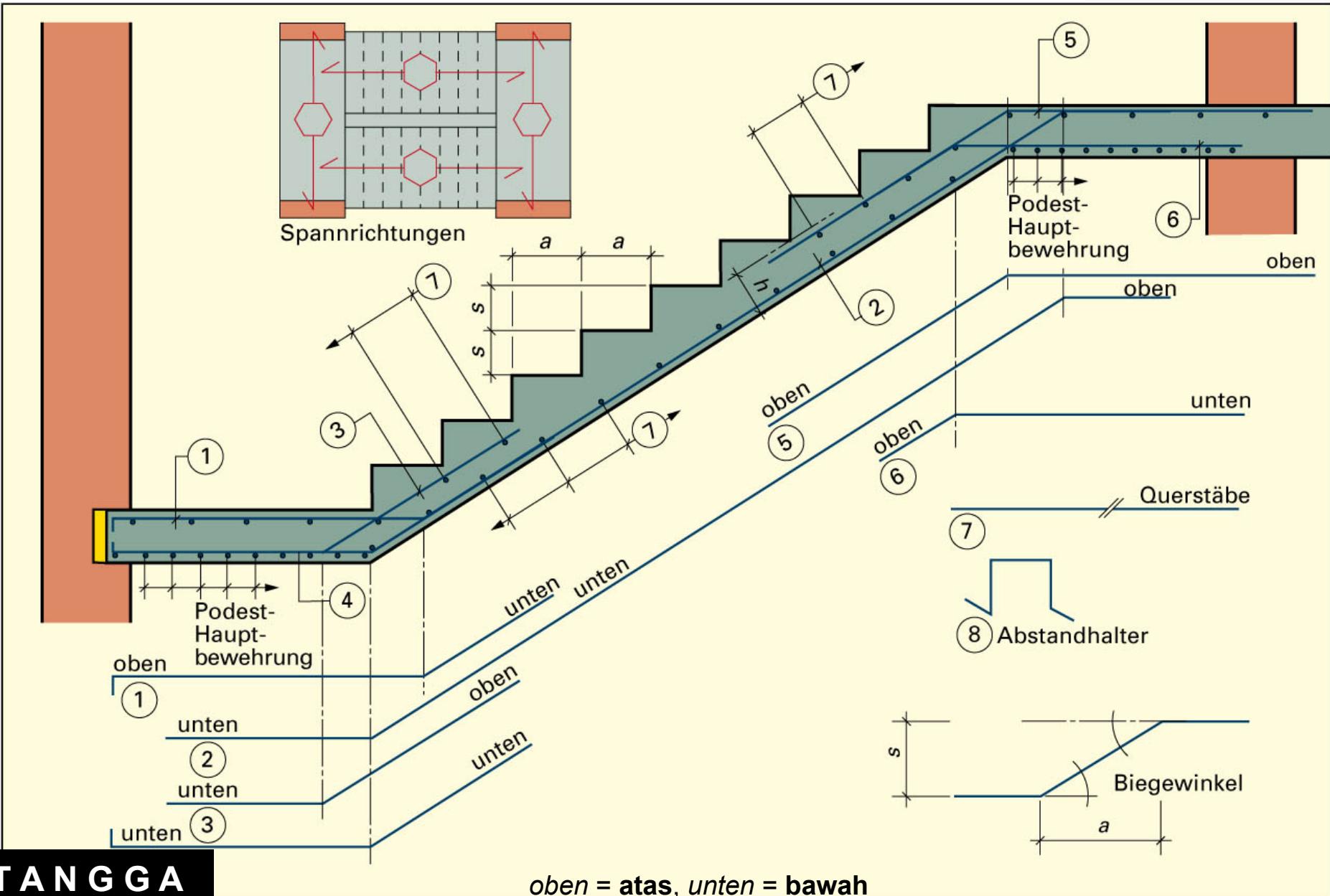


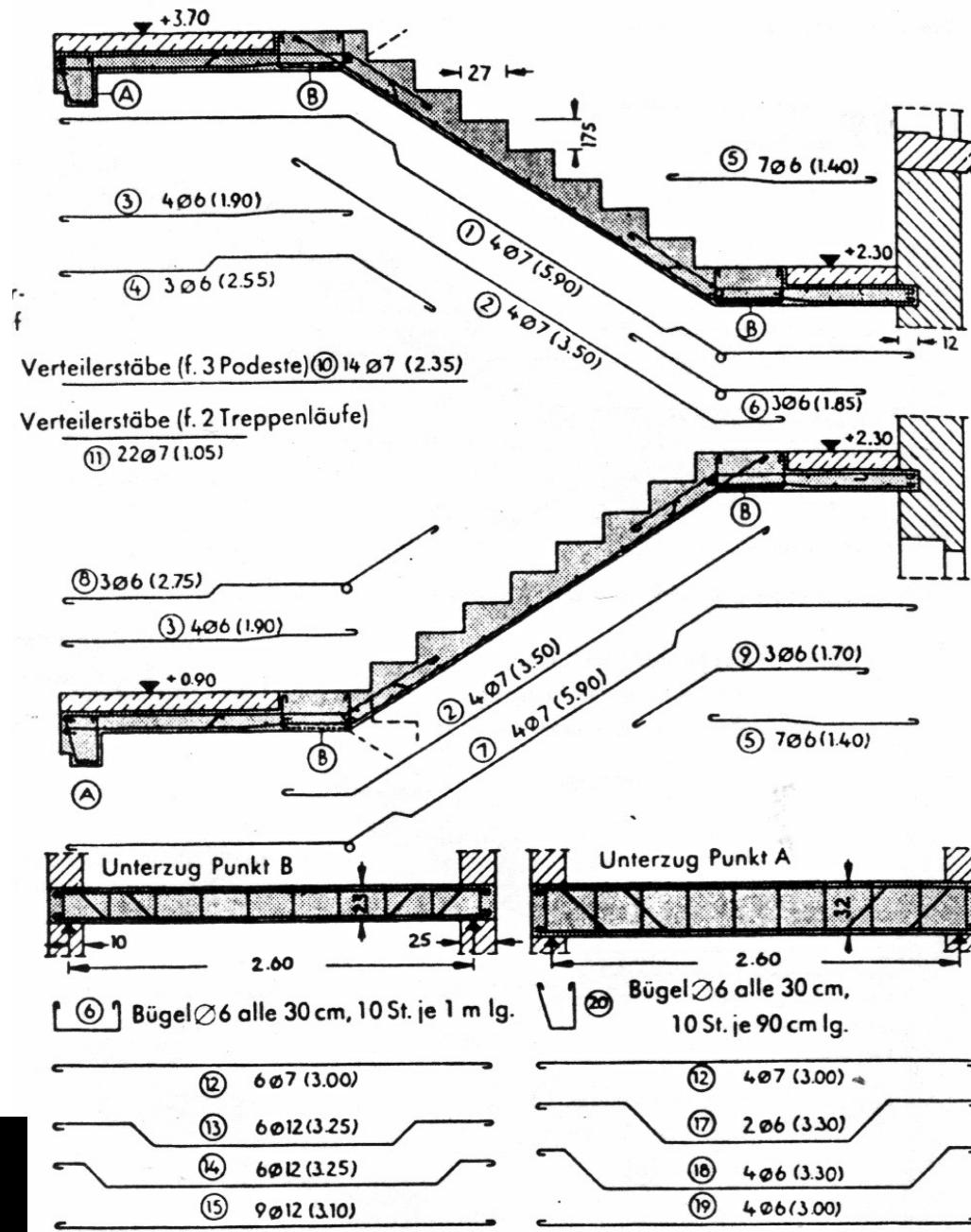


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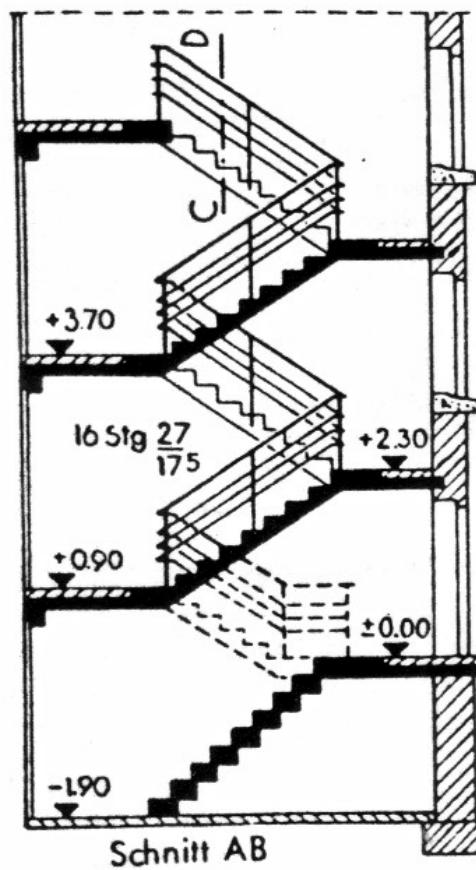
Beton bertulang

oben = atas, unten = bawah

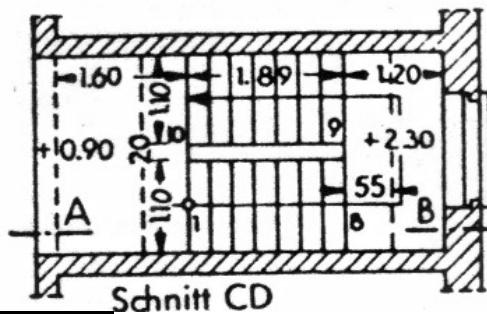




TANGGA
Beton bertulang



Schnitt AB

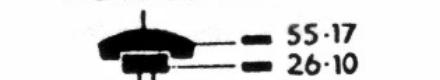


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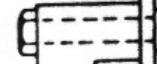
TANGGA

