

**GAUTENG DEPARTMENT OF EDUCATION
GAUTENGSE DEPARTEMENT VAN ONDERWYS
SENIOR CERTIFICATE EXAMINATION
*SENIORSERTIFIKAAT-EKSAMEN***

**WOODWORK / HOUTWERK SG
(First Paper / *Eerste Vraestel*)**

POSSIBLE ANSWERS / MOONTLIKE ANTWOORDE SUPP 2007

VRAAG 1: PRISMAS - 3^{de} HOEKS ORTOGRAFIES

INSIG (Sonder masker)

PLASING	Aansigte in derdehoekse ortografiese projeksie geplaas (2 punte elk)	6
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ALGEMEEN (Sonder masker)

AFMETINGS	3 Afmetings: ○ Verlengingslyne (lig) (1 x 3) ○ Maatlyne (lig) (1 x 3) ○ Pylpunte (donker) (1 x 3) ○ Maatskrywing (1 x 3) [12 ÷ 2]	6
PROJEKSIE- SIMBOOL	○ Vooraansig en linkeraansig (1) ○ Hartlyne (1)	2

AKKURAATHEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

NOTA: Aansigte moet reg geplaas wees om punte te verdien.

VOORAANSIG	○ 4 vlakke: 2 elk (hoogte 1 + lengte 1)	8
BO-AANSIG	○ Seshoek (1 punt per lyn) (6) ○ Driehoekige prisma: 2 punte (hoogte 1 + lengte 1) (2)	8
LINKERAANSIG	○ 3 vlakke: 2 elk (hoogte 1 + lengte 1)	6

	TOTAAL:	36
	÷ 2	18

QUESTION 1: PRISMS - 3rd ANGLE ORTHOGRAPHIC

PERCEPTION (Without mask)

PLACING	Views drawn in third-angle orthographic projection (2 marks each)	6
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GENERAL (Without mask)

MEASUREMENTS	3 Measurements: <ul style="list-style-type: none"> ○ Extention lines (light) (1 x 3) ○ Dimension lines (light) (1 x 3) ○ Arrow heads (dark) (1 x 3) ○ Measurements (1 x 3) [12 ÷ 2] 	6
PROJECTION SYMBOL	<ul style="list-style-type: none"> ○ Front view and left view (1) ○ Centre lines (1) 	2

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

NOTE: To earn any marks the views must be placed correctly.

FRONT VIEW	<ul style="list-style-type: none"> ○ 4 planes: 2 each (height 1 + length 1) 	8
TOP VIEW	<ul style="list-style-type: none"> ○ Hexagon (1 mark per line) (6) ○ Triangular prism: 2 marks (height 1 + length 1) (2) 	8
LEFT VIEW	<ul style="list-style-type: none"> ○ 3 planes: 2 each (height 1 + length 1) 	6

	TOTAL:	36
	$\div 2$	18

VRAAG 2: SERVETRING - HULPAANSIG

AKKURAATHEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

HULPAANSIG	○ 6 vlakke: 2 elk (hoogte 1 + lengte 1)	12
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	TOTAAL:	12
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QUESTION 2: NAPKIN RING - AUXILIARY VIEW

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

AUXILIARY VIEW	○ 6 planes: 2 each (height 1 + length 1)	12
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	TOTAL:	12
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VRAAG 3: VOEG - ISOMETRIES

INSIG (Sonder masker)

PLASING	<ol style="list-style-type: none"> 1. Plasing t.o.v. vraag: A = 4 B = 4 2. Los van mekaar en gereed om te voeg = 4 3. Op isometriese asse = 2 	14
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ALGEMEEN (Sonder masker)

LYNE	<ol style="list-style-type: none"> 1. Vier tipes lyne: <ul style="list-style-type: none"> ○ Randlyne (donker) (4) ○ Kortstrepieslyne (lig) (4) ○ Projeksielyne (baie lig) (4) 	12
VERSTEEKTE BESONDERHEDE VAN A	<ol style="list-style-type: none"> 2. 18 lyne: 1 punt elk 	18

