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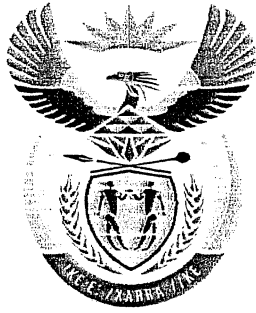
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**SA EXAM
PAPERS**



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

NOVEMBER 2011

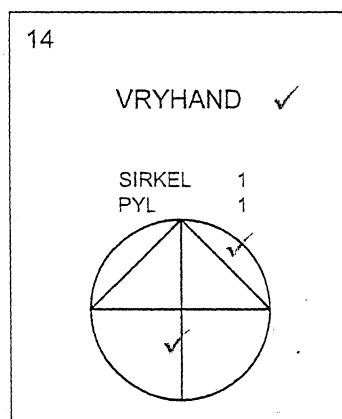
MOONTLIKE ANTWOORDE

PUNTE: 100

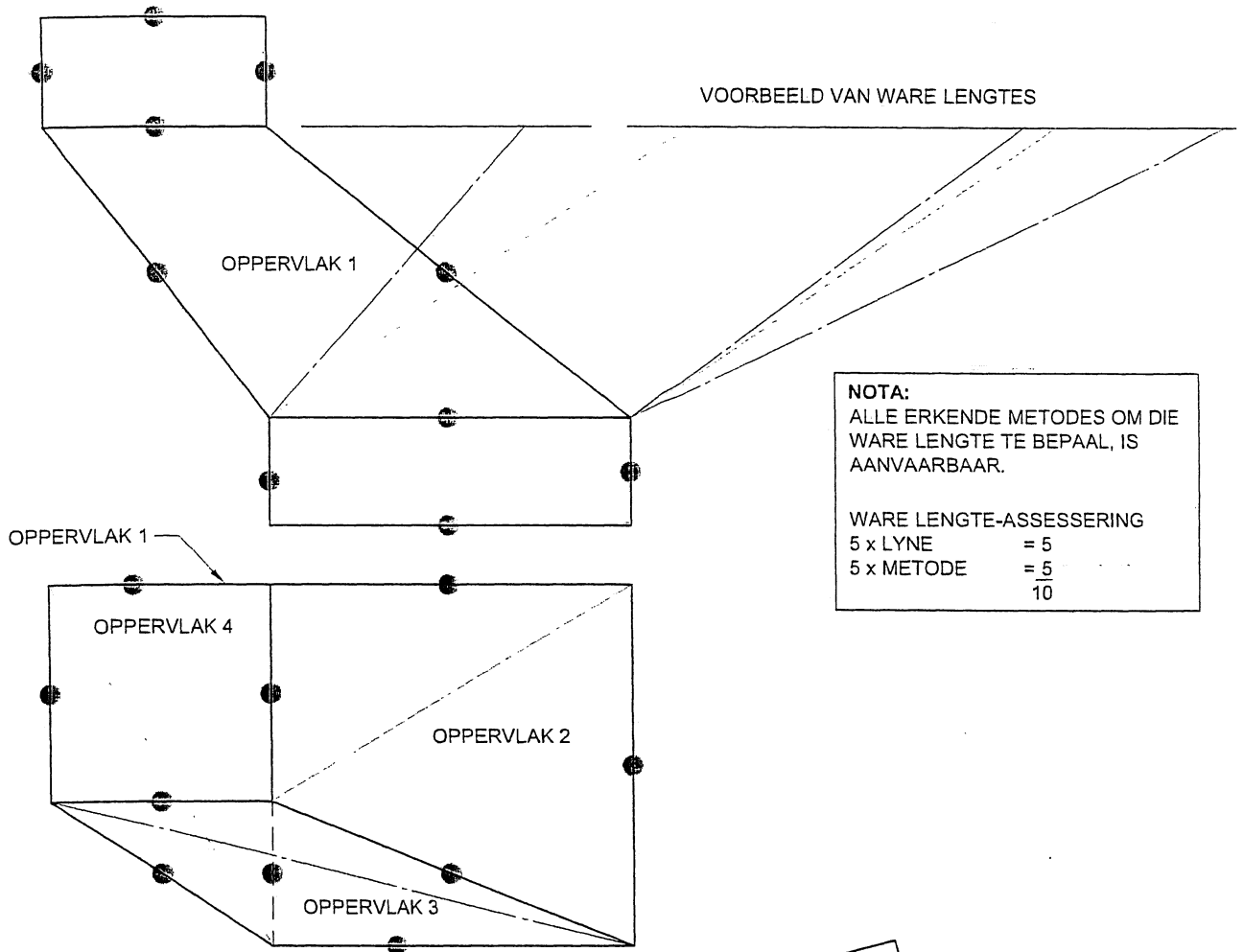
Hierdie memorandum bestaan uit 5 bladsye.

