

SA's Leading Past Year

Exam Paper Portal



You have Downloaded, yet Another Great  
Resource to assist you with your Studies 😊

Thank You for Supporting SA Exam Papers

Your Leading Past Year Exam Paper Resource Portal

Visit us @ [www.saexampapers.co.za](http://www.saexampapers.co.za)



SA EXAM  
PAPERS



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **NASIONALE SENIOR SERTIFIKAAT**

**GRAAD 12**

**INGENIEURSGRAFIKA EN -ONTWERP V1**

**NOVEMBER 2013**

**MEMORANDUM**

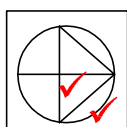
**PUNTE: 100**

**Hierdie memorandum bestaan uit 7 bladsye.**

| ANTWOORDE |                                          |   |
|-----------|------------------------------------------|---|
| 1         | 2                                        | 1 |
| 2         | 2                                        | 1 |
| 3         | 114                                      | 1 |
| 4         | 3,5 m                                    | 1 |
| 5         | MANGAT                                   | 1 |
| 6         | 2,4 m                                    | 1 |
| 7         | AANGRENSENDE GEBOU/STRUKTUUR             | 1 |
| 8         | BUITEGEBOU WAT GESLOOP MOET WORD         | 1 |
| 9         | OPRIT                                    | 1 |
| 10        | GRENSLYNLENGTE                           | 1 |
| 11        | BOULYN                                   | 1 |
| 12        | 7521                                     | 1 |
| 13        | ES7245                                   | 1 |
| 14        | AVOKADO                                  | 1 |
| 15        | MILLIMETER of mm                         | 1 |
| 16        | HOËR                                     | 2 |
| 17        | 3,5 m                                    | 2 |
| 18        | (Sien hieronder.)                        | 4 |
| 19        | (Sien hieronder.)                        | 4 |
| 20        | 52 m [berekening 1, antwoord 1, meter 1] | 3 |

