



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIORSERTIFIKAAT-EKSAMEN/ NASIONALE SENIORSERTIFIKAAT-EKSAMEN

INGENIEURSGRAFIKA EN -ONTWERP V1

MEI/JUNIE 2024

NASIENRIGLYNE

DEPARTMENT OF BASIC EDUCATION
PRIVATE BAG X695, PRETORIA 0001
2024 -05 - 14
APPROVED MARKING GUIDELINE
PUBLIC EXAMINATION

PUNTE: 100

Hierdie nasienriglyne bestaan uit 8 bladsye.

AB   

ANTWOORDE		
1	NAGESIEN	1
2	1 : 500	1
3	08/05/2023	1
4	KONTRAKTEURS	1
5	6	1
6	2	1
7	INSPEKSIEOOG	1
8	ROTSVLAK	1
9	STRUIKE	1
10	BOULYN	1
11	MUNISIPALE <u>WATERTOEOVOER</u>	1
12	1,8	1
13	100	1
14	<u>RIGTING VAN VLOEI</u>	1
15	WATERMETER	1
16	10	2
17	GROEN	1
18	SSW / SUID -SUID-WES SW / SUID -SUID-WES	2
19	Sien hieronder	3
20		3
21		4
TOTAAL		30

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ANTWOORD 19
Toon ALLE berekeninge.

PAS KORREKTE FORMULE TOE ✓

$$S = P - (S + S + S + S)$$

$$= 173,56 - (48,04 + 47,96 + 25,95 + 34,58)$$

$$= 17,03 \quad \checkmark \quad \checkmark$$

ANTWOORD 20
Toon ALLE berekeninge.

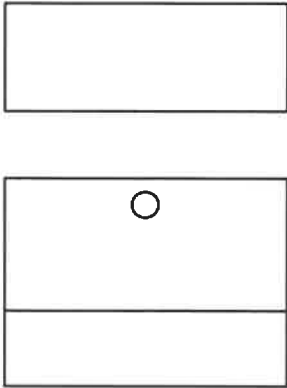
PAS KORREKTE FORMULE TOE ✓

$$A = (L \times B) + (L \times B) + \dots$$

$$= (30 \times 13) + (5 \times 10) + (21 \times 10,5) + (9 \times 2)$$

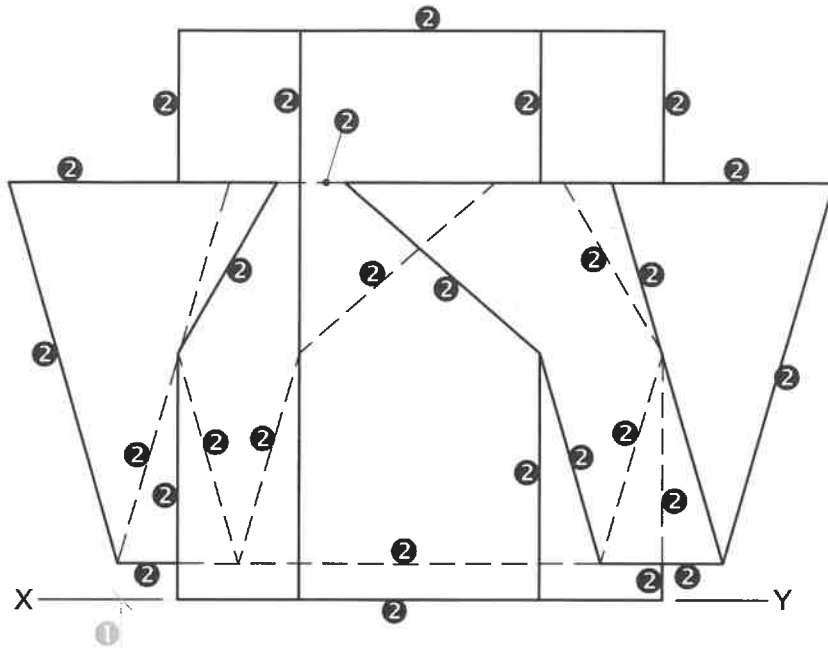
$$= 678,5 \text{ m}^2 \quad \checkmark \quad \checkmark$$

ANTWOORD 21



VRYHAND	1
REGHOEK	✓1
BOONSTE REGHOEK	✓1
ONDERSTE REGHOEK	✓1
SIRKEL	1

VRAESTEL 1 VRAAG 1
GRAAD 12
DBE MEI/JUNIE 2024
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AB