ANTWOORDE		
1	7	1
	2	1
	10	1
	4	1
	9	1
	3	1
	1	1
	6	1
	8	1
	5	1
2	2/08	1
3	ROCKYSTRAAT	1
4	RIOOLPYP	1
5	PAD/STRAAT	1
6	EENHEID/GEBOU/SPREEKKAMER 9	1
7	PLAVEISTENE/WANDELPAD	1
8	BOULYN	1
9	4	1
10	10	1
11	A (1558,2)	2
12	456,6 m [berekening 1, antwoord 1, meter 1]	3
13	12916,8 m ² [berekening 1, antwoord 1, meter ² 1]	3
14		3

TOTAAL: 30



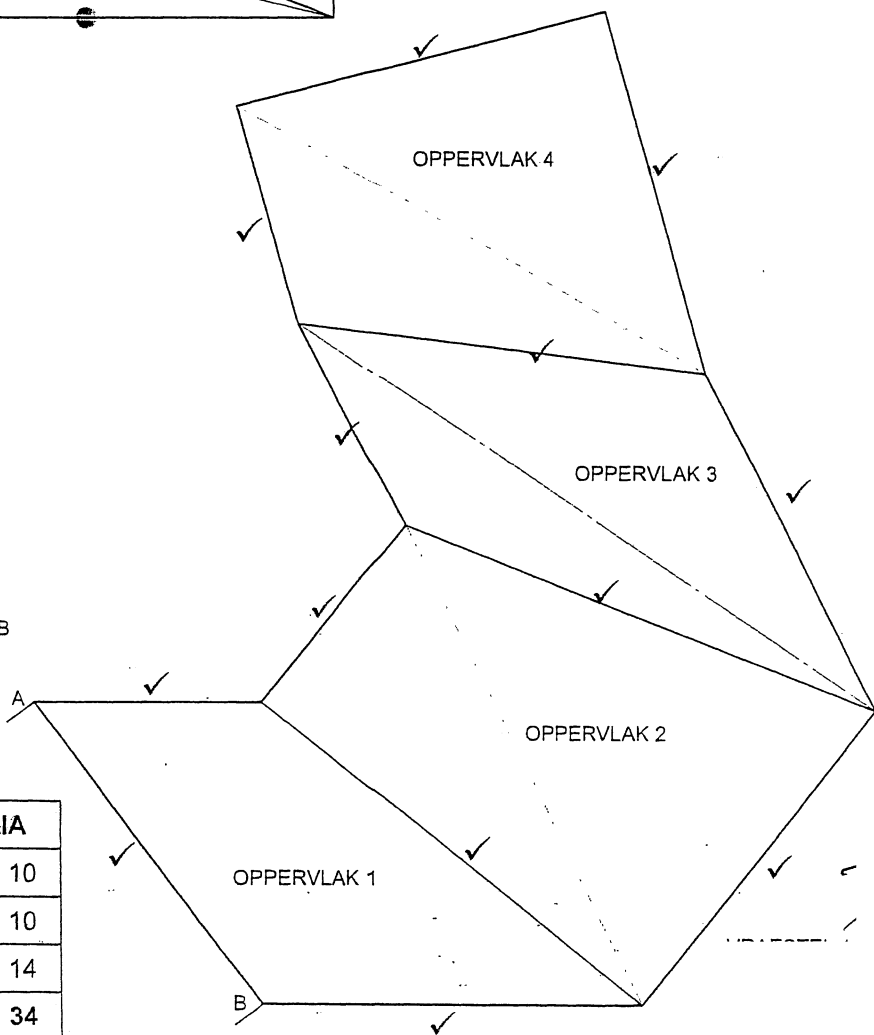
VOORBEELD VAN WARE LENGTES



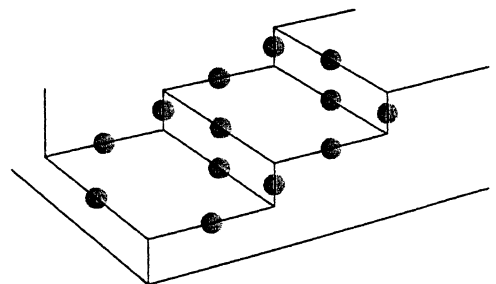
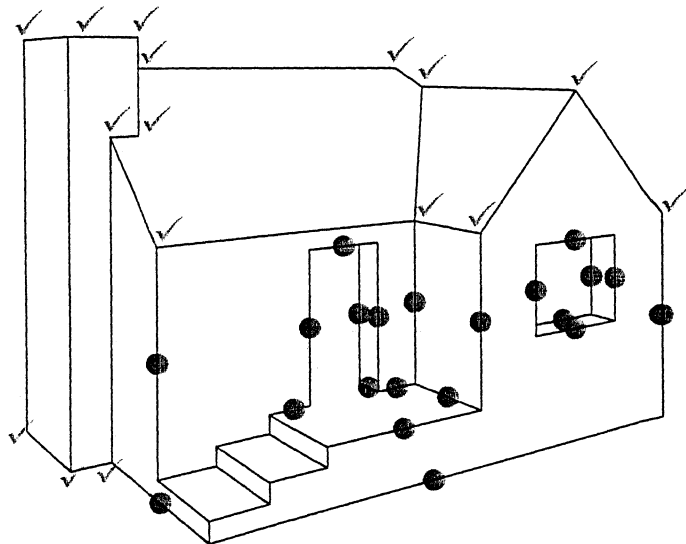
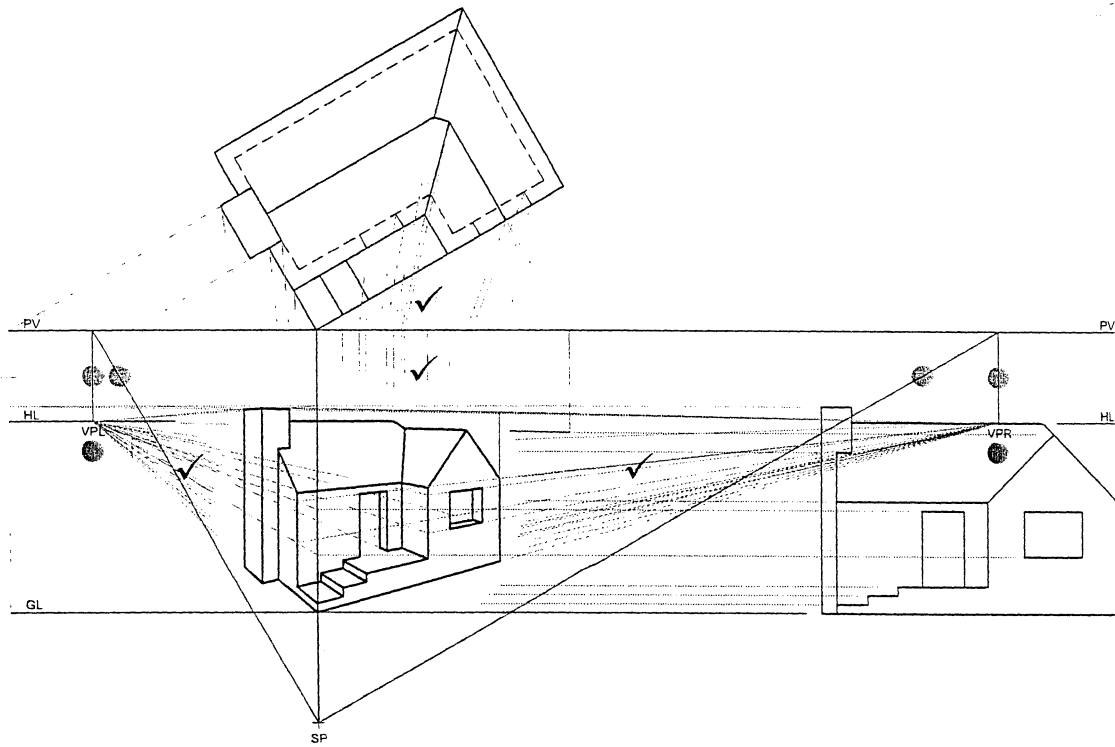
NOTA:
 ALLE ERKENDE METODES OM DIE WARE LENGTE TE BEPAAL, IS AANVAARBAAR.