Beton bertulang

Handlauf aus Aluminium



Schnitt CD durch Geländer



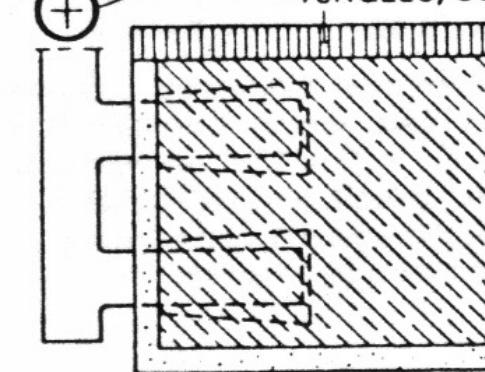
Wischenstäbe



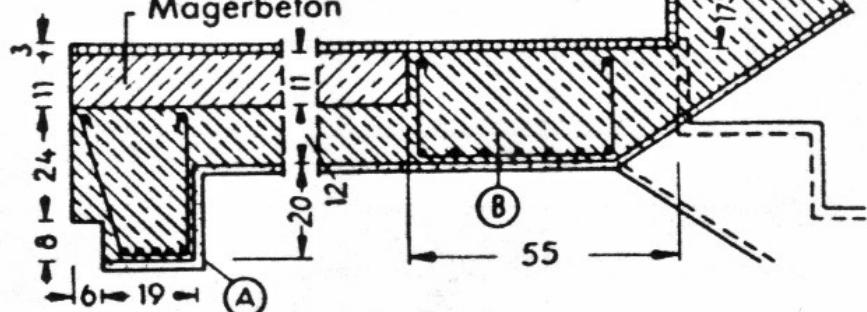
-1-



5 Zementestrich mit
Terrazzo, 30 mm



Magerbeton



Putz
15 mm

T 27

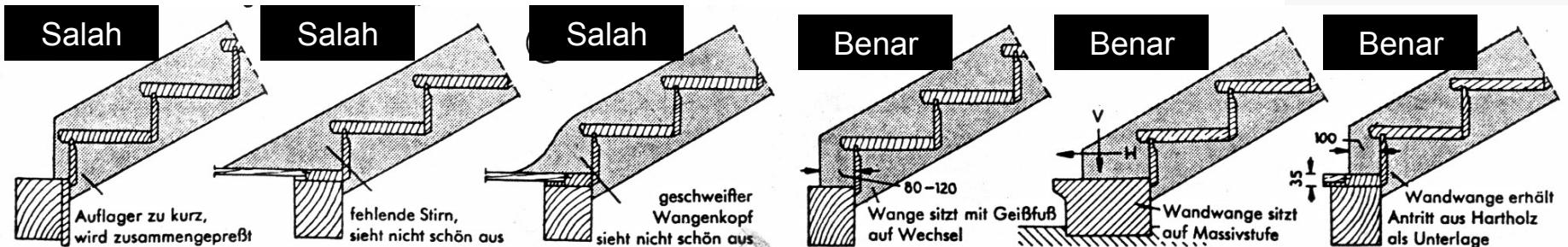
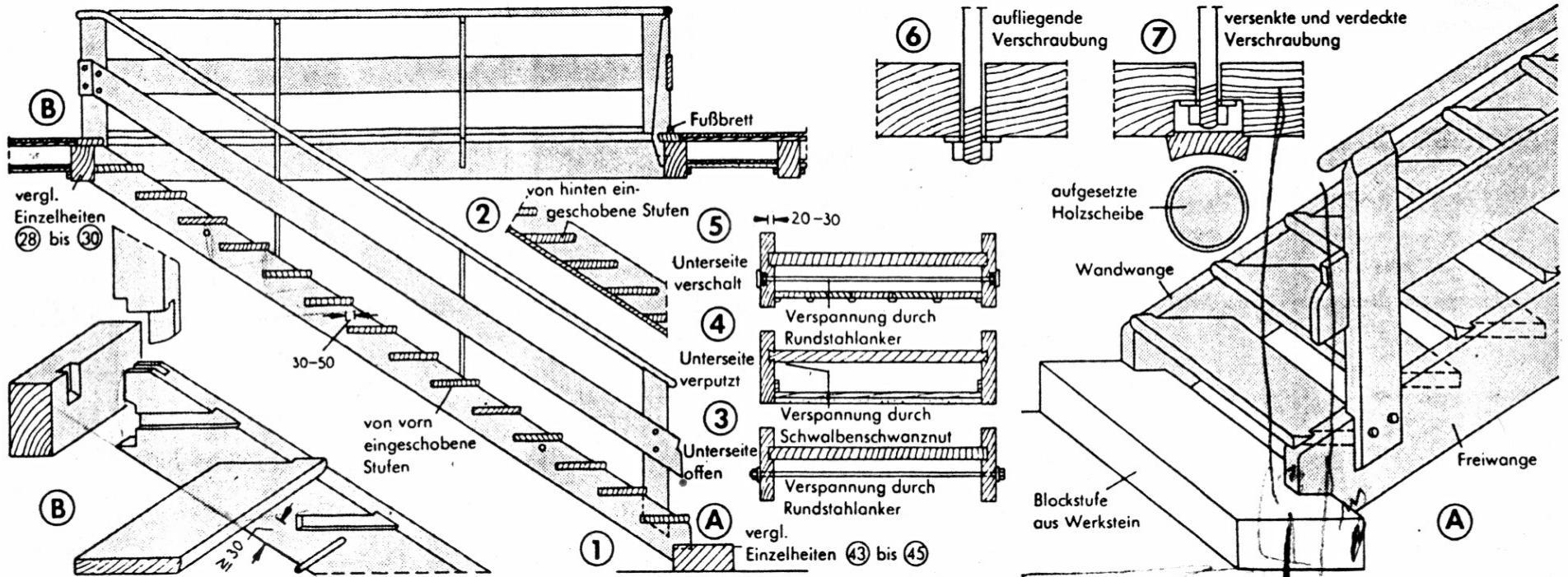
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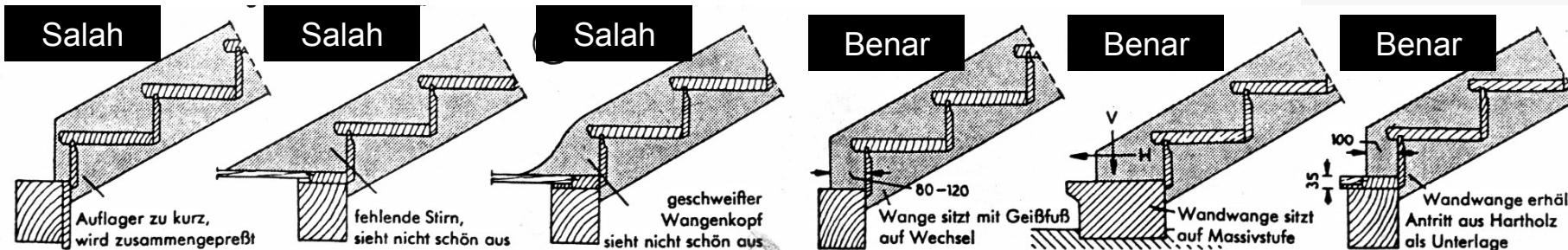