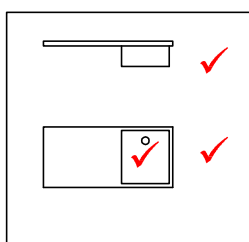
TOTAAL: 30

18

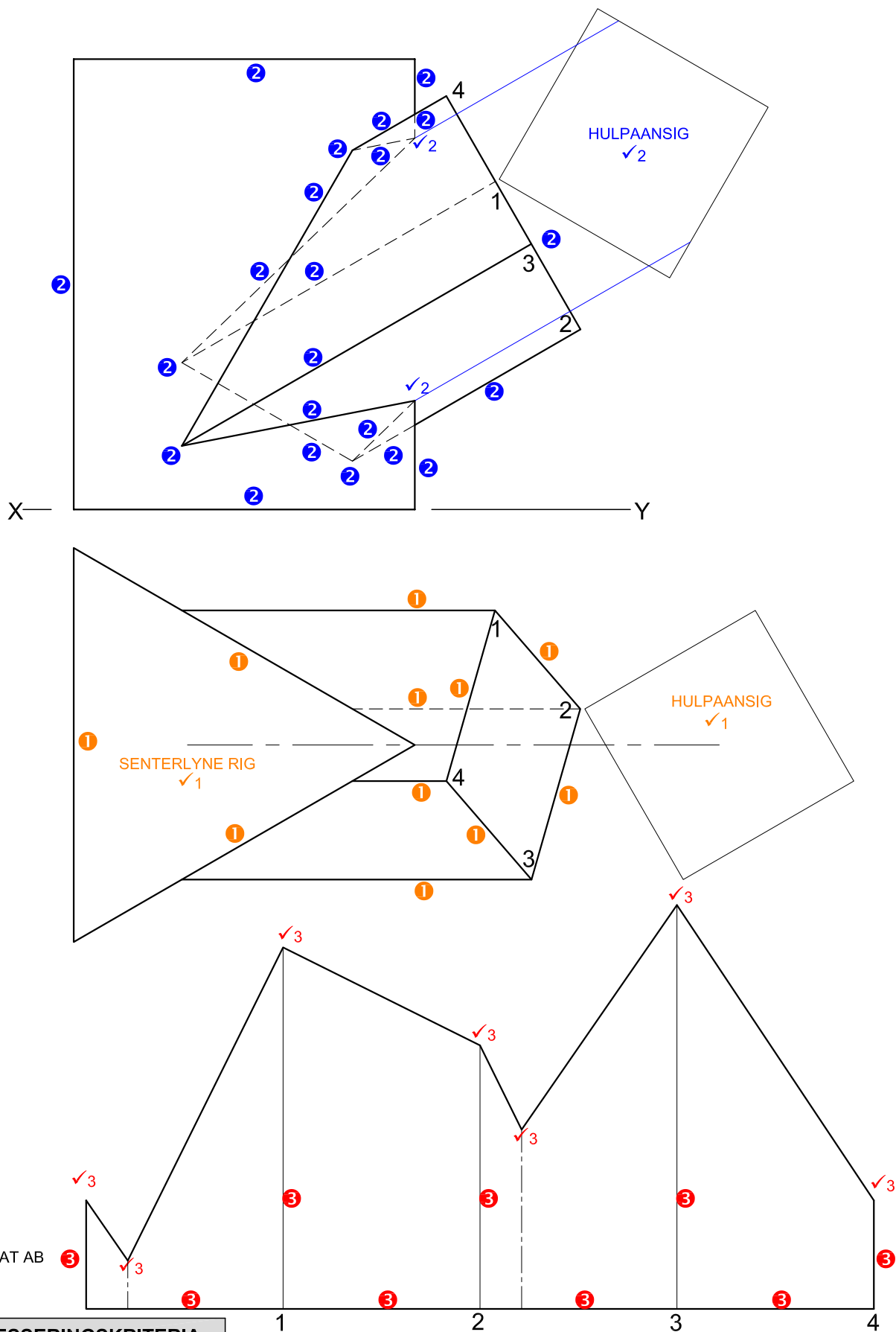
RIGTING  
VRYHAND

19

VRYHAND