WARE LENGTE-ASSESSERING
 5 x LYNE = 5
 5 x METODE = 5
 10

BEGIN MET AB

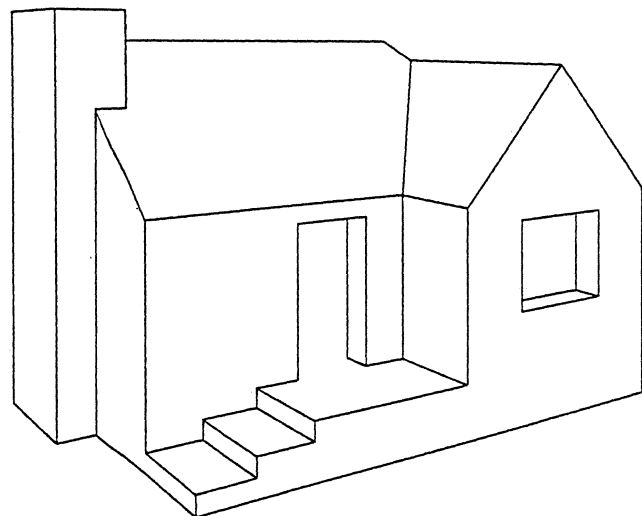


ASSESSERINGSKRITERIA	
VOORAANSIG + BOAANSIG	10
WARE LENGTE + METODE	10
ONTWIKKELING	14
TOTAAL	34

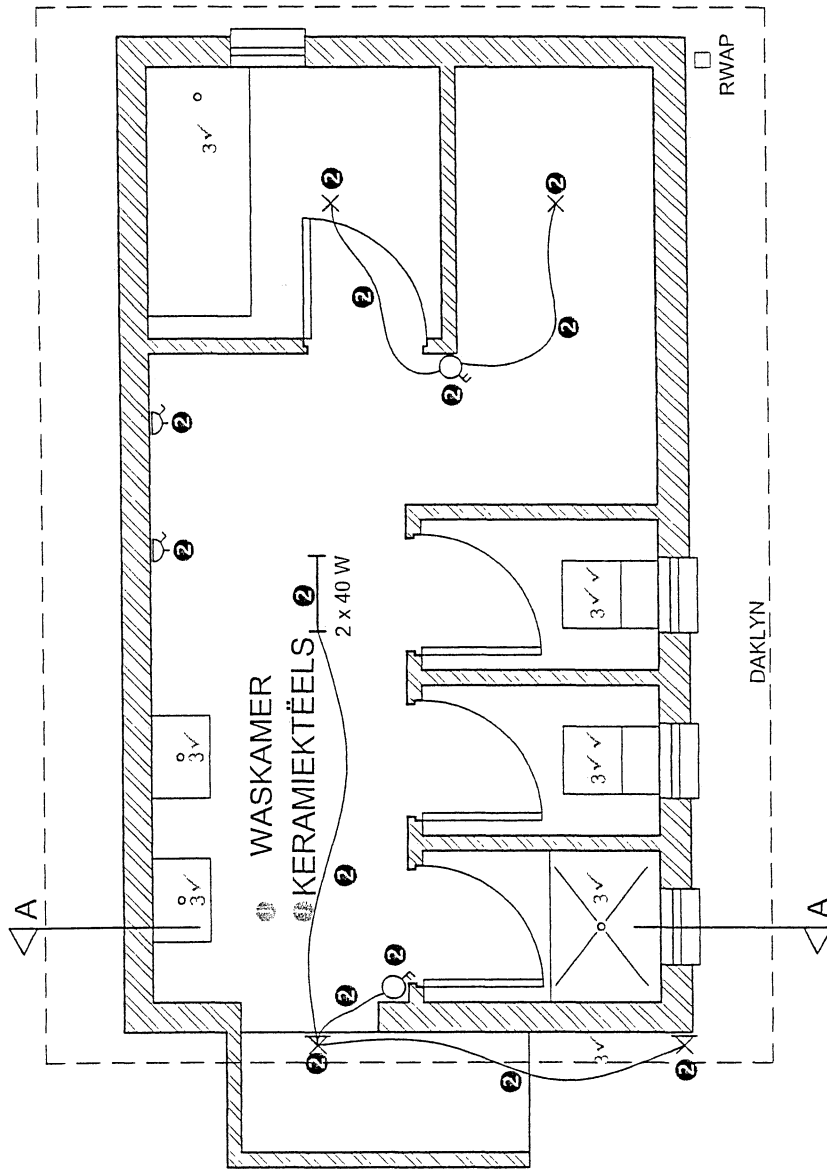


✓ DETAIL VAN PUNTTOEKENNING VIR TRAPPE (7)