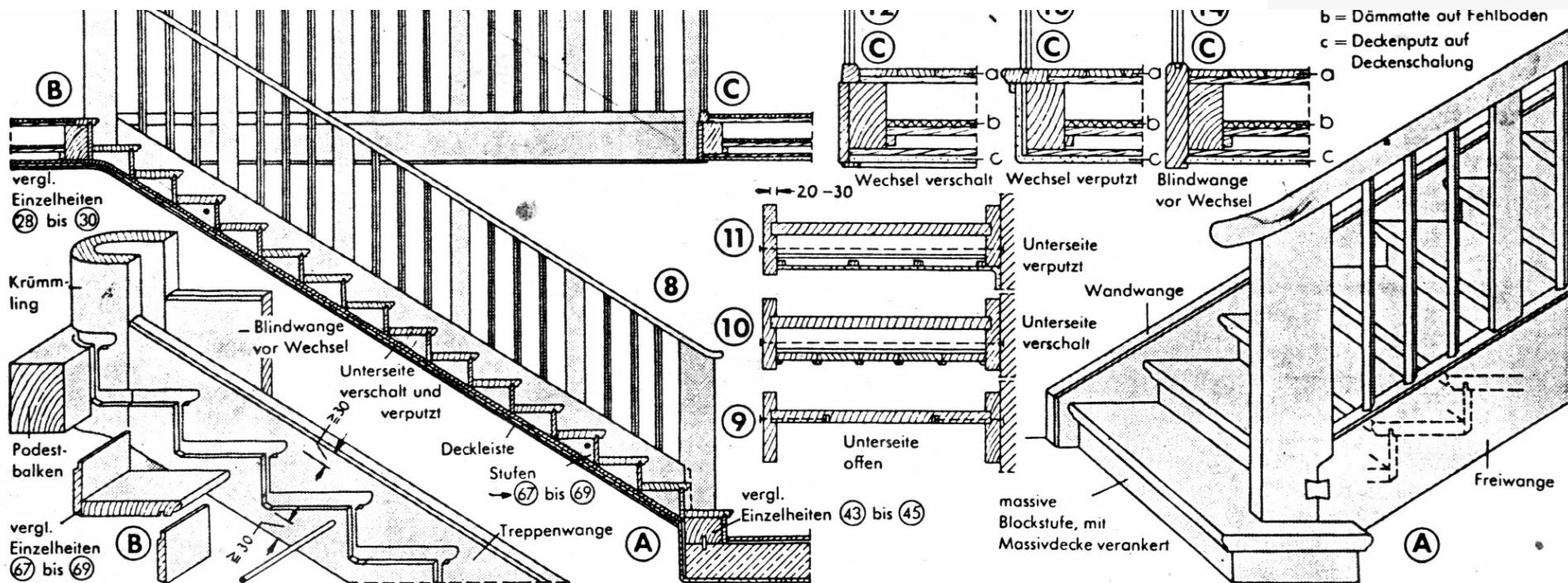
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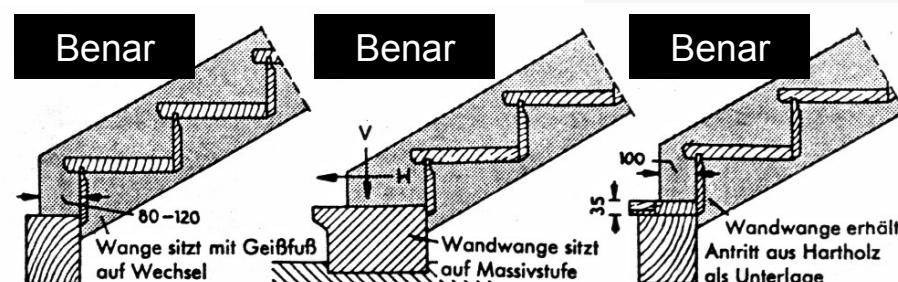
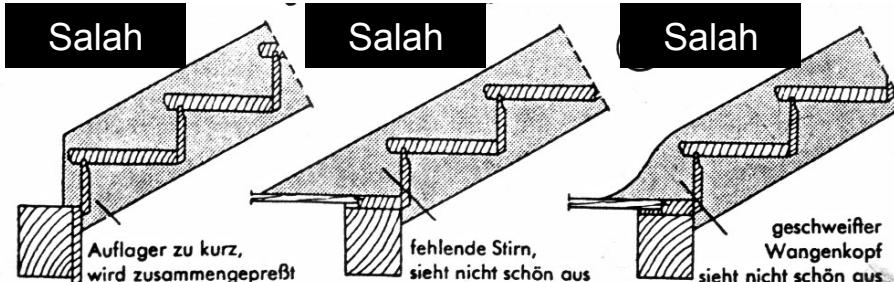
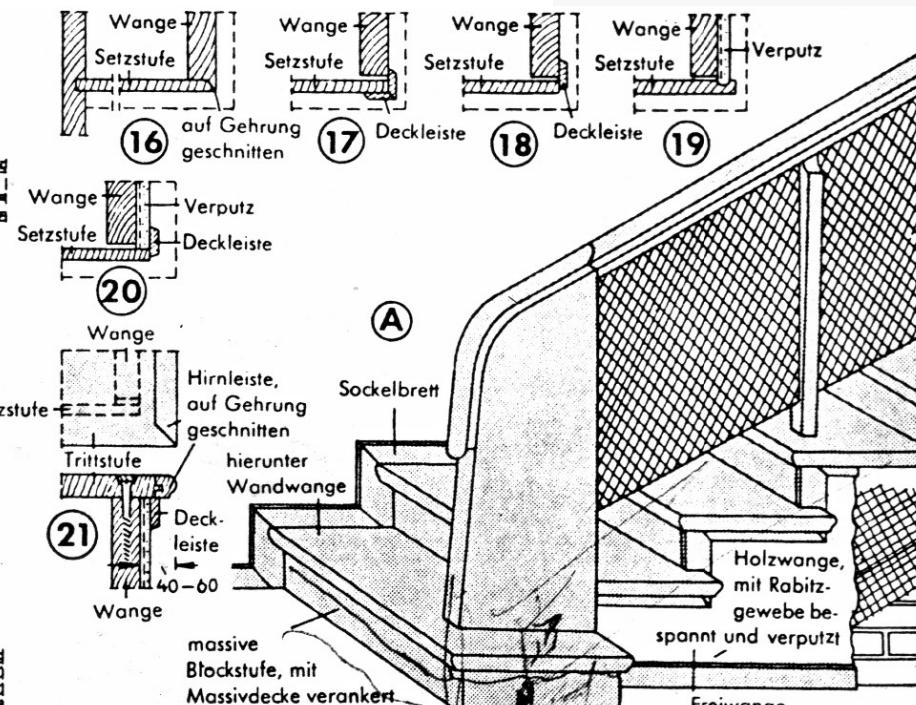
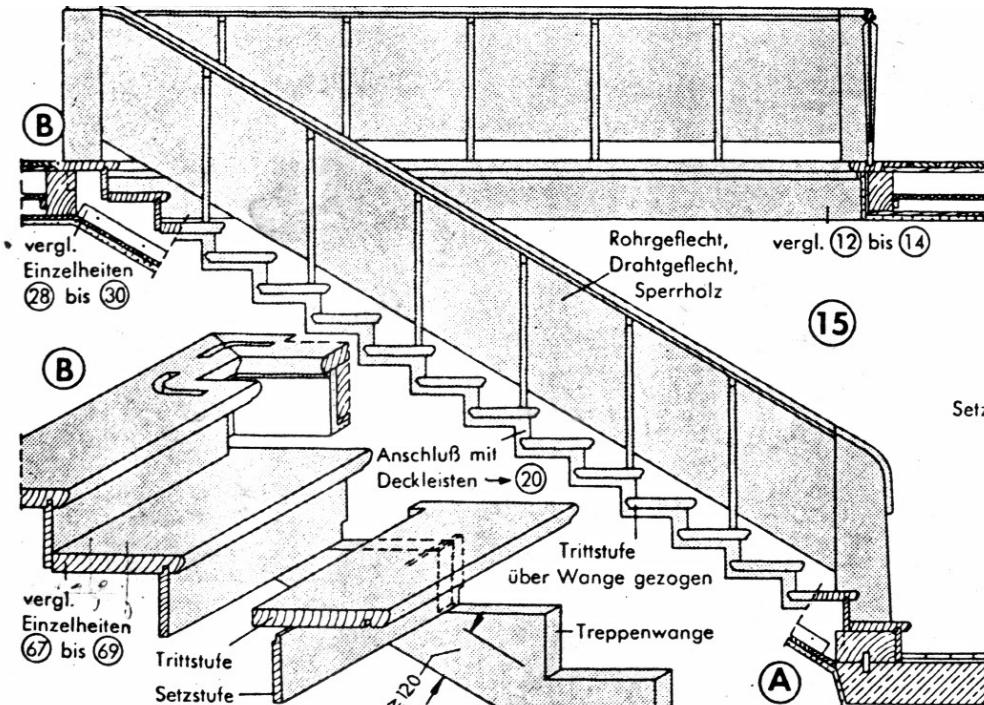
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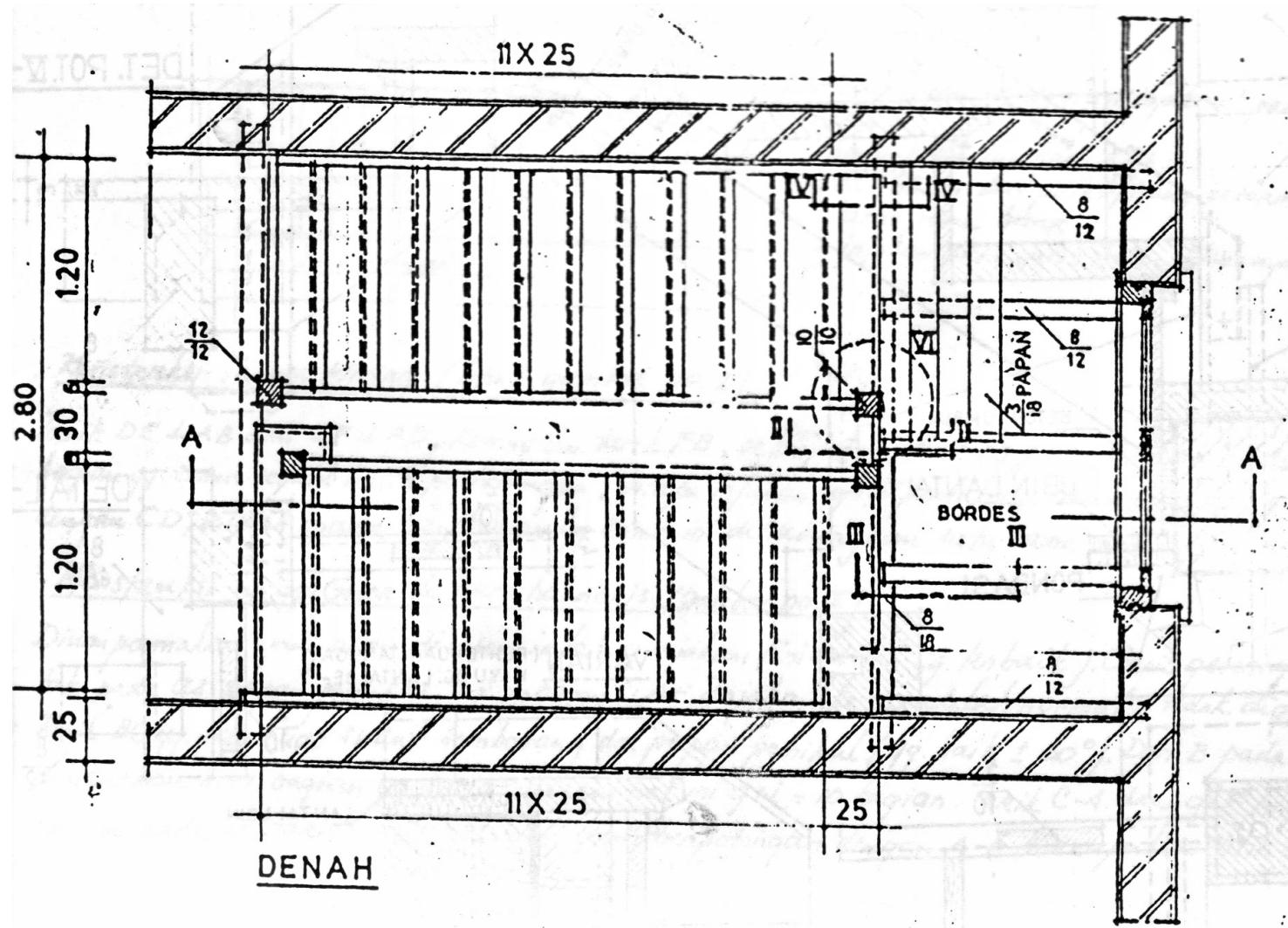
TANGGA
K a y u



