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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

NOVEMBER 2014

MEMORANDUM

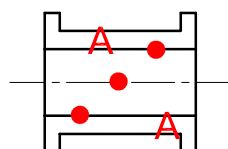
PUNTE: 100

Hierdie memorandum bestaan uit 8 bladsye.

ANTWOORDE			
1	2013-11-04	1	
2	K CIZAKI	1	
3	01-NOV-13	1	
4	P. MOOLMAN	1	
5	Ø46	1	
6	NORMALISERING	1	
7	FREESWERK	1	
8	± 0,3	1	
9		3	
10	OLIEGAT	1	
11	GEWENTELDE SNIT	1	
12	C 150° D 207 E 32	3	
13	0.8 x M12 = 9,6	2	
14	TAP/TAPBOUT	1	
15	AFMETINGSLYN IS VERLENG/HOU AAN TOT EN MET DIE TOTALE LENGTE VAN 150 mm	1	
16	SIMMETRIE	1	
17	7	1	
18	OM TE VERHOED DAT DIE LAERHELFTES UITSKUIF	2	
19	SPY	2	
20		4	
TOTAAL		30	

ANTWOORD 9

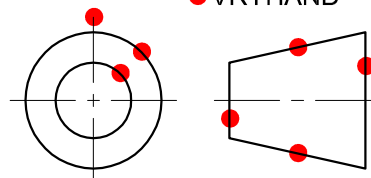
● VRYHAND



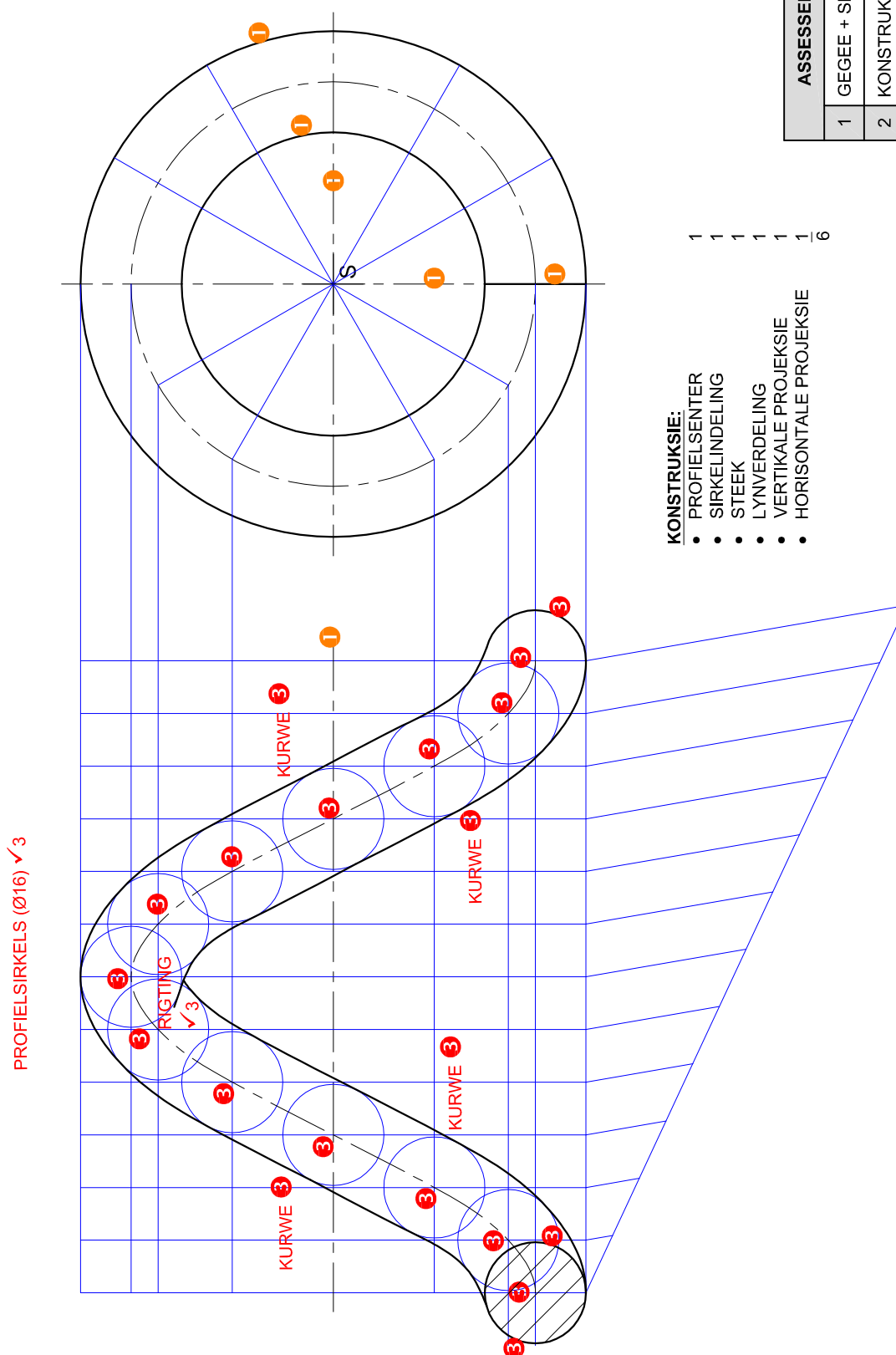