AKKURAA THEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

DEEL A	<ul style="list-style-type: none"> ○ 4 vlakke: 8 elk (hoogte 4 + lengte 4) 	32
DEEL B	<ul style="list-style-type: none"> ○ 8 vlakke: 8 elk (hoogte 4 + lengte 4) 	64

	TOTAAL:	140
	÷ 4	35

QUESTION 3: JOINT - ISOMETRIC

PERCEPTION (Without mask)

PLACING	1. Placing according to the question: A = 4 B = 4 2. Apart from each other and ready to joint = 4 3. On the isometric axes = 2	14
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GENERAL (Without mask)

LINES	1. Four types of lines: <ul style="list-style-type: none"> ○ Outline (dark) (4) ○ Dashed lines (light) (4) ○ Projection lines (very light) (4) 	12
HIDDEN DETAIL OF A	2. 18 lines: 1 mark each	18

ACCURACY (With mask)

The following tolerances will apply:

- 0 mm – 1 mm deviation = Full marks
- 1 mm – 3 mm deviation = Minus 25%
- More than 3 mm deviation = Minus 50%

PART A	<ul style="list-style-type: none"> ○ 4 planes: 8 each (height 4 + length 4) 	32
PART B	<ul style="list-style-type: none"> ○ 8 planes: 8 each (height 4 + length 4) 	64

TOTAL:	140
÷ 4	35

VRAAG 4: KABINET - ORTOGRAFIES

INSIG (Sonder masker)

TWEE AANSIGTE GETEKEN	Korrekte plasing van: 1. Vooraansig (6) 2. Deursnee-linkeraansig (snitte moet getoon wees) (6)	12
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ALGEMEEN (Sonder masker)

LYNE	1. Twee tipes lyne: ○ Arseerlyne (baie lig) = 3 ○ Snylyn (donker en lig) = 4	7
ARSERING: DEURSNEE- LINKERAANSIG	2. Arsering van korrekte vlakke: ○ 15 vlakke 2 punte elk	30

AKKURAA THEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

VOORAANSIG	○ 19 vlakke: 4 elk (hoogte 2 + lengte 2)	76
DEURSNEE- LINKERAANSIG	○ 30 vlakke: 4 elk (hoogte 2 + lengte 2)	120

TOTAAL:	245
$\div 7$	35

QUESTION 4: CABINET - ORTHOGRAPHIC

PERCEPTION (Without mask)

THREE VIEWS DRAWN	Correct placing of: 1. Front view (6) 2. Sectional left view (sections should be shown) (6)	12
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GENERAL (Without mask)

LINES	1. Two types of lines: ○ Projection lines (light) = 3 ○ Cutting line (dark and light) = 4	7
HATCHING: SECTIONAL LEFT VIEW	2. Hatching of correct planes: ○ 15 planes 2 marks each	30

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

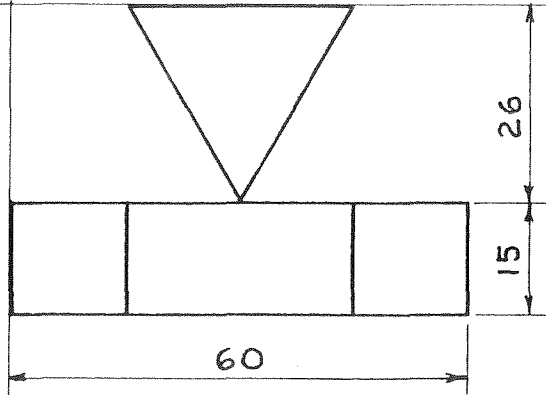
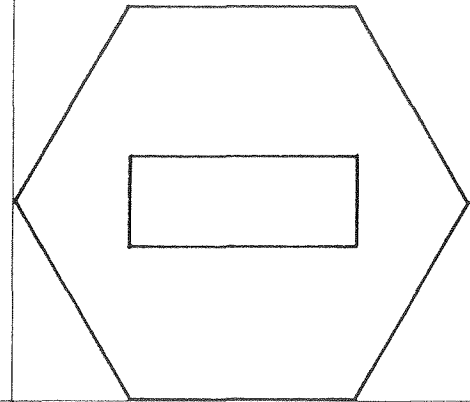
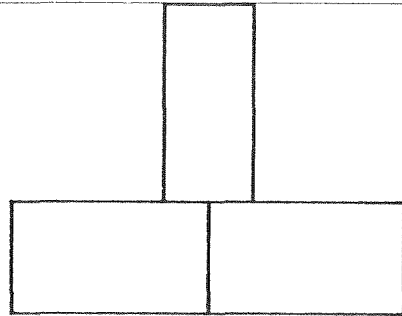
1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