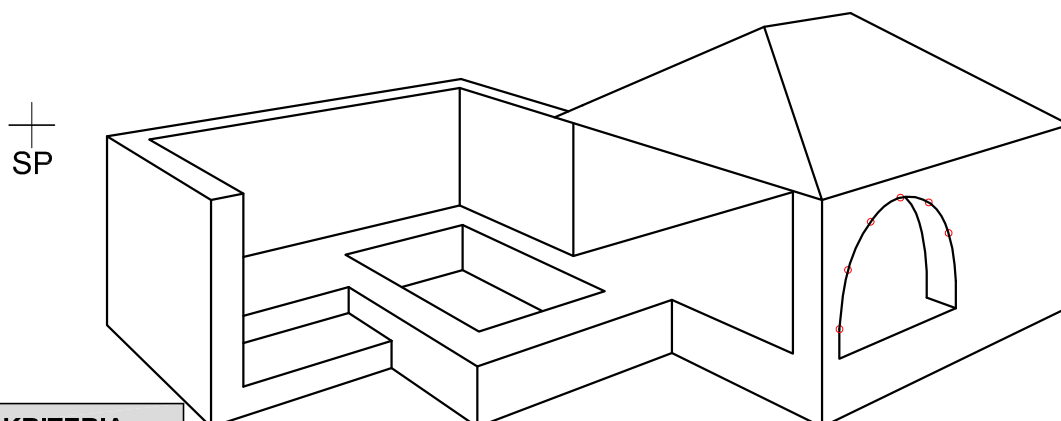
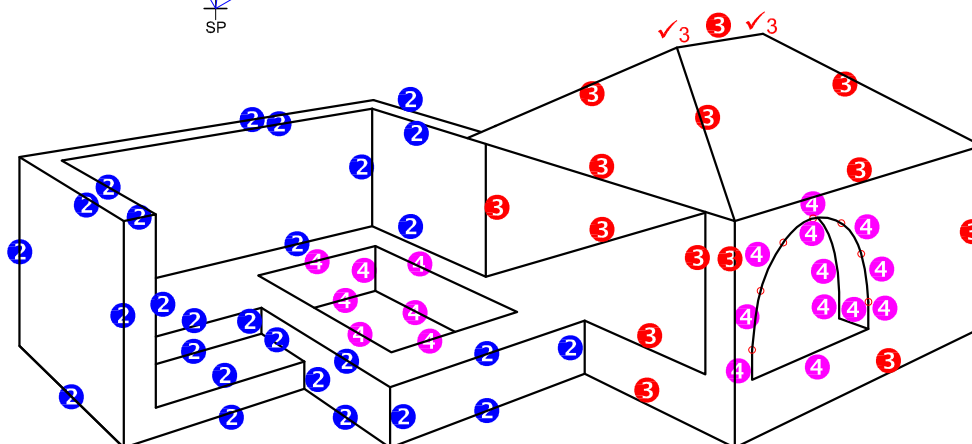
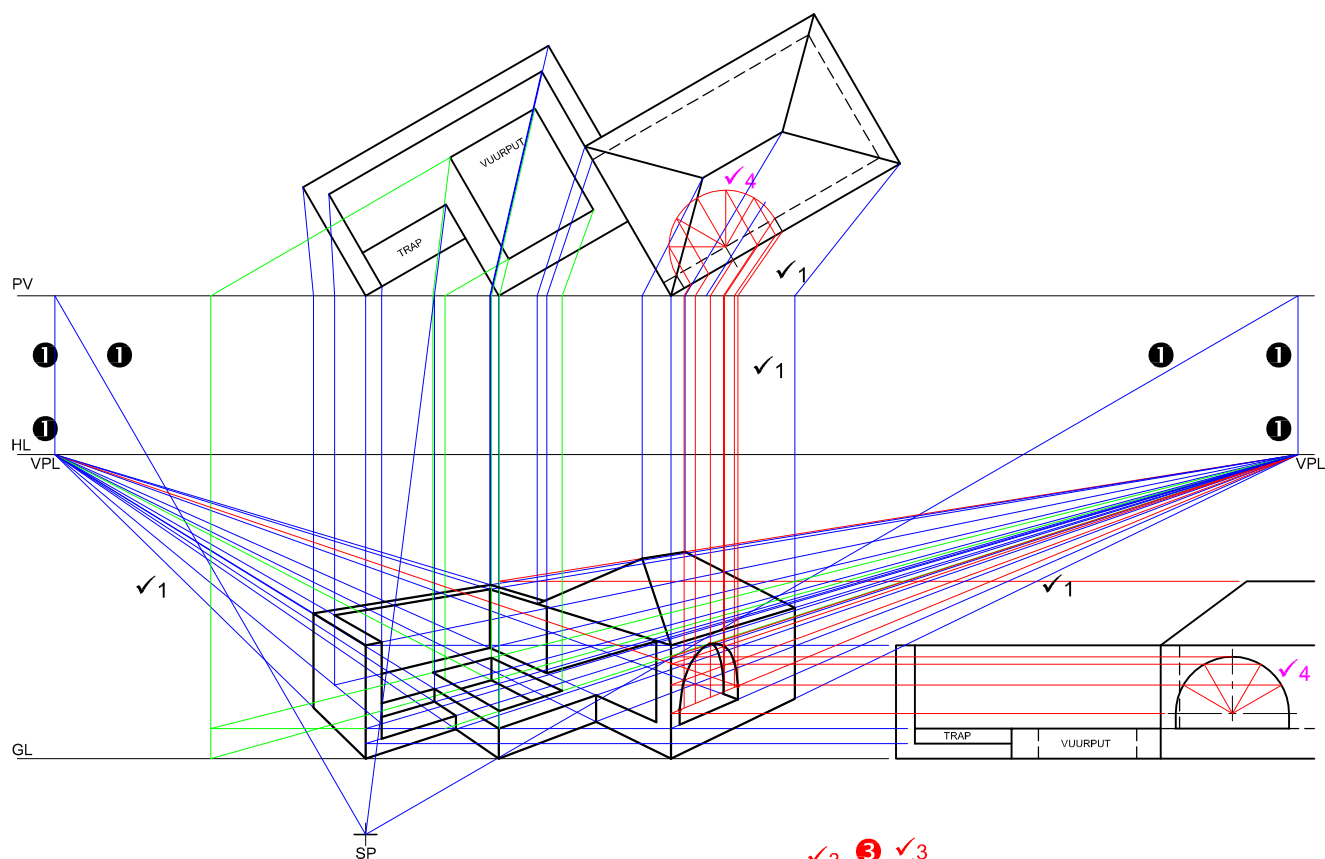