LET WEL: GEEN
PUNT WORD
TOEGEKEN
INDIEN
GEARSEER

ANTWOORD 20

● VRYHAND



SIMBOOL



KONSTRUKSIE:

- PROFIESENTER
- SIRKELINDELING
- STEEK
- LYNVERDELING
- VERTIKALE PROJEKSIE
- HORIZONTAL PROJEKSIE

1 1 1 1 1 1 | 6

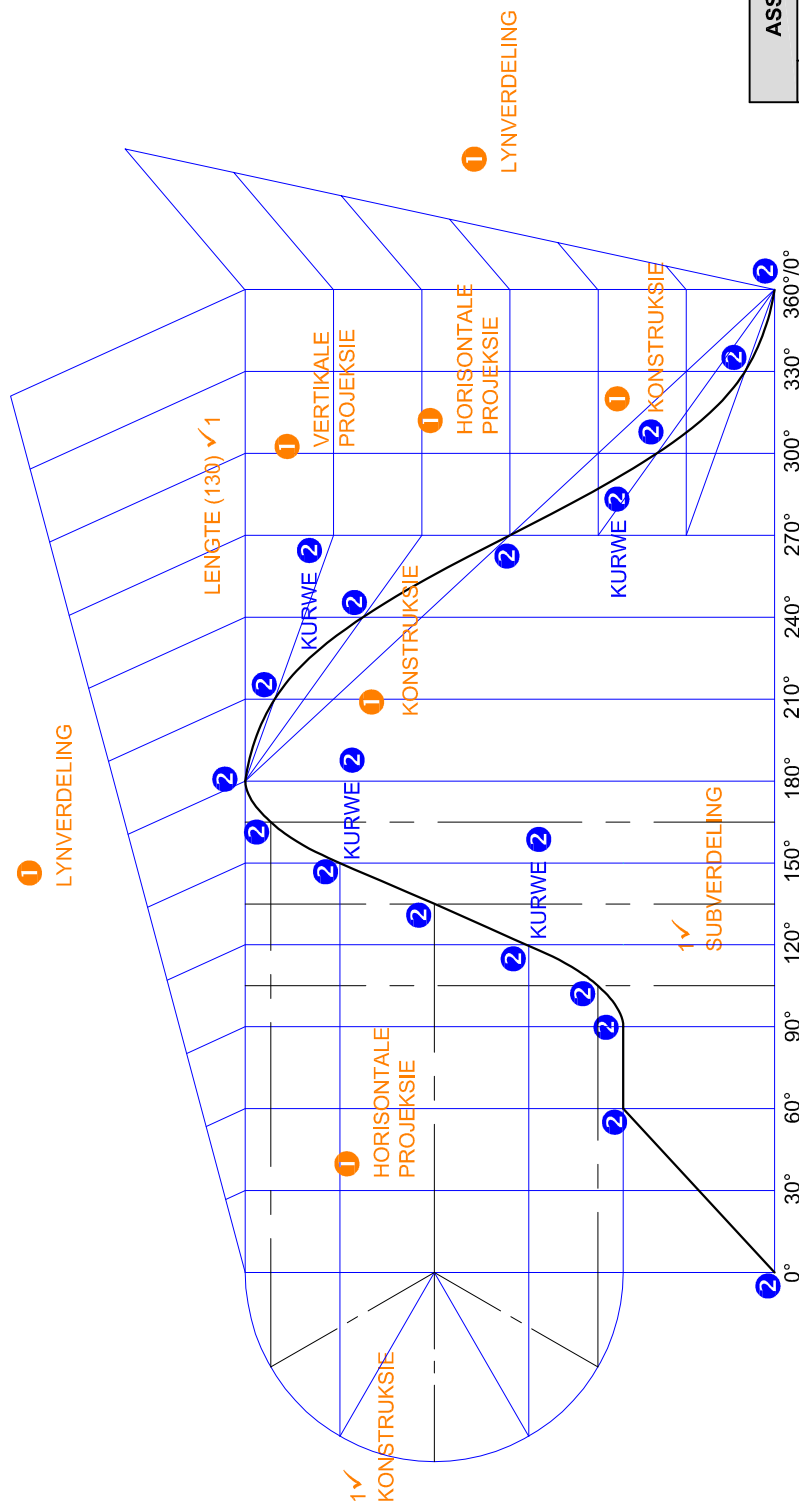
ASSESSERINGSKRITERIA	
1	GEGEE + SENTERLYNE 3
2	KONSTRUKSIE 6
3	PUNTE + KURWES 12
PENALISERING (-)	
SUBTOTAAL 2.1 21	