TANGGA
K a y u



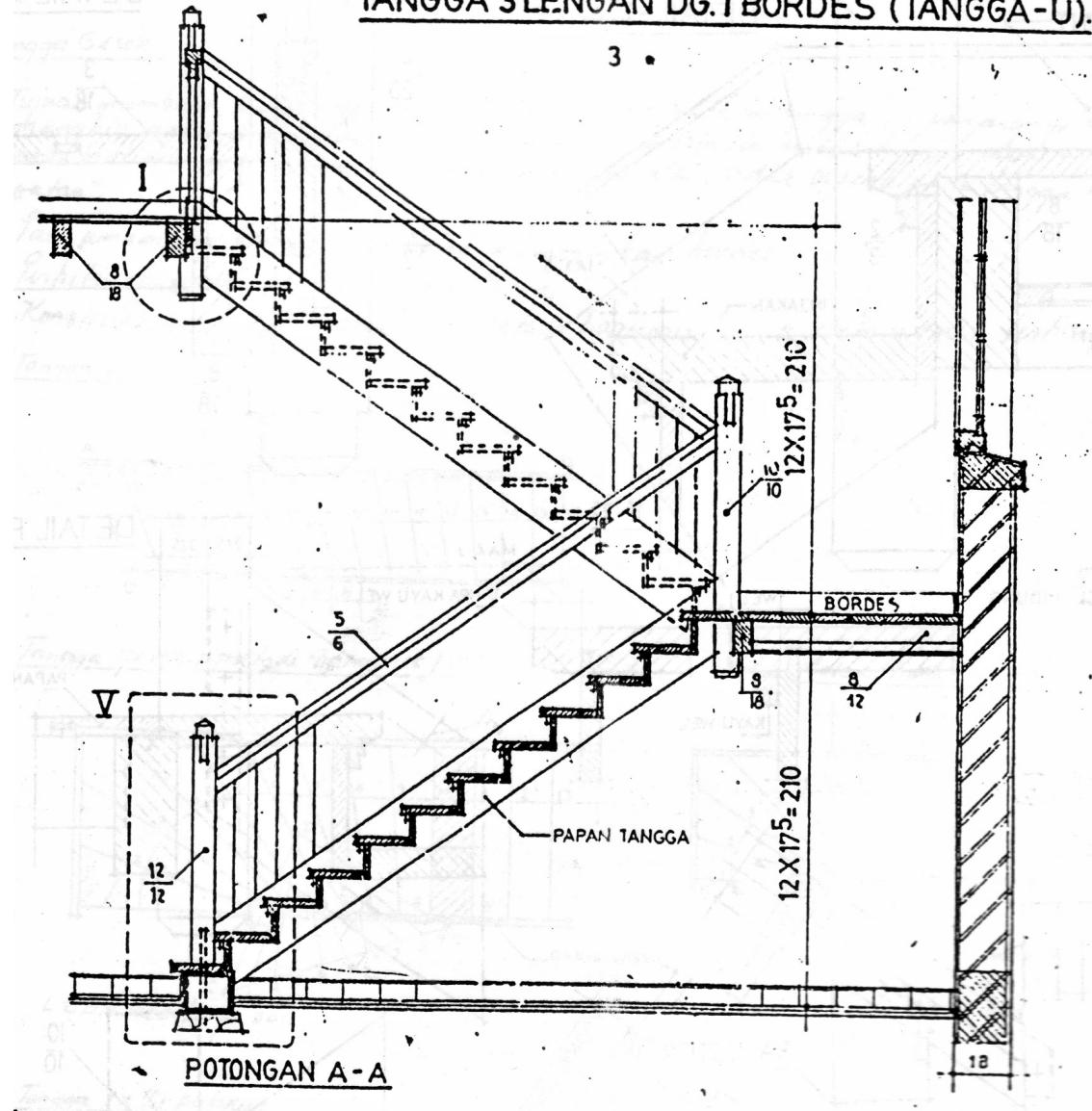
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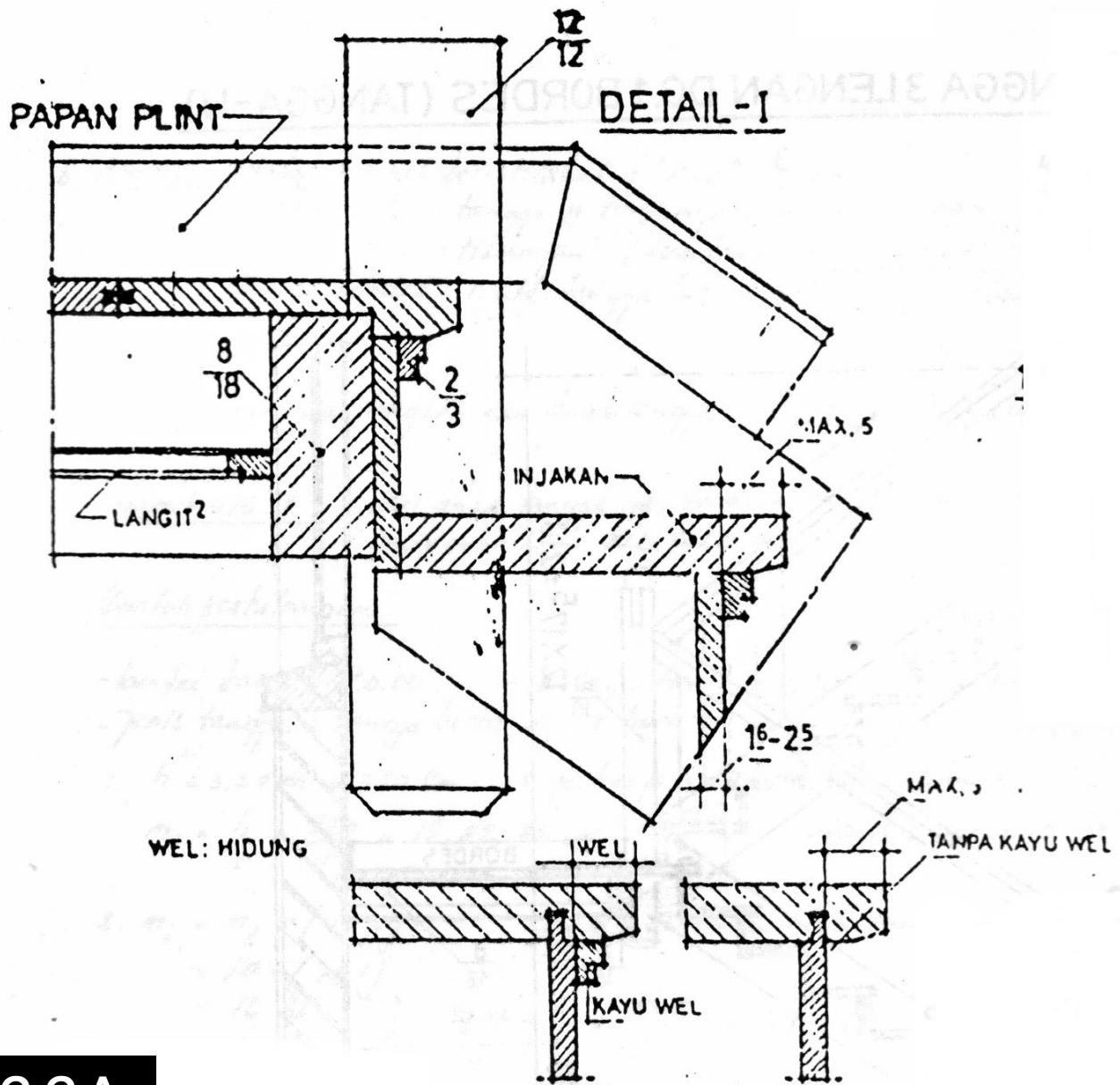
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K a y u

TANGGA 3 LENGAN DG.1 Bordes (TANGGA-U).

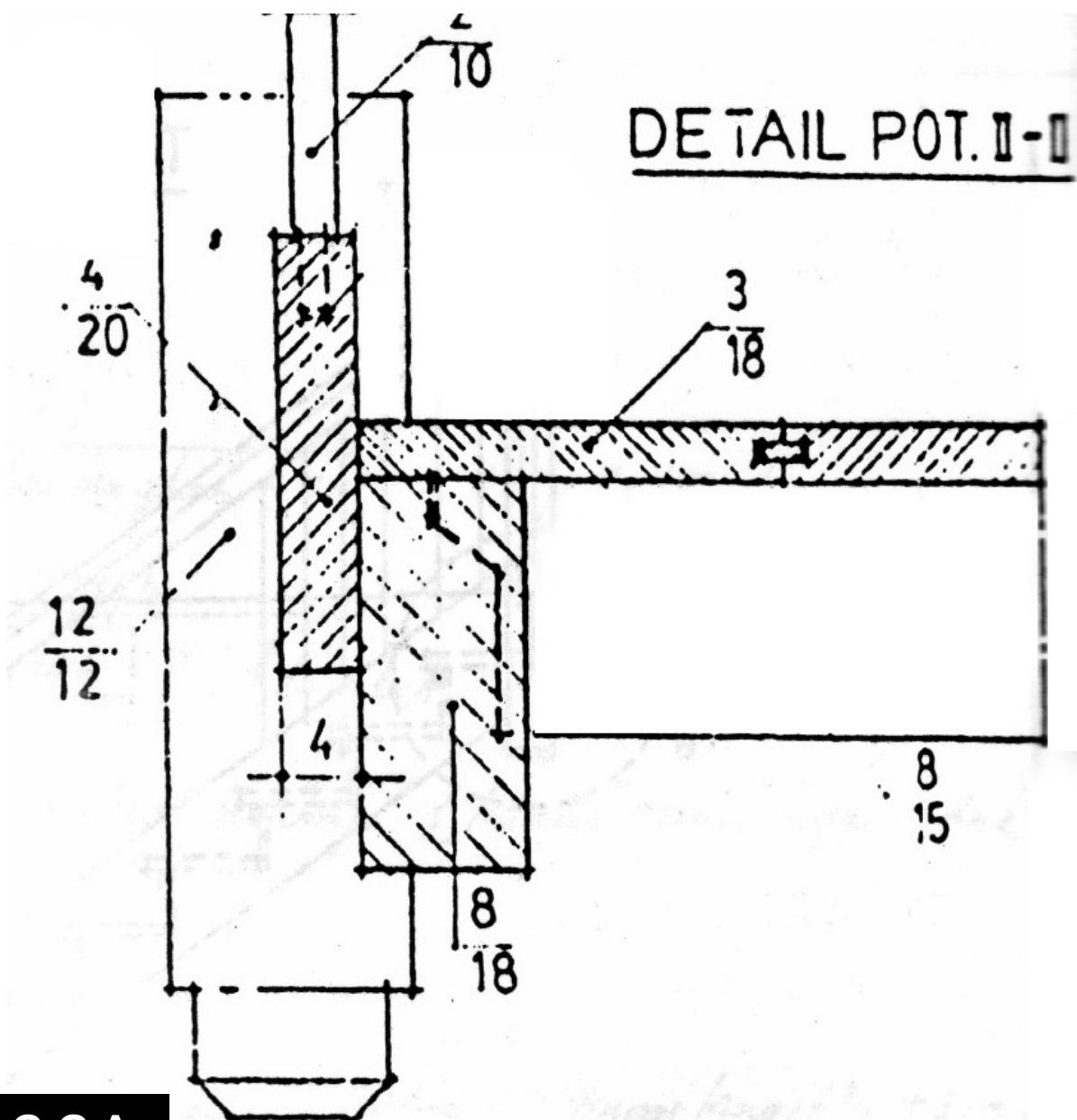
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K a y u