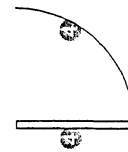
SP



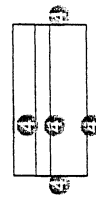
ASSESSERINGSKRITERIA	
KONSTRUKSIES + VP'e	7
GEBOU	18
DAK + SKOORSTEEN	16
TOTAAL	41



PLAN
SKAAL 1 : 50

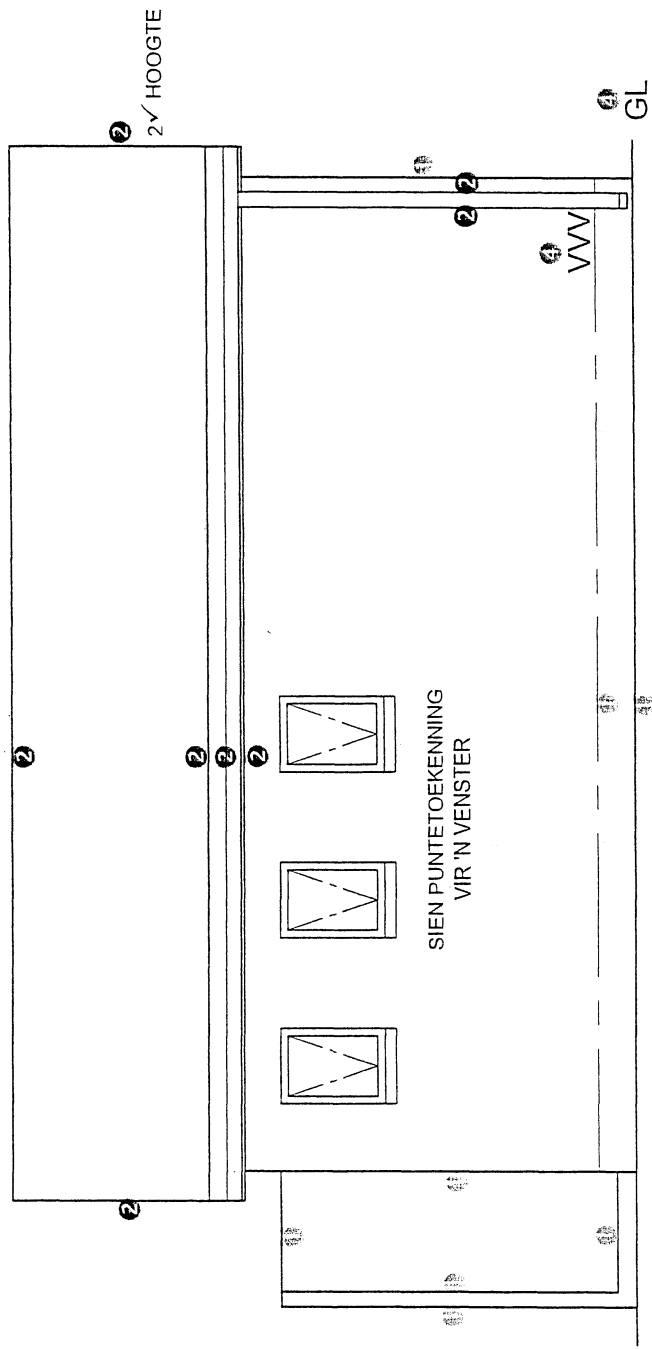


DETAIL VAN PUNTTOEKENNING
VIR 'N DEUR (1 x 4 deure = 4)