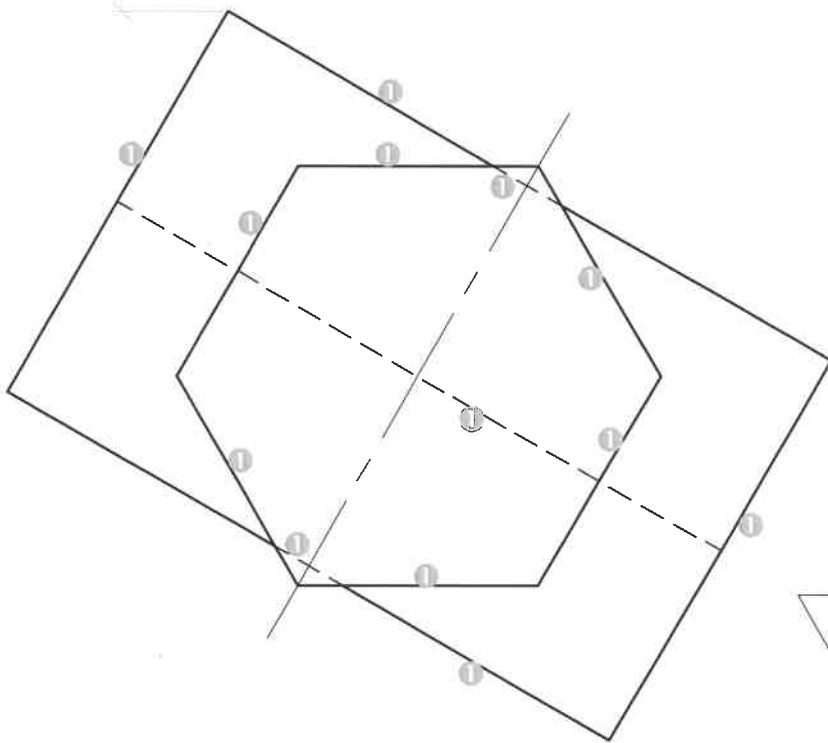
B

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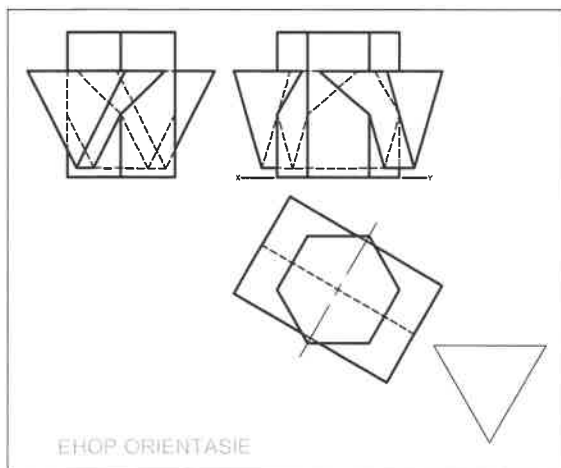
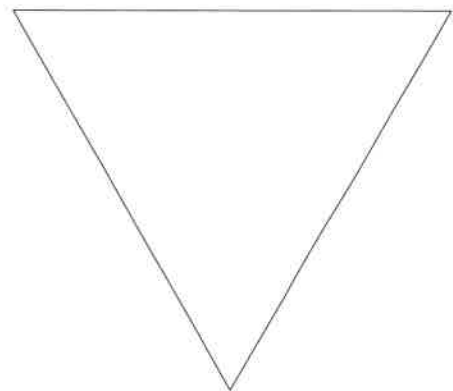
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1. KONSTRUKSIE