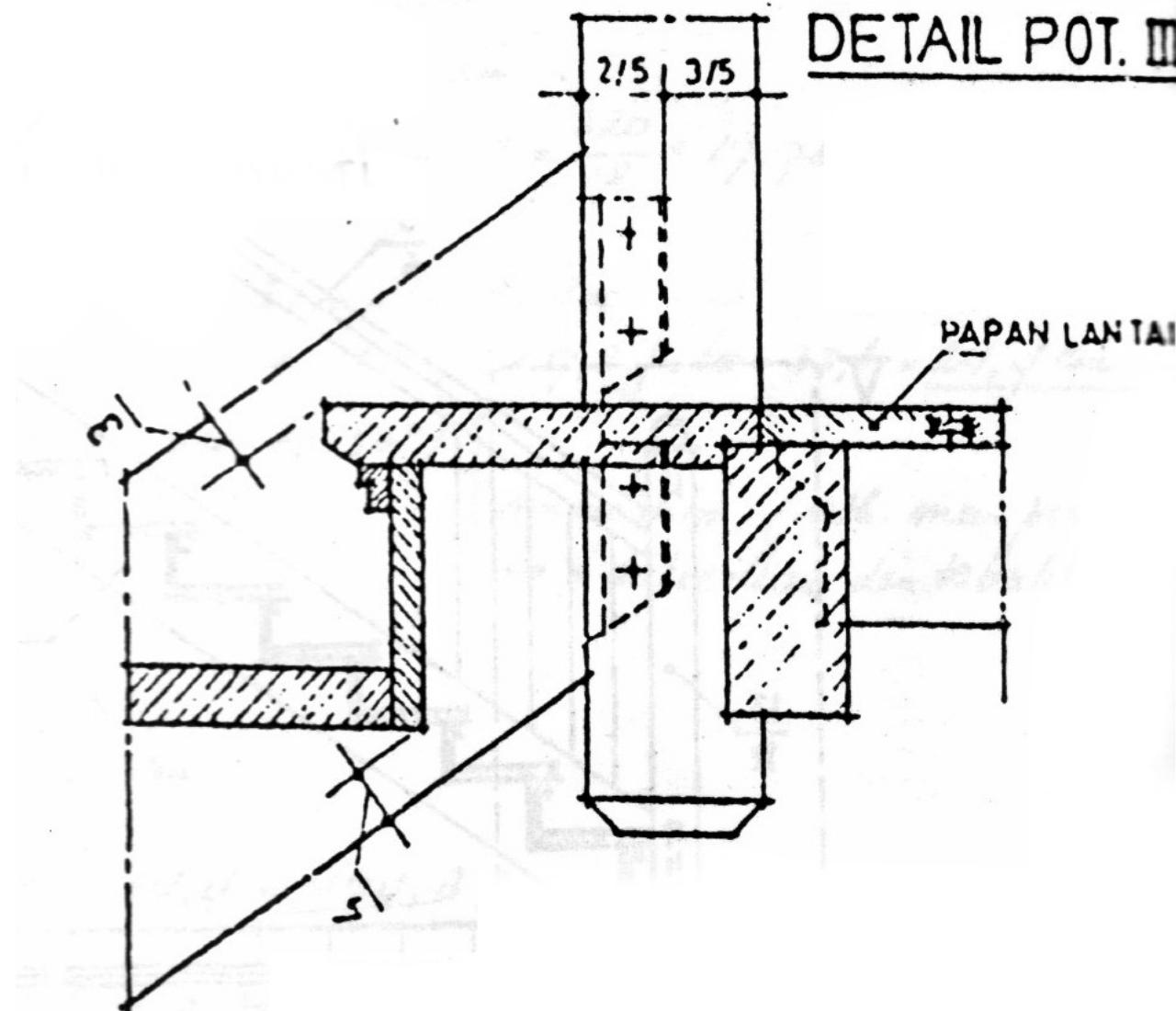


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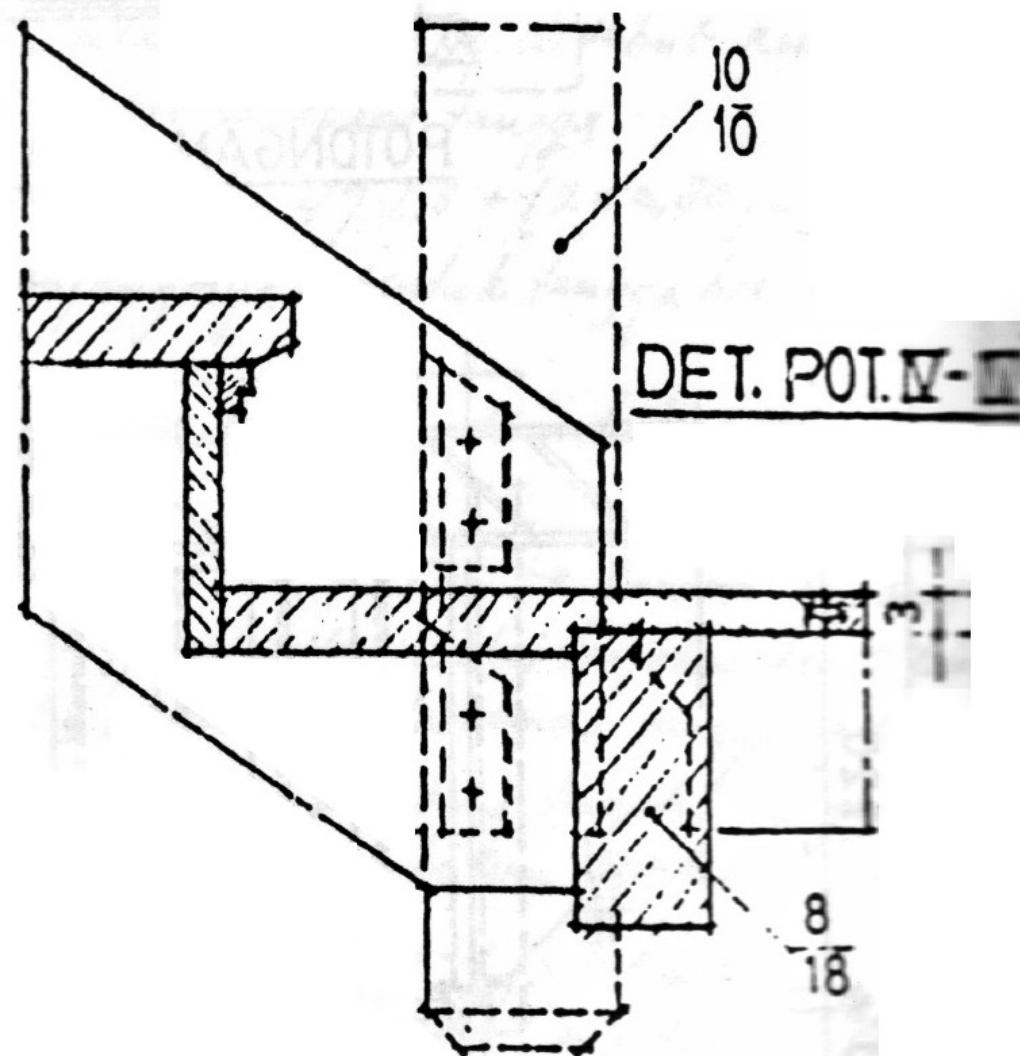


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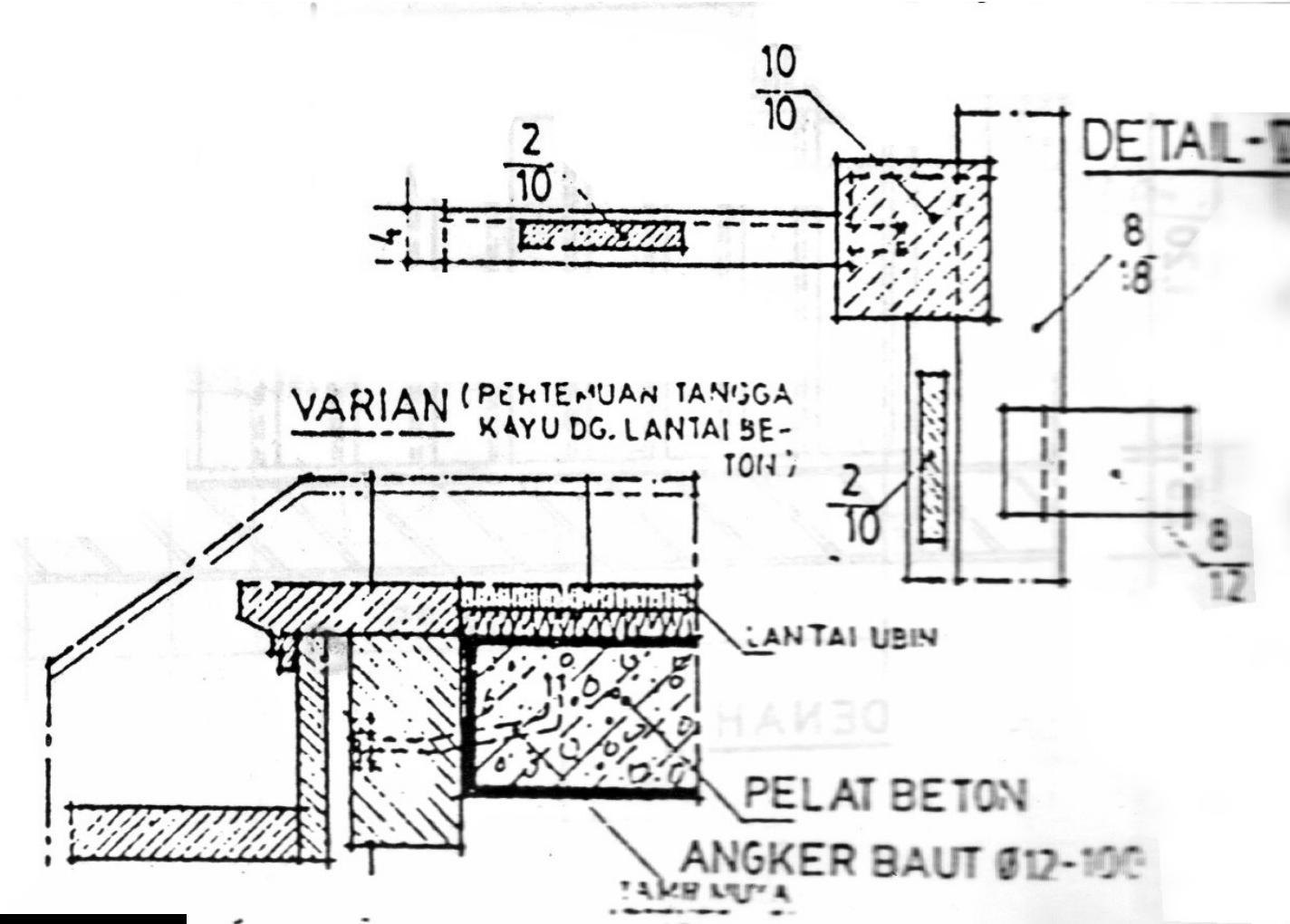
DETAIL POT. III-II