FRONT VIEW	○ 19 planes: 4 each (height 2 + length 2)	76
SECTIONAL LEFT VIEW	○ 30 planes: 4 each (height 2 + length 2)	120
TOTAL:		245
÷ 7		35

QUESTION
VRAAG 1

1

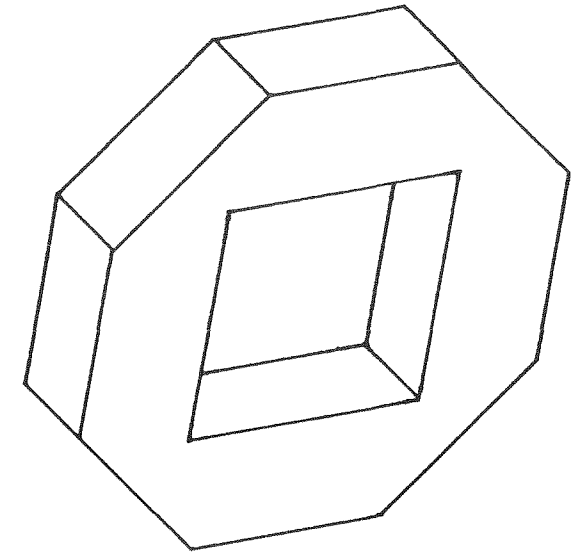
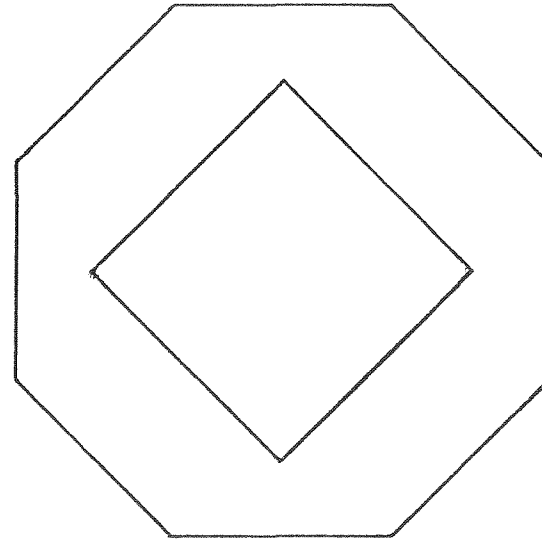


QUESTION
VRAAG 2

2

WOODWORK / HOUTWERK SG
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2



SYMBOL
SIMBOOL



PERCEPTION / INSIG

Placing / Plasing	6
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GENERAL / ALGEMEEN

Measurements / Afmetings	6
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Symbol / Simbool	2
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ACCURACY / AKKURAAKHEID