30° HOEK 1
VORM VAN SESHOEK 1
VORM VAN DRIEHOEK 1
TOTAAL 3



EHOP ORIENTASIE

ewg

ASSESSERINGSKRITERIA

1	BOAANSIG	10
2	VOORAANSIG	14
TOTAAL		24

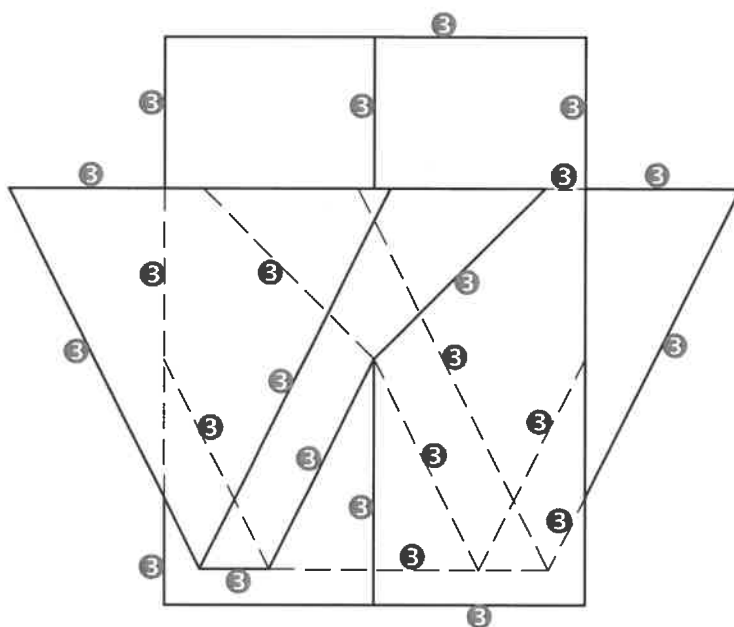
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ASSESSERINGSKRITERIA