DETAIL VAN PUNTTOEKENNING VIR
'N VENSTER (2 1/2 x 4 vensters = 10)

VLOERPLAN		
1	BYSKRIFTE	2
2	ELEKTRIES	7
3	TOEBEHORE	8
4	DEURE + VENSTERS	14
SUBTOTAAL		31



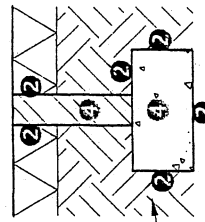
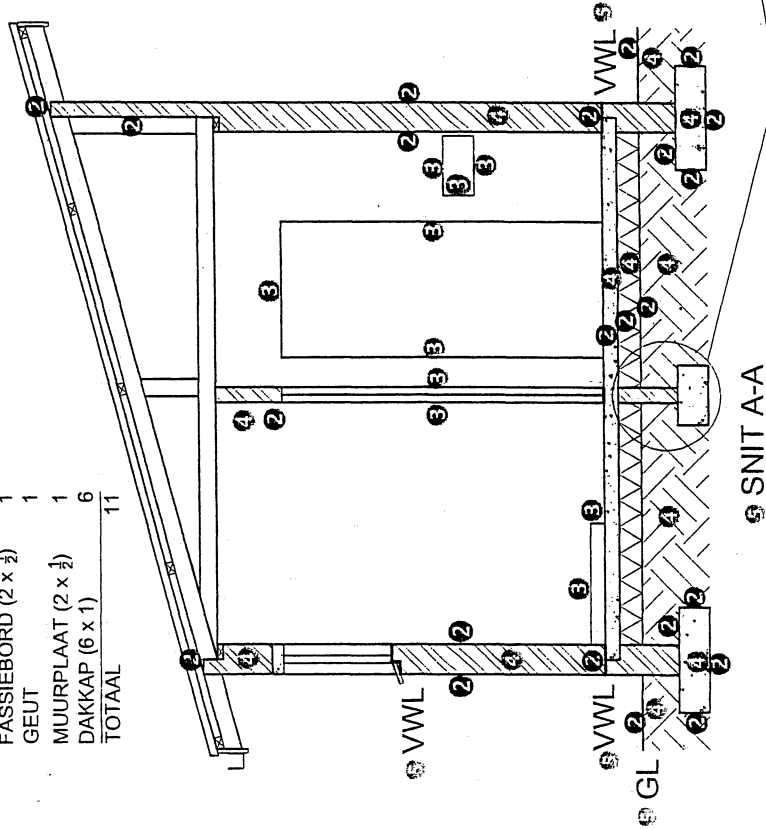
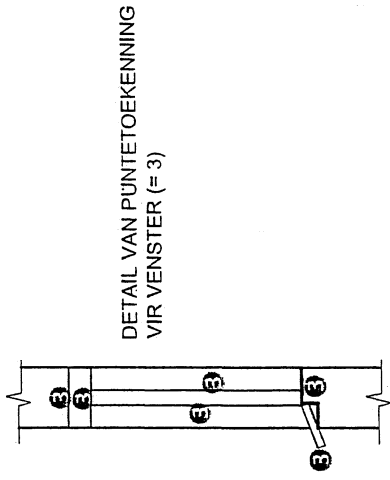
DETAIL VAN PUNTETOEKENNING VIR 'N VENSTER
(3½ per venster x 3 vensters = 10½)

NOORDAANSIG

NOORDAANSIG	
1	MURE + VWV 4
2	DAK + FASSIE + GEUT + RWAP 5
3	VENSTERS 10½
4	BYSKRIFTE 1½
SUBTOTAAL 21	

PUNTETOEKENNING

DAKPLAAT	1
DAKLATTE	1
FASSIEBORD (2 x ½)	1
GEUT	1
MUURPLAAT (2 x ½)	1
DAKKAP (6 x 1)	6
TOTAAL	11



DEURSNEEVAANSIG		
1	DAK	11
2	MURE + VLOER + FONDASIE	14½
3	VENSTER + DEURE + TOEBEHORE	8
4	ARSERING	7
5	BYSKRIFTE	2½
SUBTOTAAL		43