• Front view / Vooraansig	8
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• Top view / Bo-aansig	8
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• Left view / Linkeraansig	6
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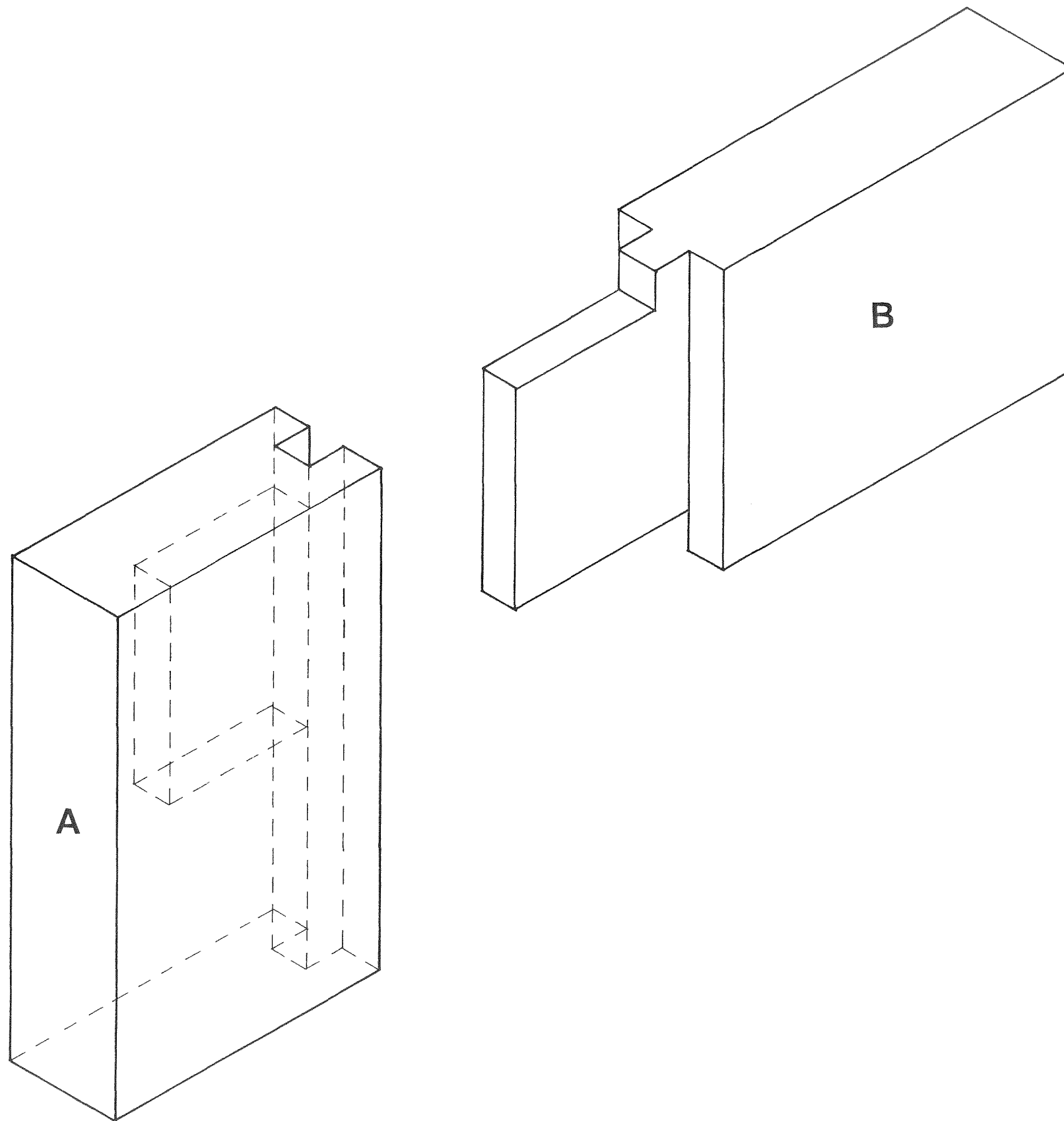
TOTAL / TOTAAL:	36
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÷ 2	18
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FIG. 2

(12)