3	REGTERAANSIG	12
TOTAAL		12

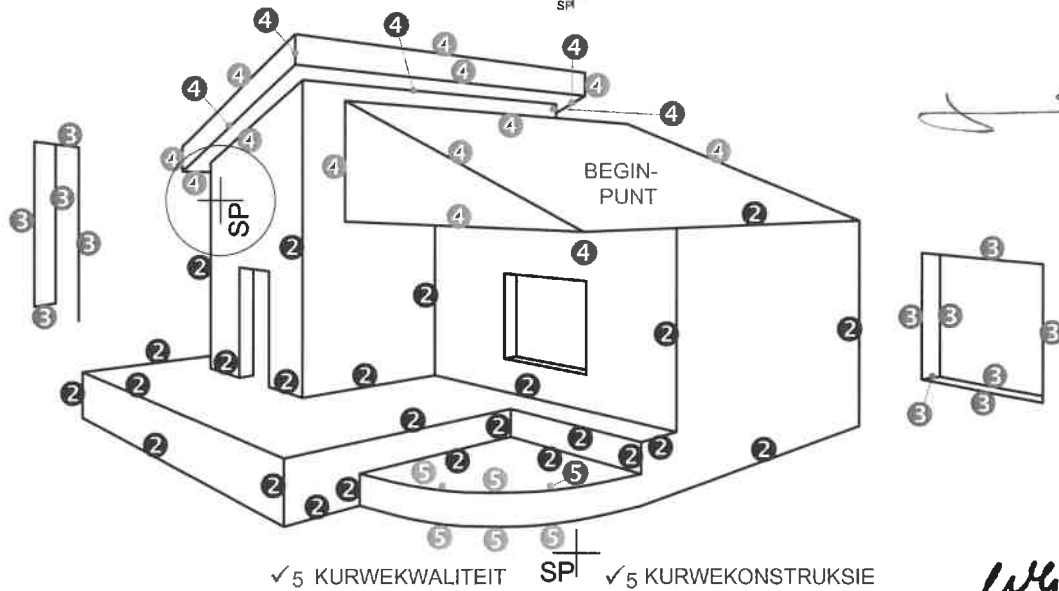
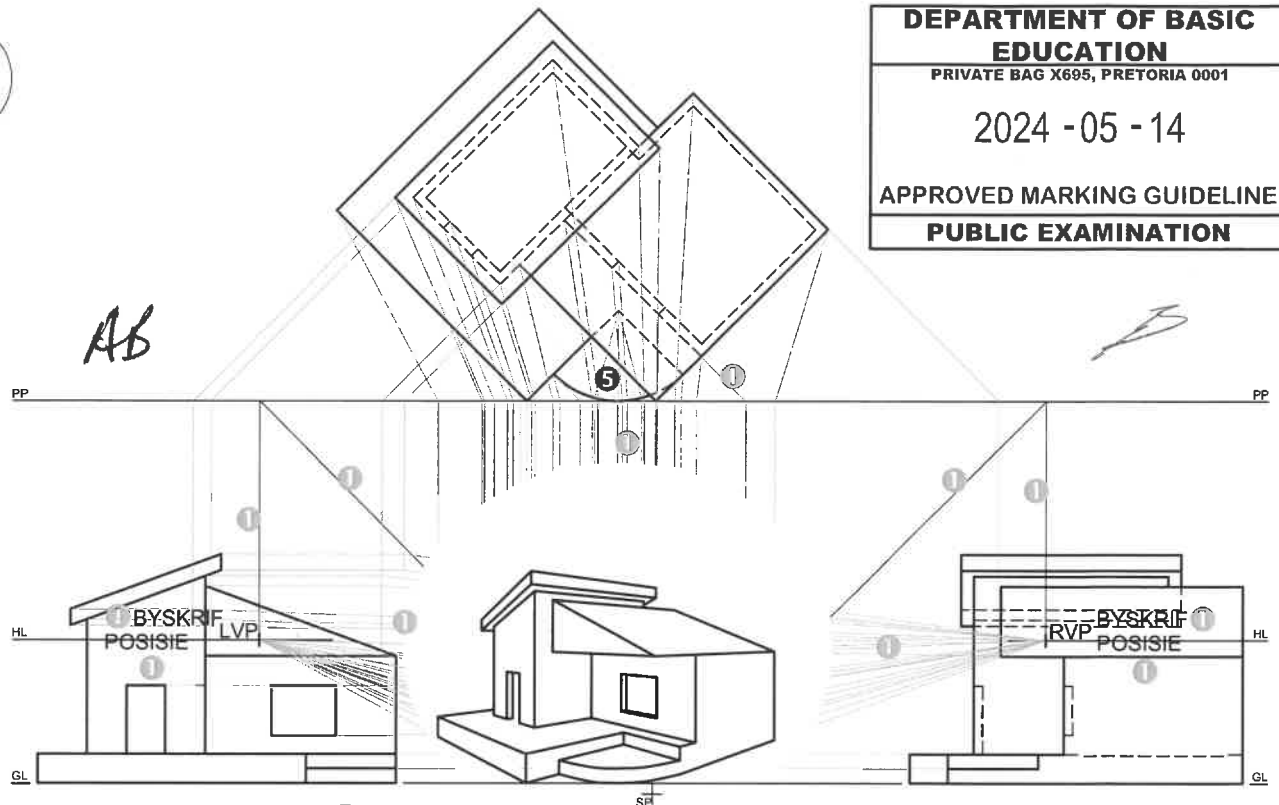
VRAESTEL 1 VRAAG 2
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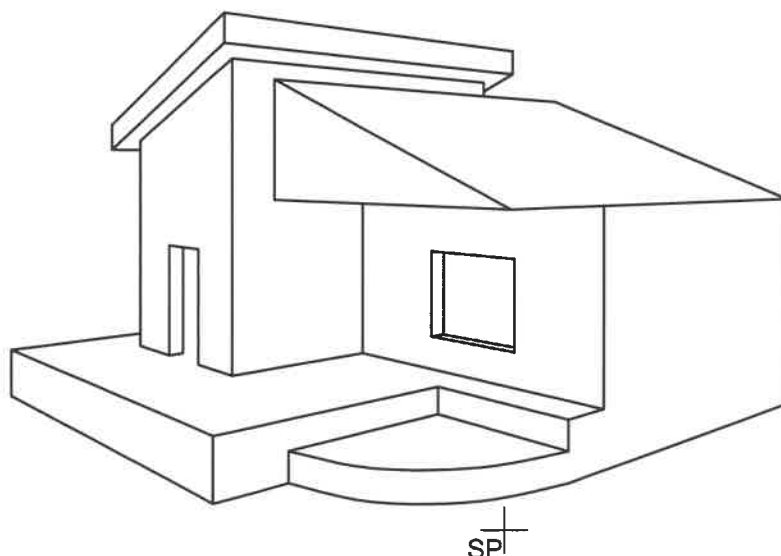
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✓5 KURWEKWALITEIT SP ✓5 KURWEKONSTRUKSIE