VRAESTEL 2 VRAAG 2.1

STIELZ VRA
GRAAD 12

DBE/November 2014

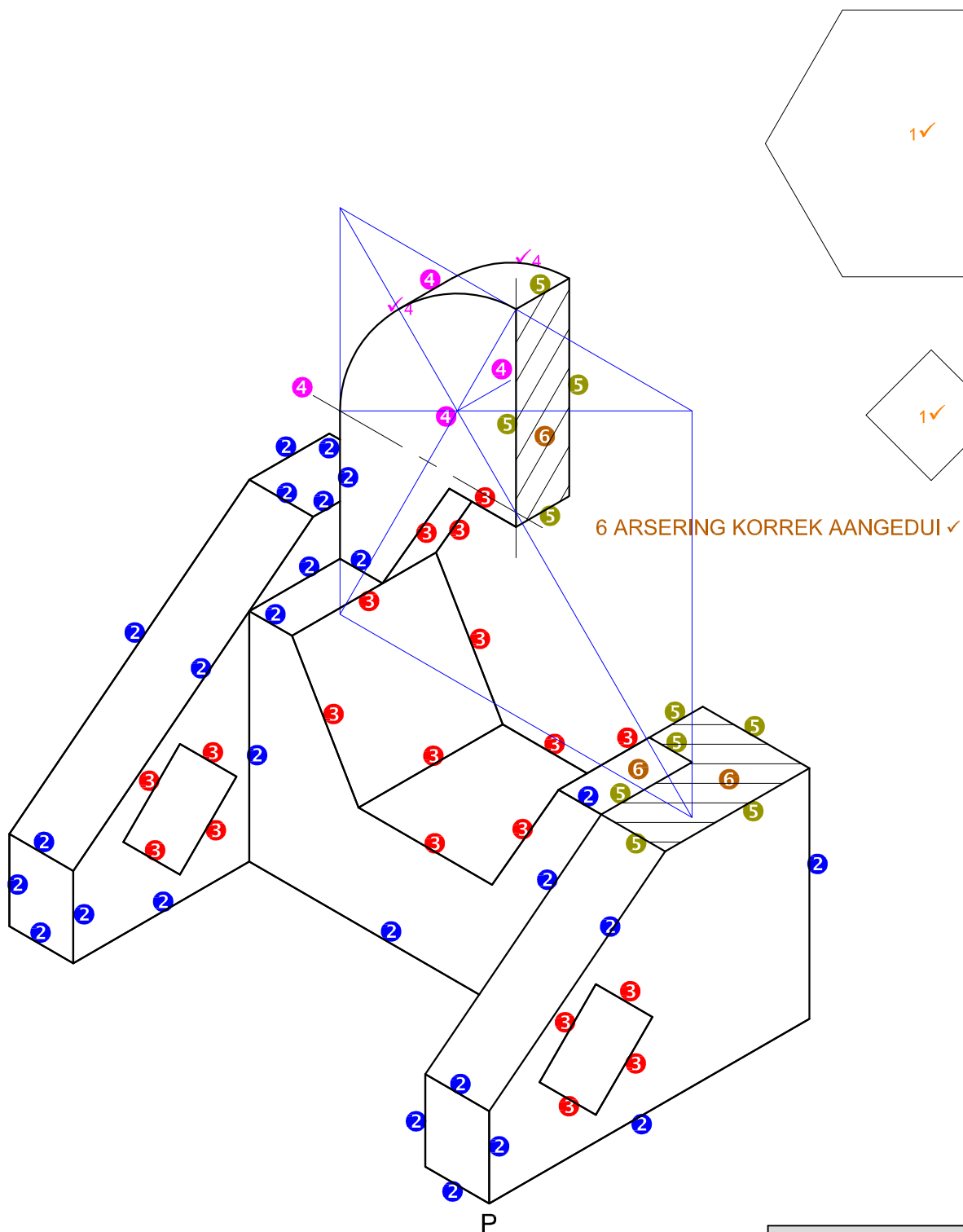
MEMORANDUM



VERPLASINGSGRAFIEK 3
SKAAL: 360° = 130 mm 3

ASSESSERINGSKRITERIA	
1	KONSTRUKSIE 6 $\frac{1}{2}$
2	PUNTE + KURWES 9 $\frac{1}{2}$
3	BYSKRIFTE 1
PENALISERING (-)	
2.2 SUBTOTAAL 17	
2.1 SUBTOTAAL 21	
TOTAAL 38	