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K a y u



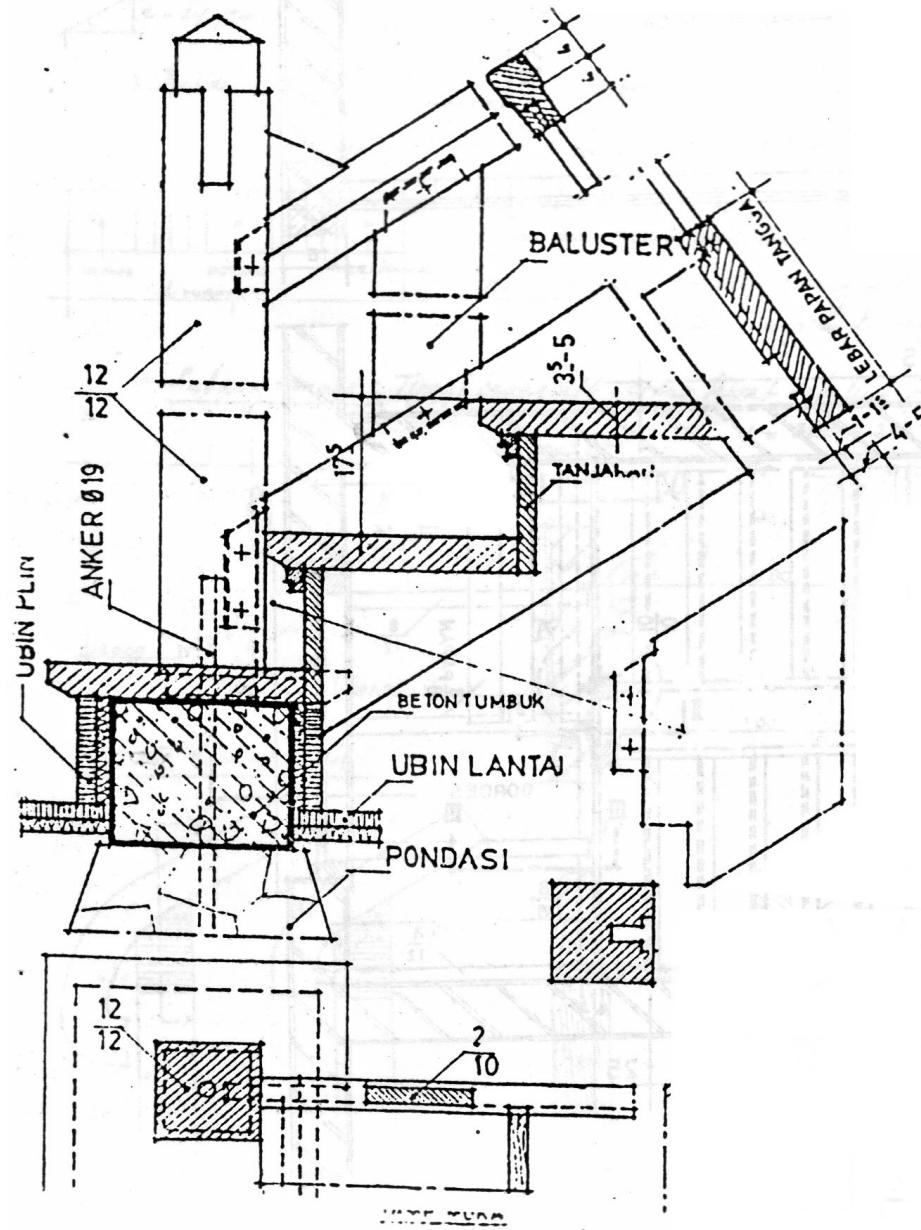
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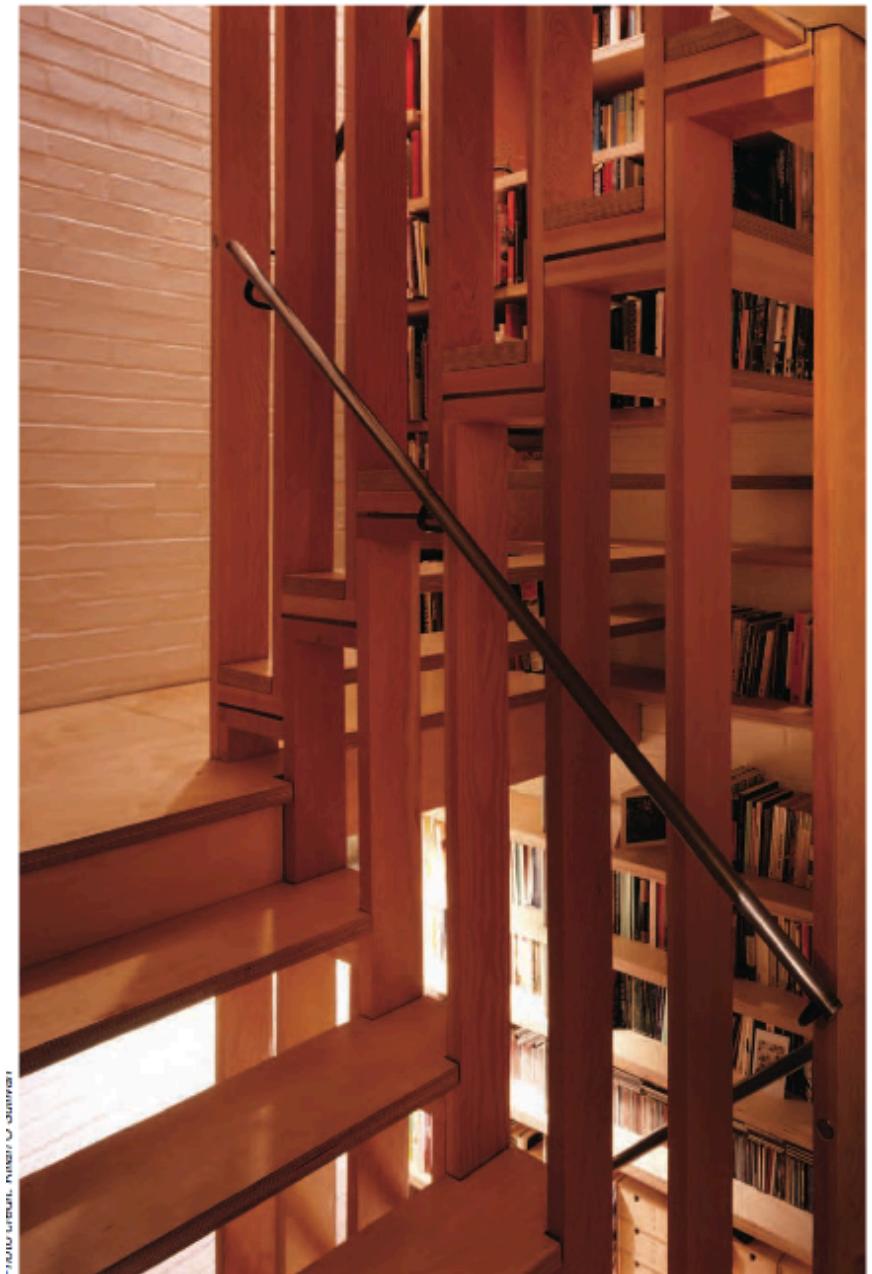
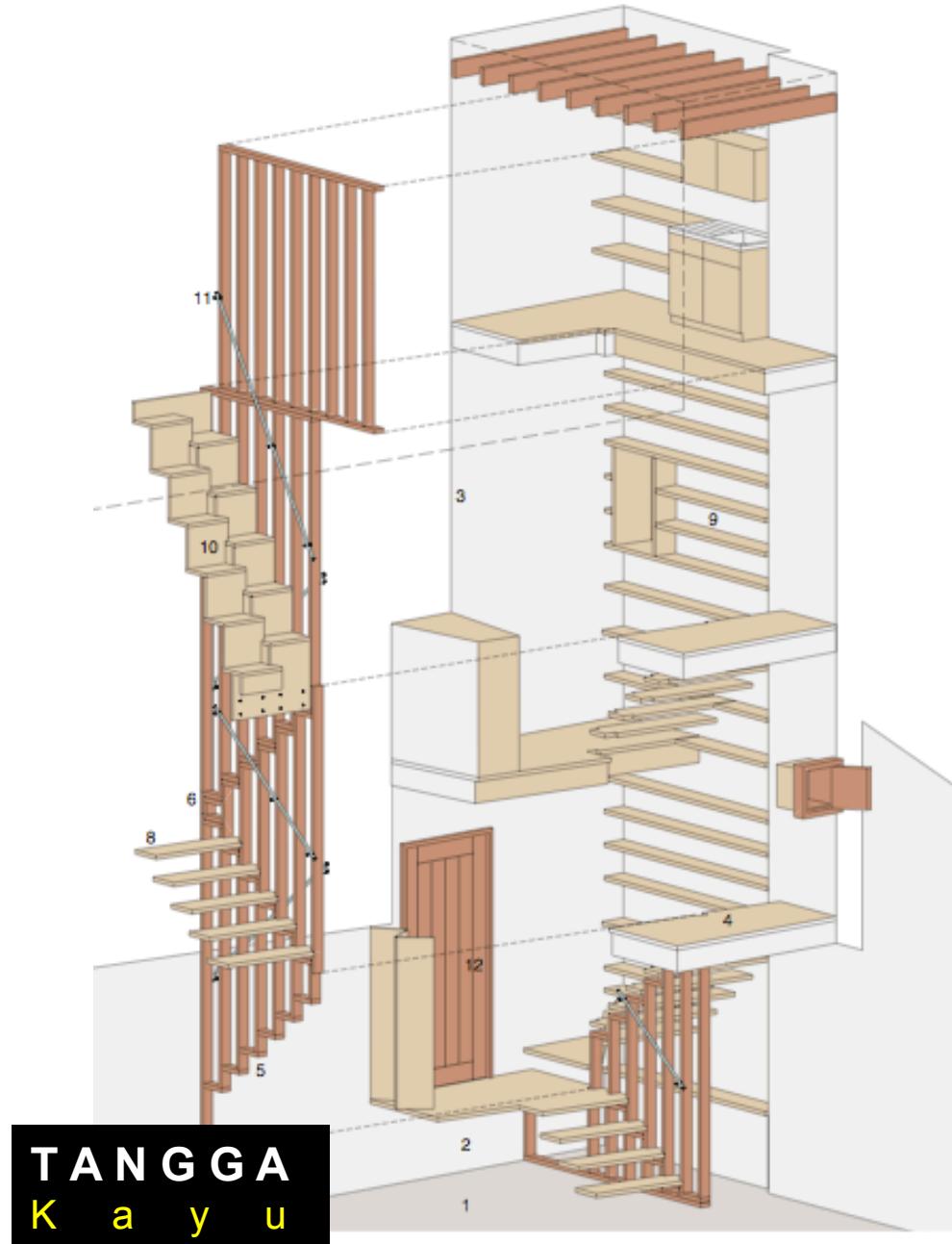