ASSESSERINGSKRITERIA

1	KONSTRUKSIE	6
2	MUUR + BASIS + TRAPPE	12 $\frac{1}{2}$
3	VENSTER + DEUR	6
4	DAK	9
5	BOOG	5 $\frac{1}{2}$
TOTAAL		39

VRAESTEL 1 VRAAG 3
GRAAD 12
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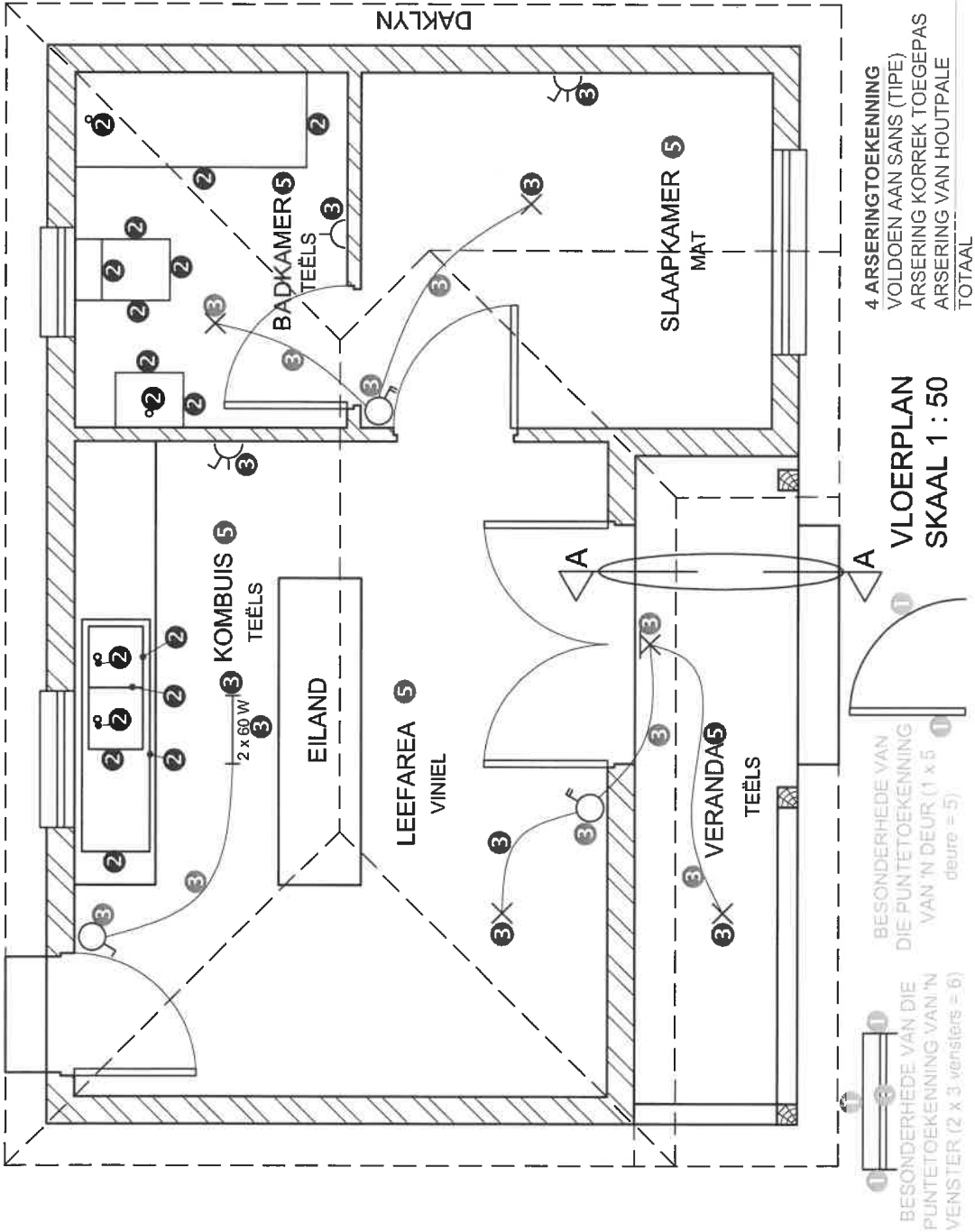