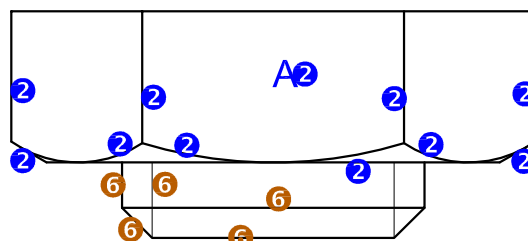
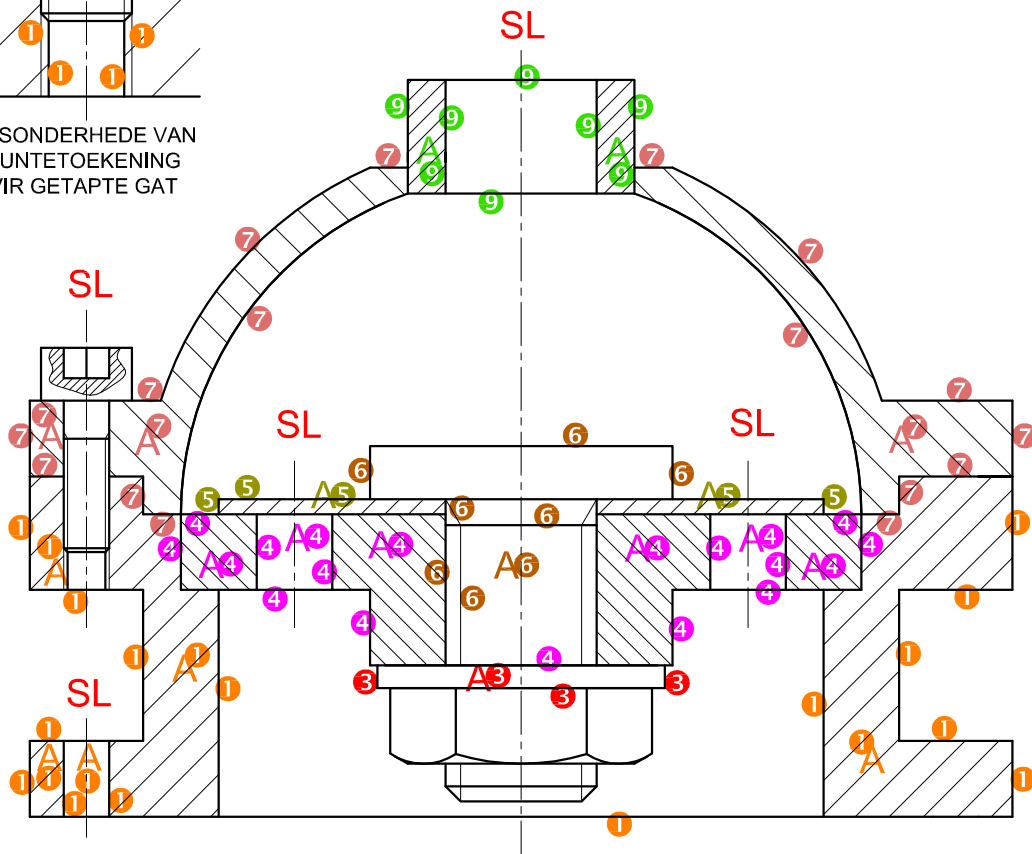
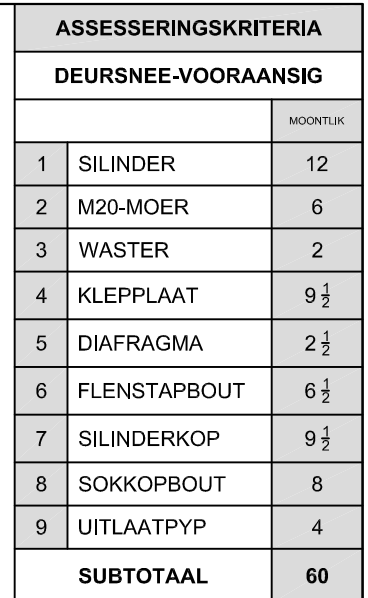
VRAESTEL 2 VRAAG 2.2
 GRAAD 12
 DBE/November 2014
 MEMORANDUM



KORREKTE PLASING OP PUNT P ✓

VRAESTEL 2 VRAAG 3
GRAAD 12
November 2014
MEMORANDUM

ASSESSERINGSKRITERIA		
1	HULPAANSIG + PLASING	3
2	ISOMETRIES + NIE-ISO	13
3	SESHOEK + VIERKANTE	9 $\frac{1}{2}$
4	SIRKELS + KONSTR.	4
5	SNIT	5
6	ARSERING	2 $\frac{1}{2}$
PENALISERING (-)		
TOTAAL		37



BESONDERHEDE VAN PUNTETOEKENING VIR MOER EN BOUT

VRAESTEL 2 VRAAG 4
GRAAD 12
November 2014
MEMORANDUM

The diagram is a circular layout with concentric circles and radial lines. The outermost circle is labeled 'SL' at the top, bottom, and right. A dashed line runs horizontally through the center. A solid line runs vertically through the center. A dashed line runs diagonally from the top-left to the bottom-right. A solid line runs diagonally from the top-right to the bottom-left. On the left side, a hexagonal symbol is labeled '2' in blue. On the right side, two circular symbols are labeled '1' in orange. In the center, three red circles are labeled '3' in red. The diagram is divided into four quadrants by the horizontal and vertical lines.