T A N G G A
K a y u u

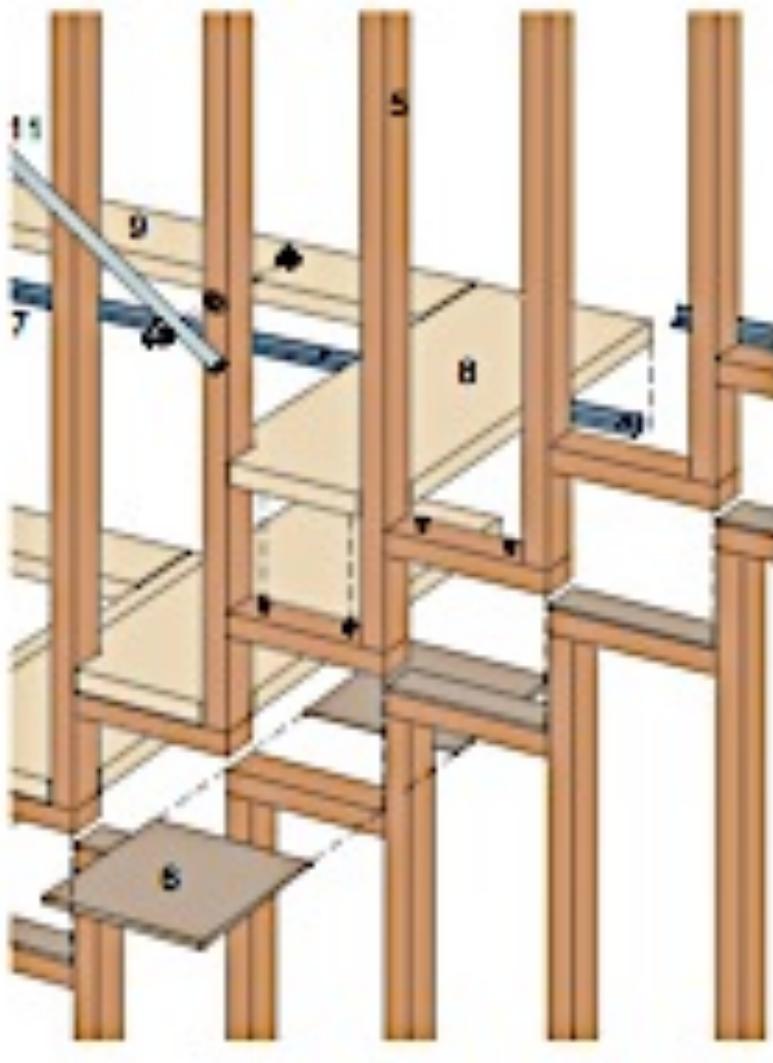
TANGGA K a y u

DETAIL V





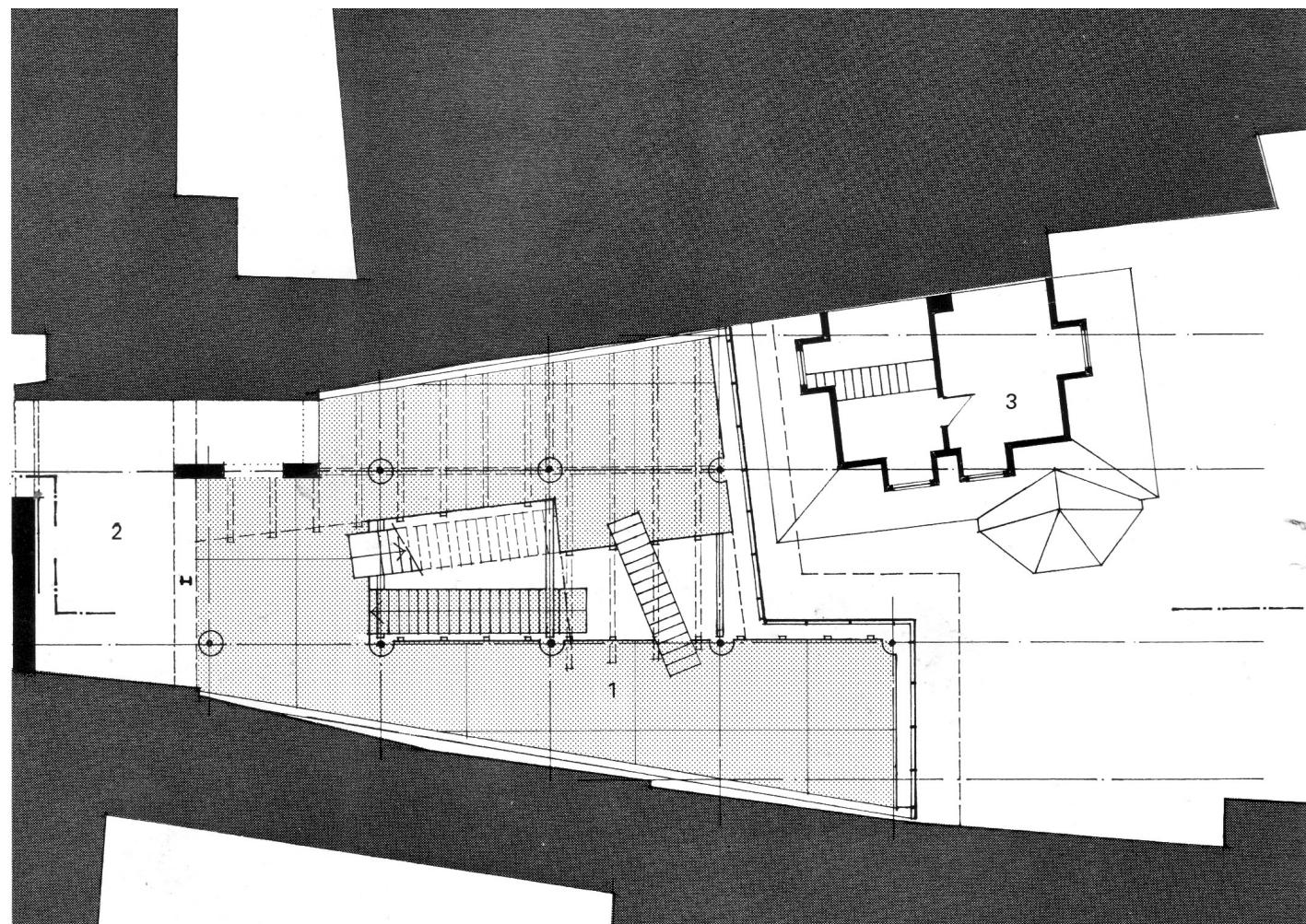
Moediartianto, ST, M.Sc © 2010



Alternate tread stair

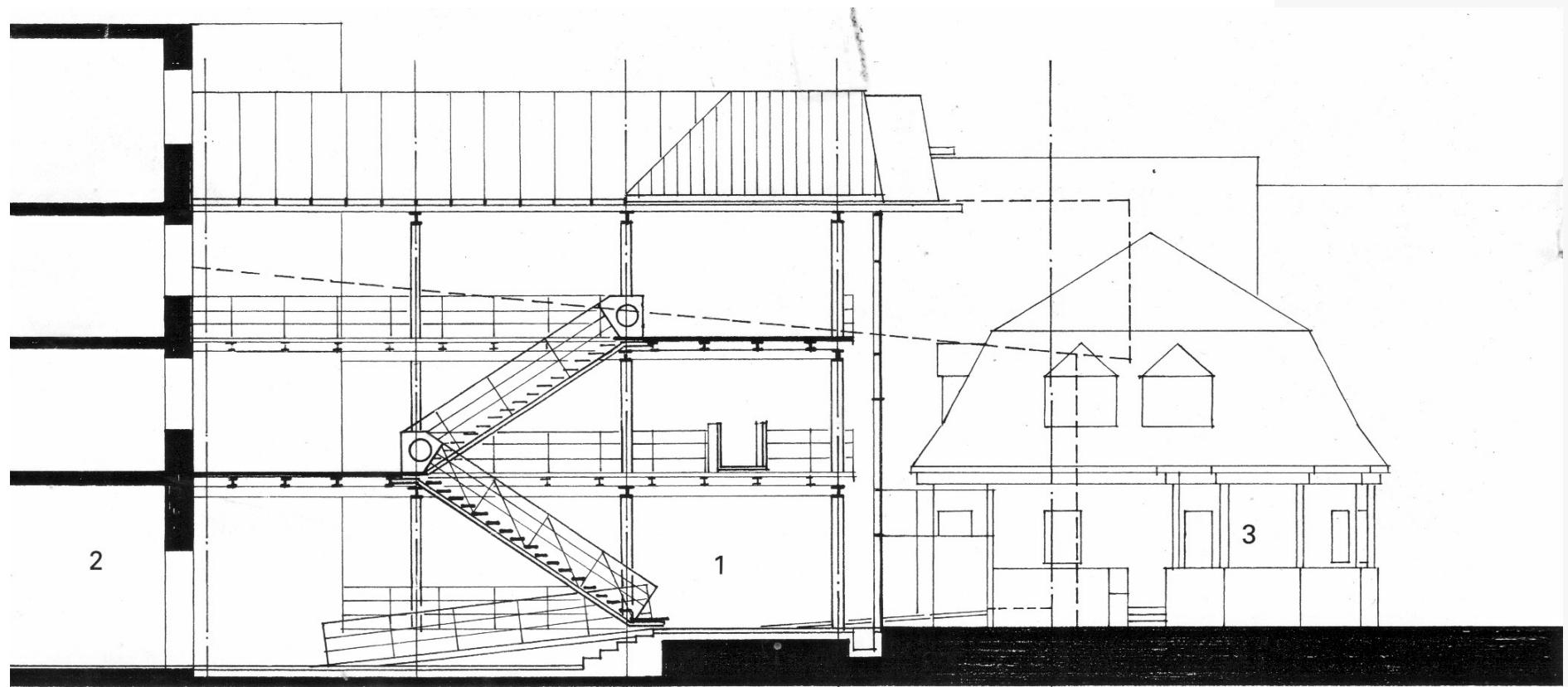
2485 x 1530 x 800 mm wide prefabricated staircase made up from biscued and glued 36mm birch faced plywood pieces. Lowest riser of stair extends down to form 2nd floor landing edge and bears on 100 x 100 x 8 mm mild steel angle bolted to landing trimmer joists via timber batten secret- fixed into rear of riser.

Top riser extends up to form 3rd floor landing edge and bears on landing trimmer joists via 25 x 40 mm mild steel angle secret-fixed into rear of riser.