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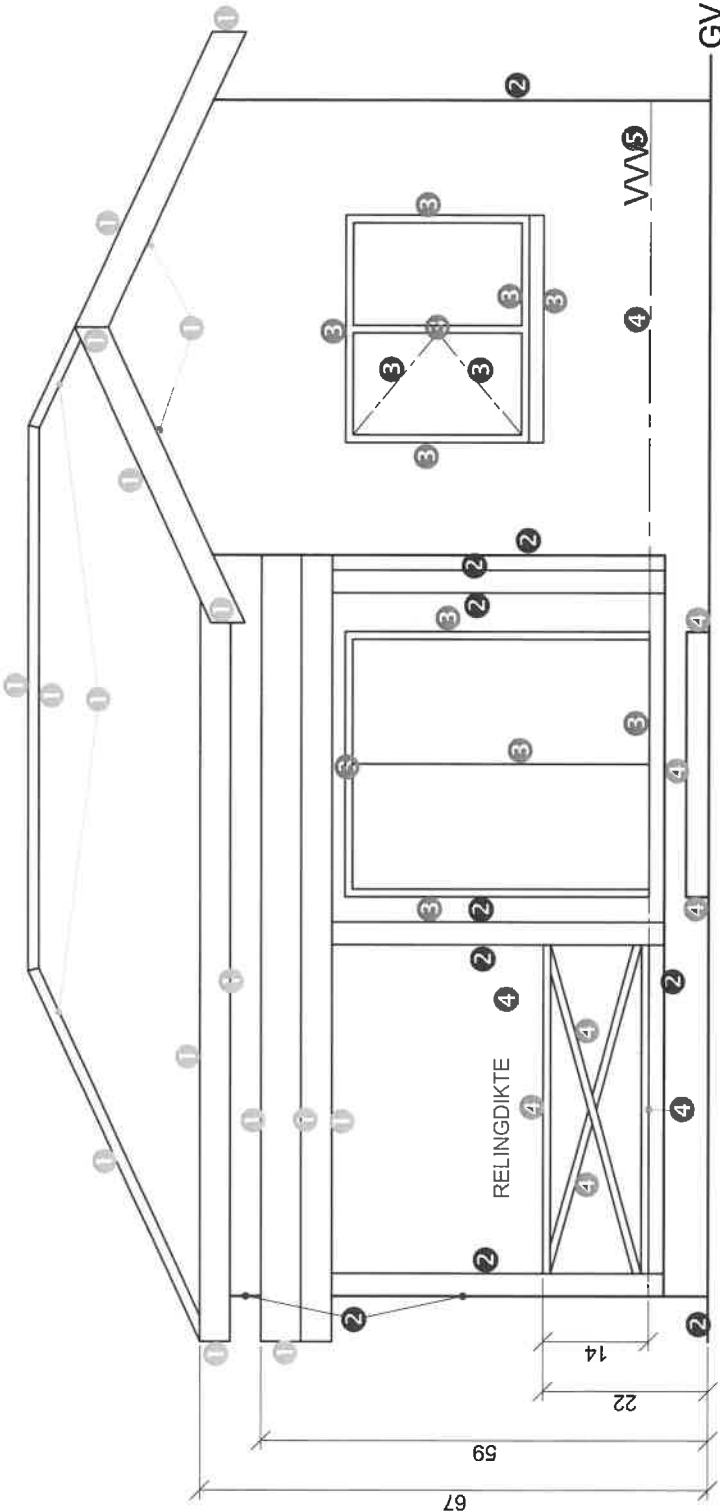
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ASSESSERINGS- KRITERIA	
VLOERPLAN	
1	DEURE + VENSTERS 11
2	TOEBEHORE 8 1/2
3	ELEKTRIES 9 1/2
4	ARSERING 4
5	BYSKRIFTE 2 1/2
SUBTOTAAL 35 1/2	