PERCEPTION / INSIG

• Placing / Plasing	14	
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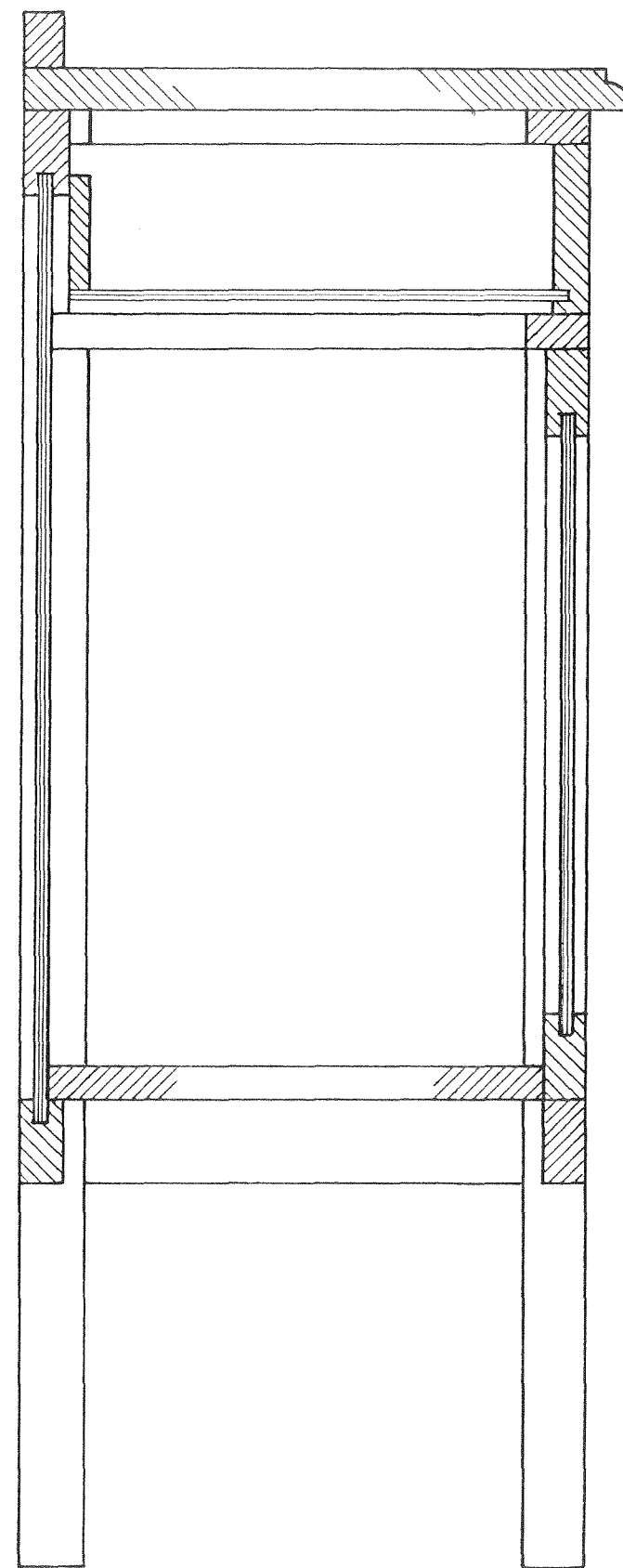
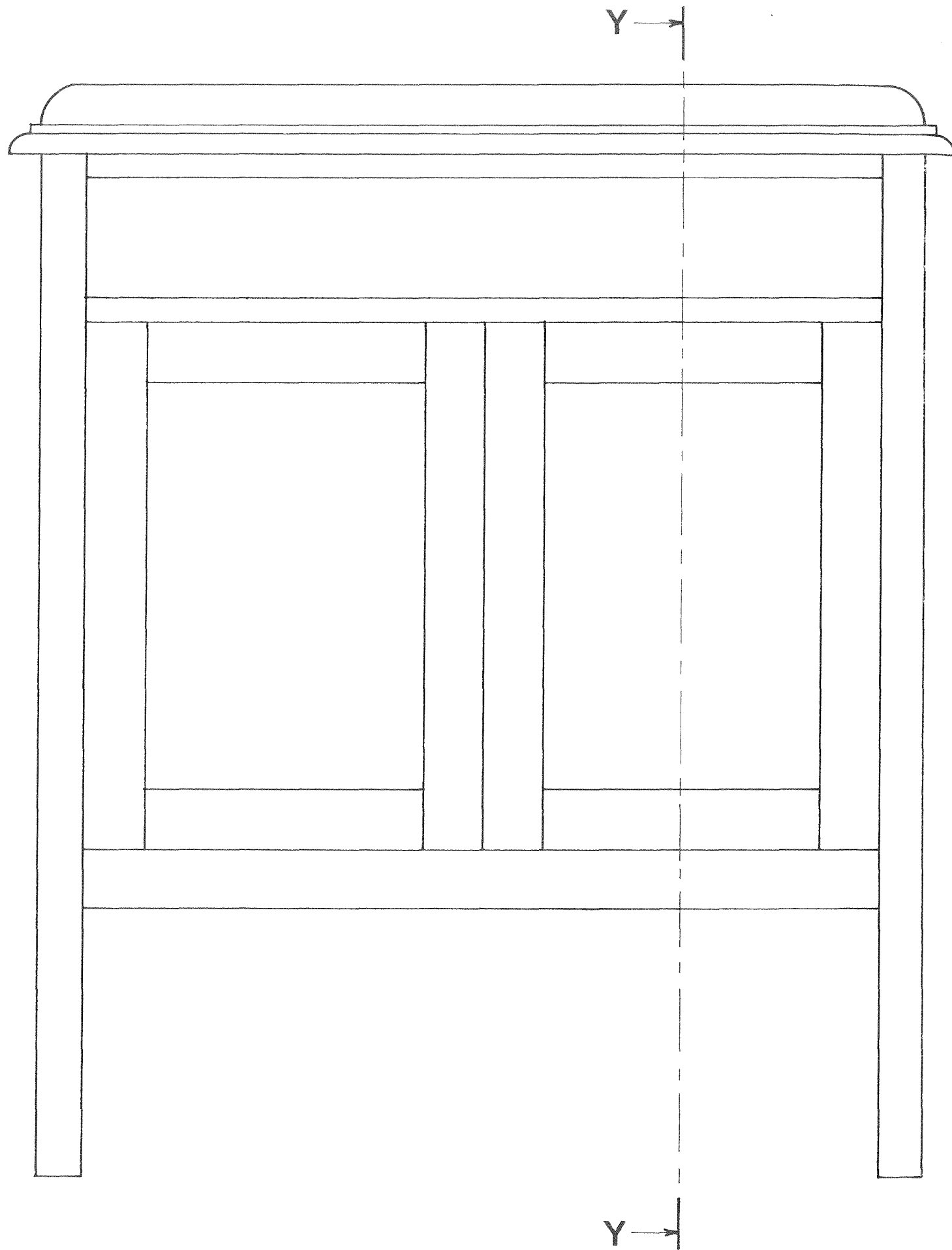
GENERAL / ALGEMEEN

• Lines / Lyne	12	
• Hidden detail of A / Versteekte besonderhede van A	18	

ACCURACY / AKKURAATHEID

• Part A / Deel A	32	
• Part B / Deel B	64	

TOTAL / TOTAAL:	140	
÷ 4	35	



PERCEPTION / INSIG

• Views drawn / Aansigte geteken	12	
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GENERAL / ALGEMEEN

• Lines / Lyne	7	
• Hachuring / Arsering	30	

ACCURACY / AKKURAAATHEID

• Front view / Vooraansig	76	
• Sectional left view / Deursnee linkeraansig	120	

TOTAL / TOTAAL:	245	
	÷ 7	35