VRAESTEL 1 VRAAG 1  
 GRAAD 12  
 November 2013  
 MEMORANDUM



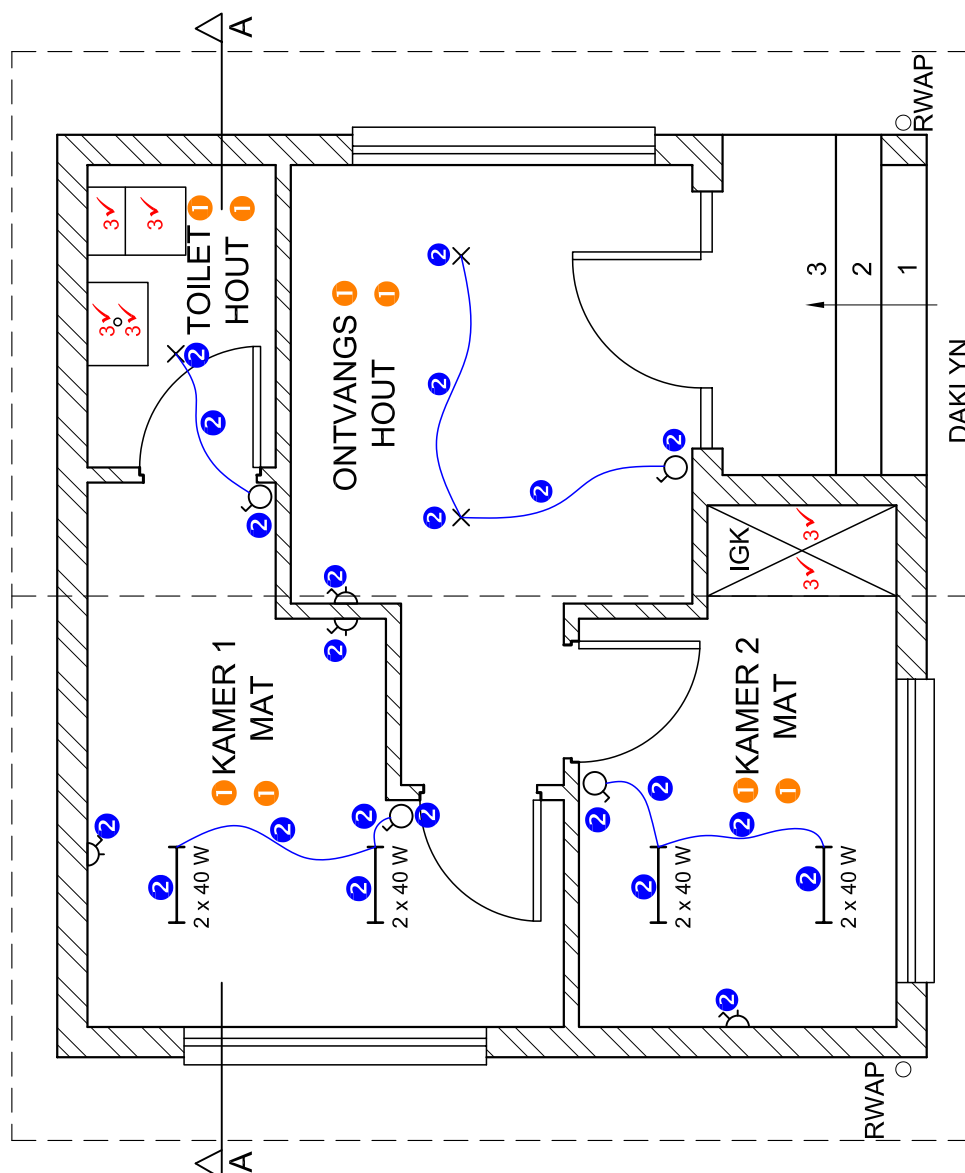
| ASSESSERINGSKRITERIA |              |     |
|----------------------|--------------|-----|
| 1                    | BOAANSIG     | 7½  |
| 2                    | VOORAANSIG   | 14  |
| 3                    | ONTWIKKELING | 11½ |
| TOTAAL               |              | 33  |

VRAESTEL 1 VRAAG 2  
 GRAAD 12  
 November 2013  
 MEMORANDUM



| ASSESSERINGSKRITERIA |                      |     |
|----------------------|----------------------|-----|
| 1                    | KONSTRUKSIE + VP'e   | 7   |
| 2                    | MURE                 | 13½ |
| 3                    | GEBOU + DAK          | 9   |
| 4                    | BOOG + KONSTR' + PUT | 11½ |
| TOTAAL               |                      | 41  |