VRAESTEL 1 VRAAG 4
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ASSESSERINGS- KRITERIA		
WESAANSIG		
1	DAK + AFDAK	8 $\frac{1}{2}$
2	MURE + PALE + VERANDA	5
3	DEURE + VENSTERS	6 $\frac{1}{2}$
4	TRAP + WV + RELING	4 $\frac{1}{2}$
5	BYSKRIFTE	1 $\frac{1}{2}$
SUBTOTAAL		25

VRAESTEL 1 VRAAG 4
GRAAD 12
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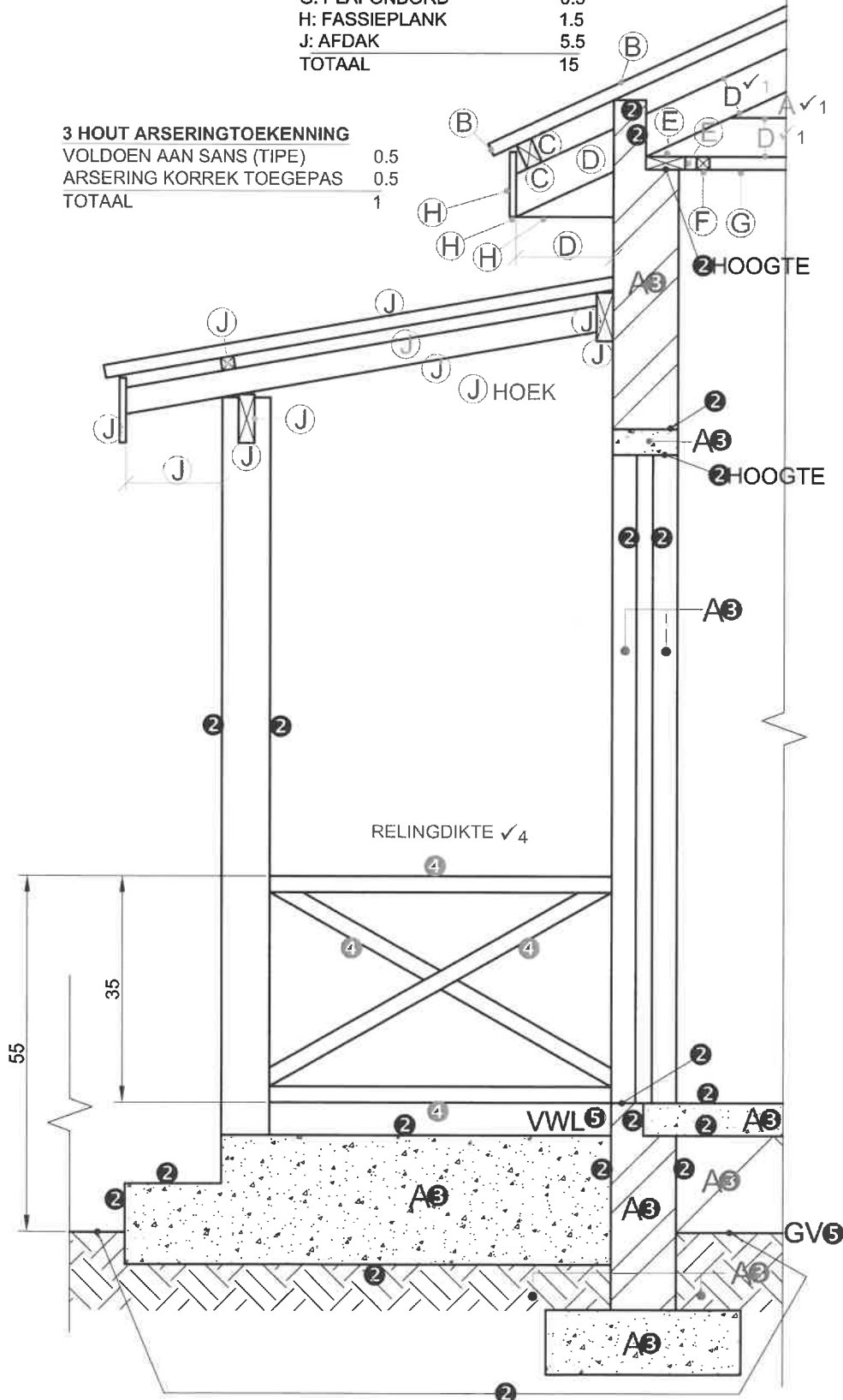
WESAANSIG

1. PUNTETOEKENING VIR DIE DAK

A: DAKHELLING	1
B: DAKPLAAT	1
C: KAPLAT	1
D: DAKKAP + OORHANG	3
E: MUURPLAAT	1
F: PLAFONLATTE	0.5
G: PLAFONBORD	0.5
H: FASSIEPLANK	1.5
J: AFDAK	5.5
TOTAAL	15

3 HOUT ARSERINGTOEKENNING

VOLDOEN AAN SANS (TIEP)	0.5
ARSERING KORREK TOEGEPAS	0.5
TOTAAL	1



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AB



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ASSESSERINGS- KRITERIA		
GEDETAILLEERDE SNIT		
1	DAKBESON- DERHEDE	15
2	BLAD + MUUR + TRAPPE + BALK	10
3	ARSERING	5 $\frac{1}{2}$
4	RELING	3
5	BYSKRIFTE	1
SUBTOTAAL		34 $\frac{1}{2}$

VRAESTEL 1 VRAAG 4
GRAAD 12
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