Kopiereg voorbehou

ASSESSERINGSKRITERIA**LINKERAANSIG**

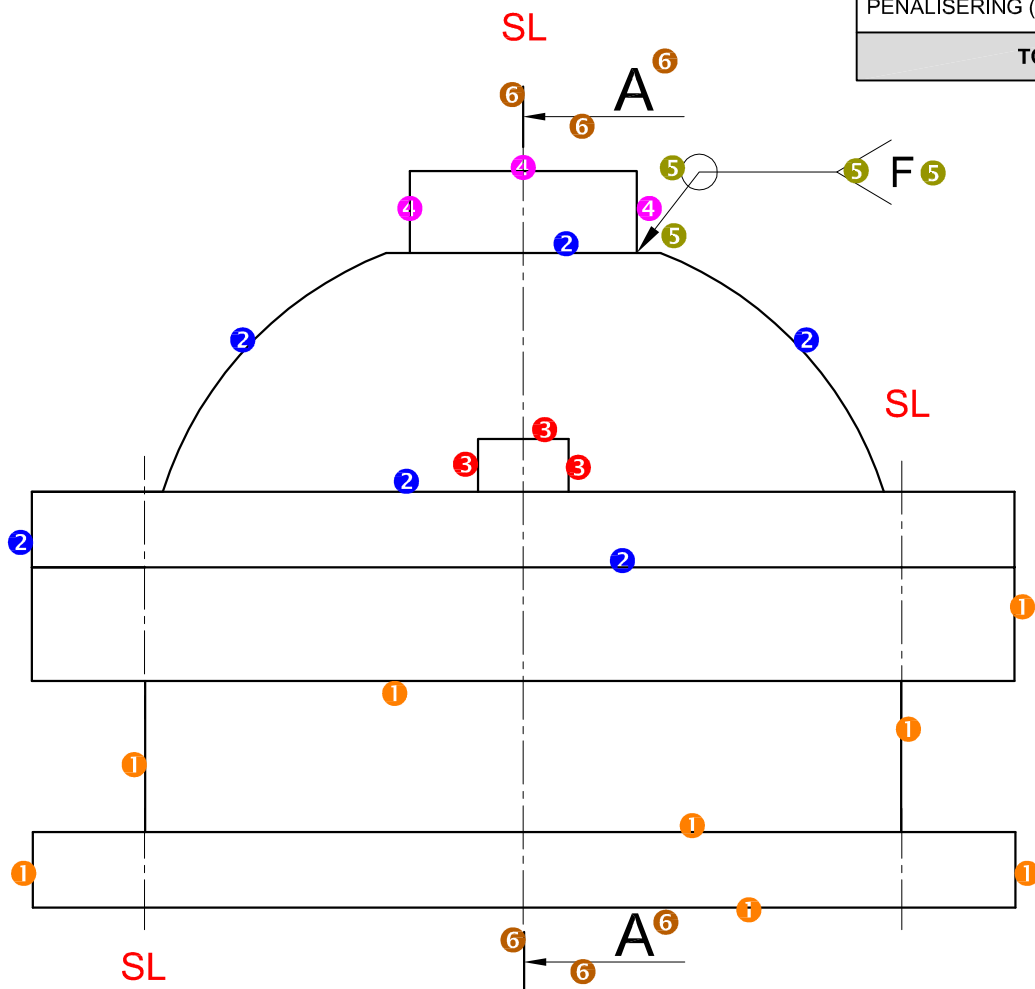
1	SILINDER	4
2	SILINDERKOP	3
3	SOKKOPBOUT	1 $\frac{1}{2}$
4	UITLAATPYP	1 $\frac{1}{2}$
5	SWEISSIMBOOL	2
6	SNYVLAK	3

SUBTOTAAL 15**ALGEMEEN**

1	SENTERLYNE	6
2	SAMESTELLING	8

SUBTOTAAL 14

PENALISERING (-)

TOTAAL 95

GEE 1 PUNT VIR ELKE KORREK
SAAMGESTELDE ONDERDEEL
(9 ONDERDELE - 1 = 8)

VRAESTEL 2 VRAAG 4
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