VRAESTEL 1 VRAAG 3  
GRAAD 12  
November 2013  
MEMORANDUM



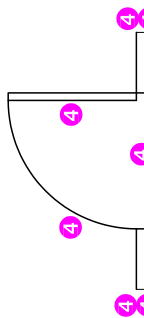
VLOERPLAN  
SKAAL 1 : 50

VRAESTEL 1 VRAAG 4  
GRAAD 12  
November 2013  
MEMORANDUM

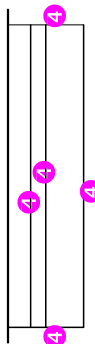
Kopiereg voorbehou

Blaai om asseblief

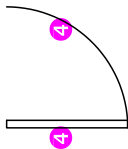
**BESONDERHEDE VAN PUNTTOEKENNING  
VIR DIE VOORDEUR (3½)**



BESONDERHEDE VAN PUNTTOEKENING VIR  
'N VENSTER ( $2\frac{1}{2} \times 3$  vensters =  $7\frac{1}{2}$ )



**BESONDERHEDE VAN PUNTTOEKENNING**  
**VIR 'N DEUR (1 x 3 deure = 3)**

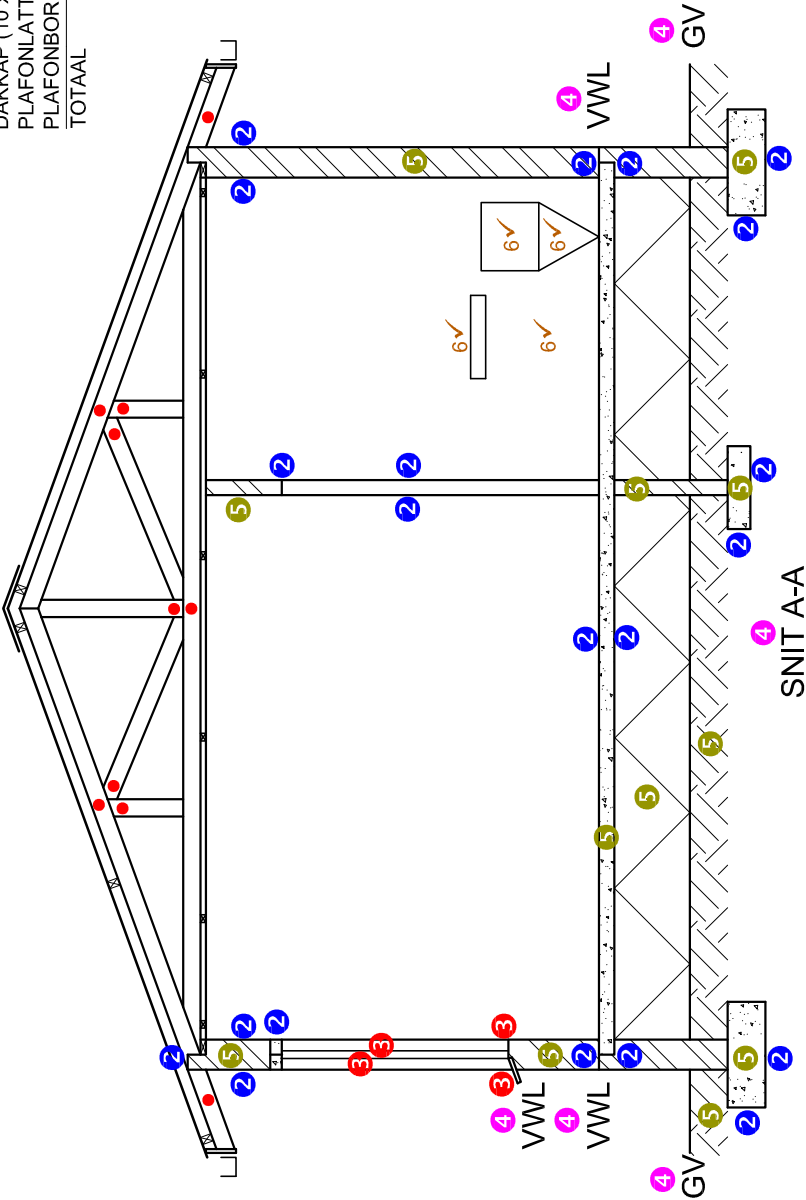


|                            |  |
|----------------------------|--|
| 5 ARSERINGPUNTETOEKENNING  |  |
| 1 VOLGENS SANS (TIPE)      |  |
| 2 ARSERING KORREK TOEGEPAS |  |
| 3 TOTAAL                   |  |