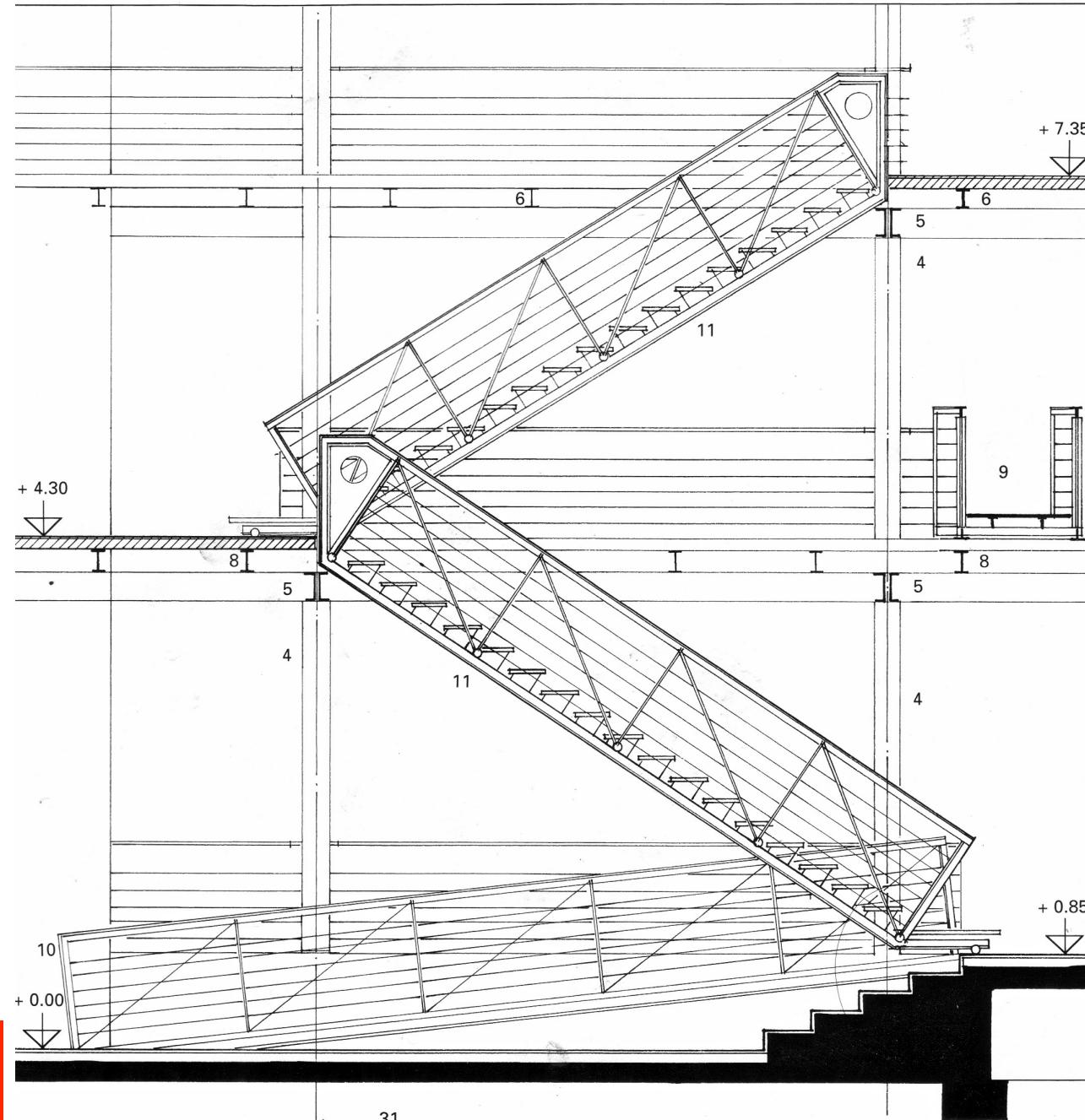
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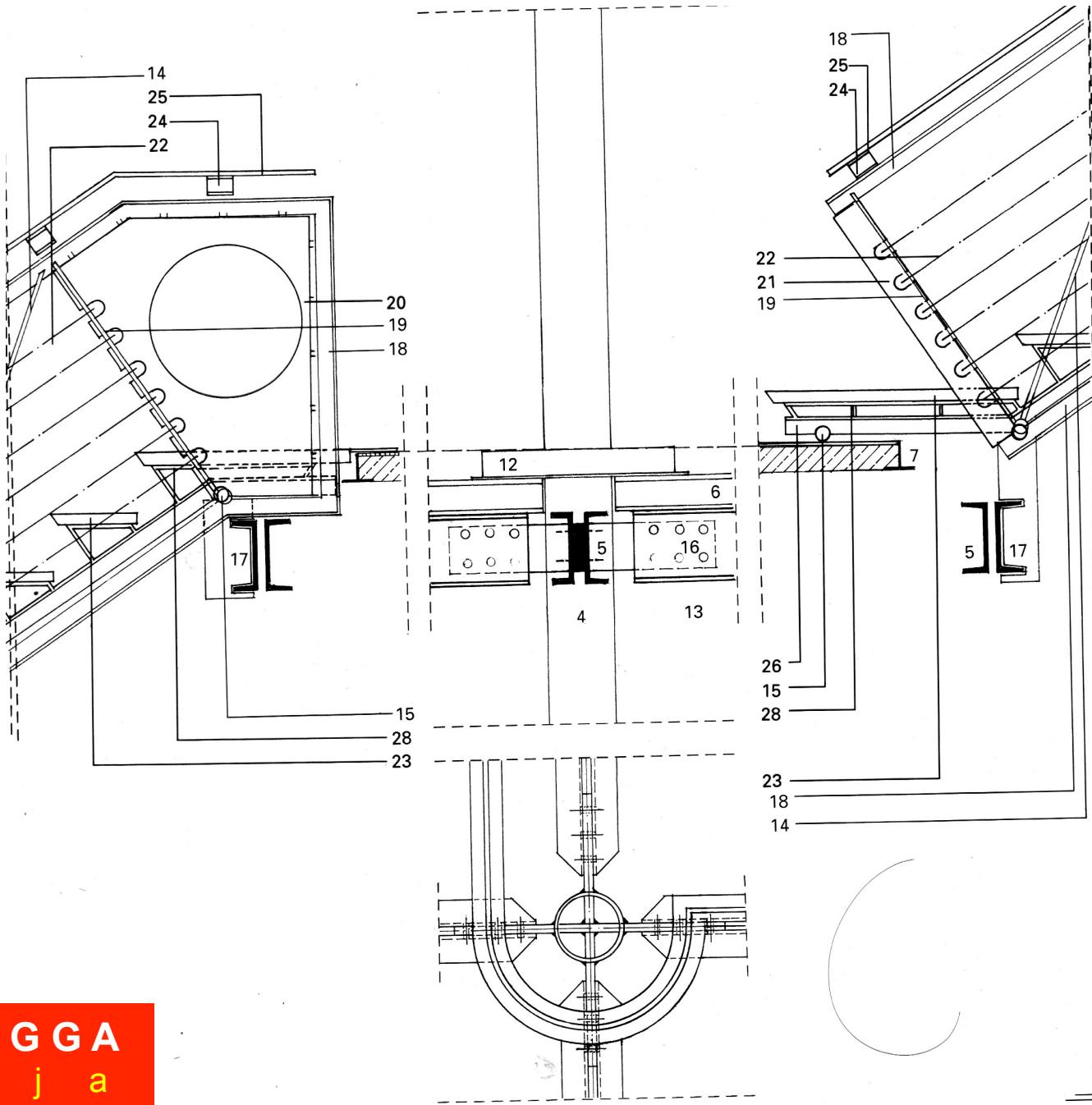


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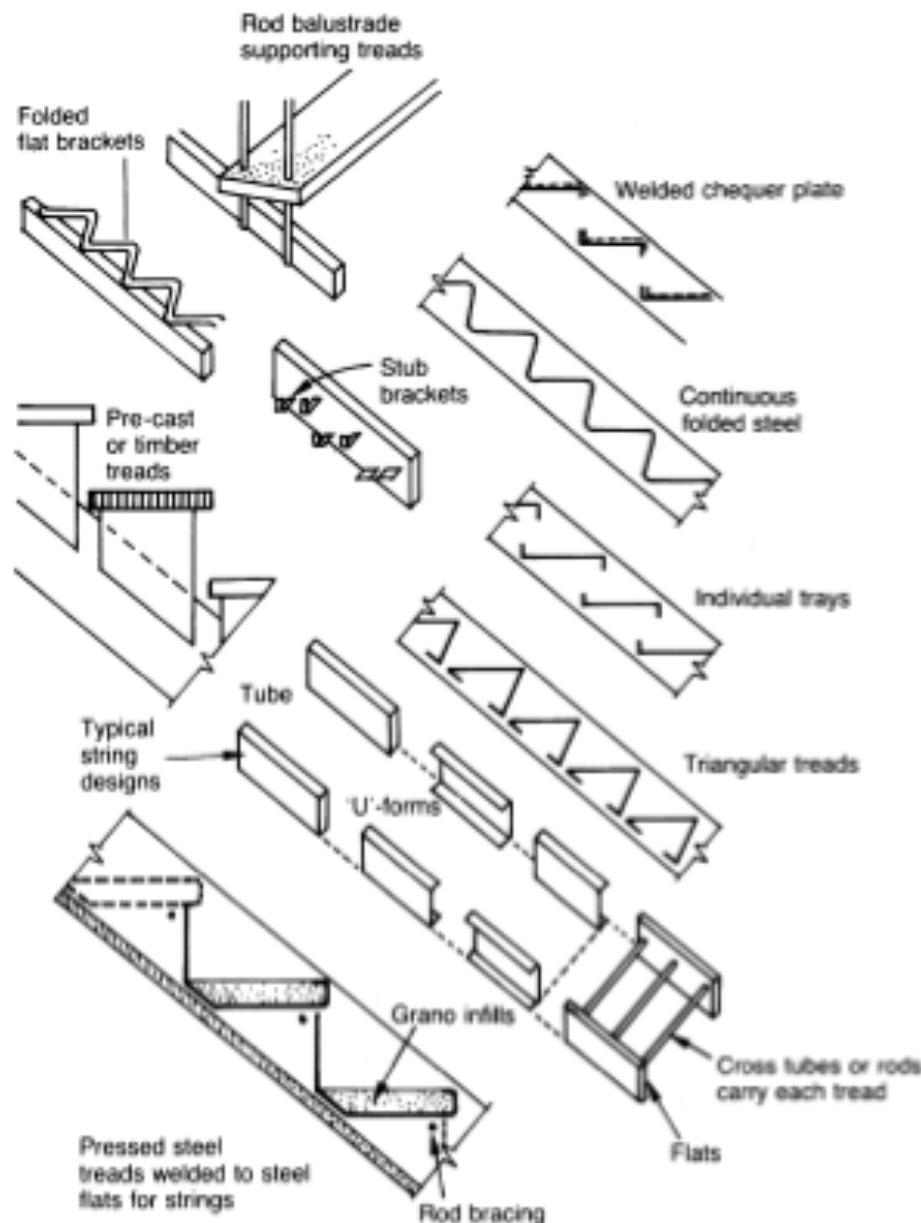


Figure 7.3b Folded steel stairs: Profiles for folded sheet stairs or treads

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