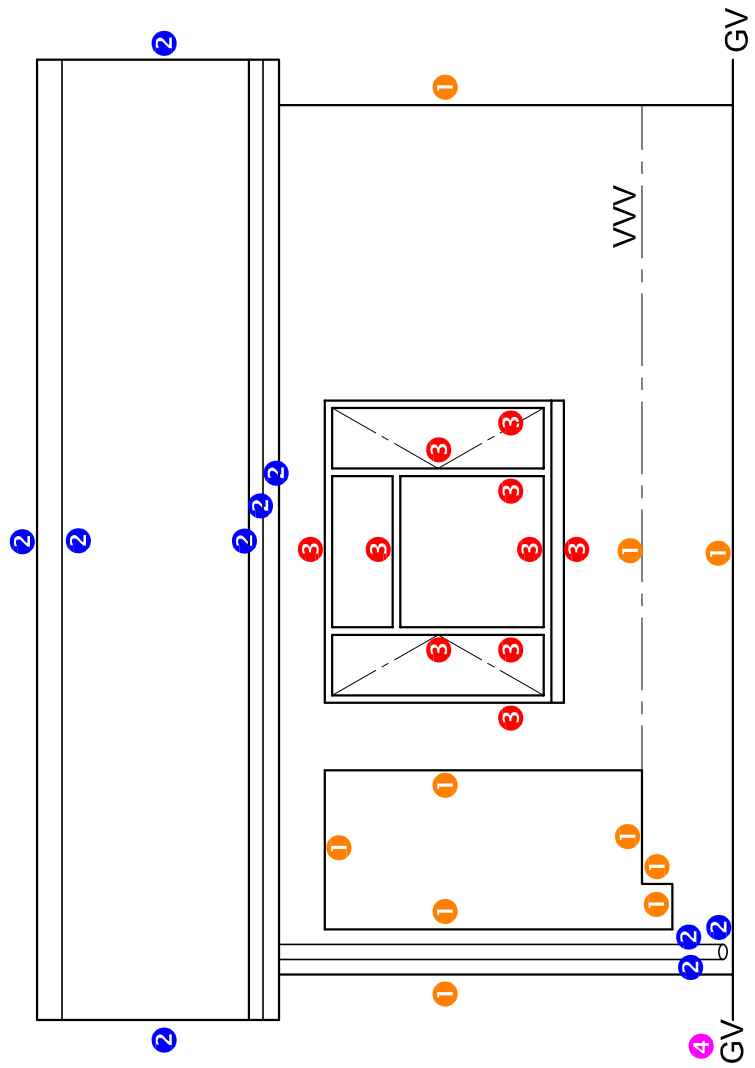
| ASSESSERINGSKRITERIA |                  | VLOERPLAN |    |
|----------------------|------------------|-----------|----|
| 1                    | BYSKRIFTE        |           | 4  |
| 2                    | ELEKTRIES        |           | 11 |
| 3                    | TOEBEHORE        |           | 6  |
| 4                    | DEURE + VENSTERS |           | 14 |
| 5                    | ARSERING         |           | 3  |
| SUBTOTAAL            |                  |           | 38 |

1 DAK PUNTETOEKENNING

|                    |    |
|--------------------|----|
| KORREKTE HELLING   | 1  |
| DAKPLAAT           | 2  |
| DAKNOK             | 1  |
| KAPLATTE           | 2  |
| FASSIEBORD (2 x ½) | 1  |
| GEUT (2 x ½)       | 1  |
| MUURPLAAT (2 x ½)  | 1  |
| DAKKAP (10 x ½)    | 5  |
| PLAFONLATTE        | 1  |
| PLAFONBORD         | 1  |
| TOTAAL             | 16 |



| ASSESSERINGSKRITERIA |                          |    |
|----------------------|--------------------------|----|
| DEURSNEEAANSIG       |                          |    |
| 1                    | DAK                      | 16 |
| 2                    | MURE + VLOER + FONDASIES | 11 |
| 3                    | VENSTER                  | 2  |
| 4                    | BYSKRIFTE                | 3  |
| 5                    | ARSERING                 | 6  |
|                      | TOEBEHORE                | 4  |
| SUBTOTAAL            |                          | 42 |



NOORDOOS-AANSIG

| ASSESSERINGSKRITERIA |                   |  |    |  |
|----------------------|-------------------|--|----|--|
| NOORDOOS-AANSIG      |                   |  |    |  |
| 1                    | MURE + VW         |  | 5  |  |
| 2                    | DAK + GEUT + RWAP |  | 5  |  |
| 3                    | VENSTER           |  | 5  |  |
| 4                    | BYSKRIFTE         |  | 1  |  |
| SUBTOTAAL            |                   |  | 16 |  |