



NATIONAL ALUMINIUM
PRODUCTS COMPANY SAOG

N Minimal Catalogue



10 - 2020 - V.02

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About Us

National Aluminium Products Company SAOG (NAPCO) was established in 1984 and is one of the leading extruders of aluminium profiles in the GCC market. Located in the Sultanate of Oman, the manufacturing plant is spread over 65,000 sq meters in the Rusayl Industrial estate.

NAPCO offers a wide range of Aluminium profile extrusions in finishes that suit functional modern design specifications. The company has left its mark on the architectural landscape of the Middle East with its renowned quality products being used in a number of prominent structures.

Our annual production capacity is 42,000 MT with four (4) state of the art presses. The extrusion presses are complemented by one anodizing line and two powder coating lines (vertical & horizontal). NAPCO also houses two wood finish lines and a crimping and bending facility.

NAPCO's commitment to quality has made it the first extrusion company in the Gulf to receive ISO certifications. We are also the only public limited aluminium extrusion company in the entire GCC.

With a consistent focus on innovative production skills and high service standards, we will continue our objective to meet customer demands and expectations.

Technical Information on Aluminium extrusions supplied by NAPCO

A. Equipment & Capacity

Extrusion Press: 4

2000 MT (8') SMS Germany

2800 MT (9') Danieli Breda, Italy

1800 MT (7') Tecalex, Spain

1800 MT (7') Tecalex, Spain

Powder Coating Plant: 2

Horizontal Type, Ercon, UK

Vertical Type, Trasmetal, Italy

Anodizing Line: 1

SAS, Germany

Wood Finish: 2 NATURALL, Italy.

Crimping & Bending Facility.

- **Current Capacity Per Annum**

Extrusion: 42,000

Powder Coating: 27,000

Anodizing: 2,400

Wood Finish: 1,500

B. General Specification

Max profile size CCD 305mm

(*indicative size)

C. Product Range

NAPCO offers a range of over 6000 profiles to suit the architectural and manufacturing industry. NAPCO also develops exclusive dies for customers against their own designs.

- **Aluminium extrusions in:**

Mill Finish

Anodized

Powder Coated and Natural Wood Finish

- **Façade Systems:**

NAPCO is in partnership with world renowned façade system houses in the GCC. Please contact us to discuss your best-fit solution.

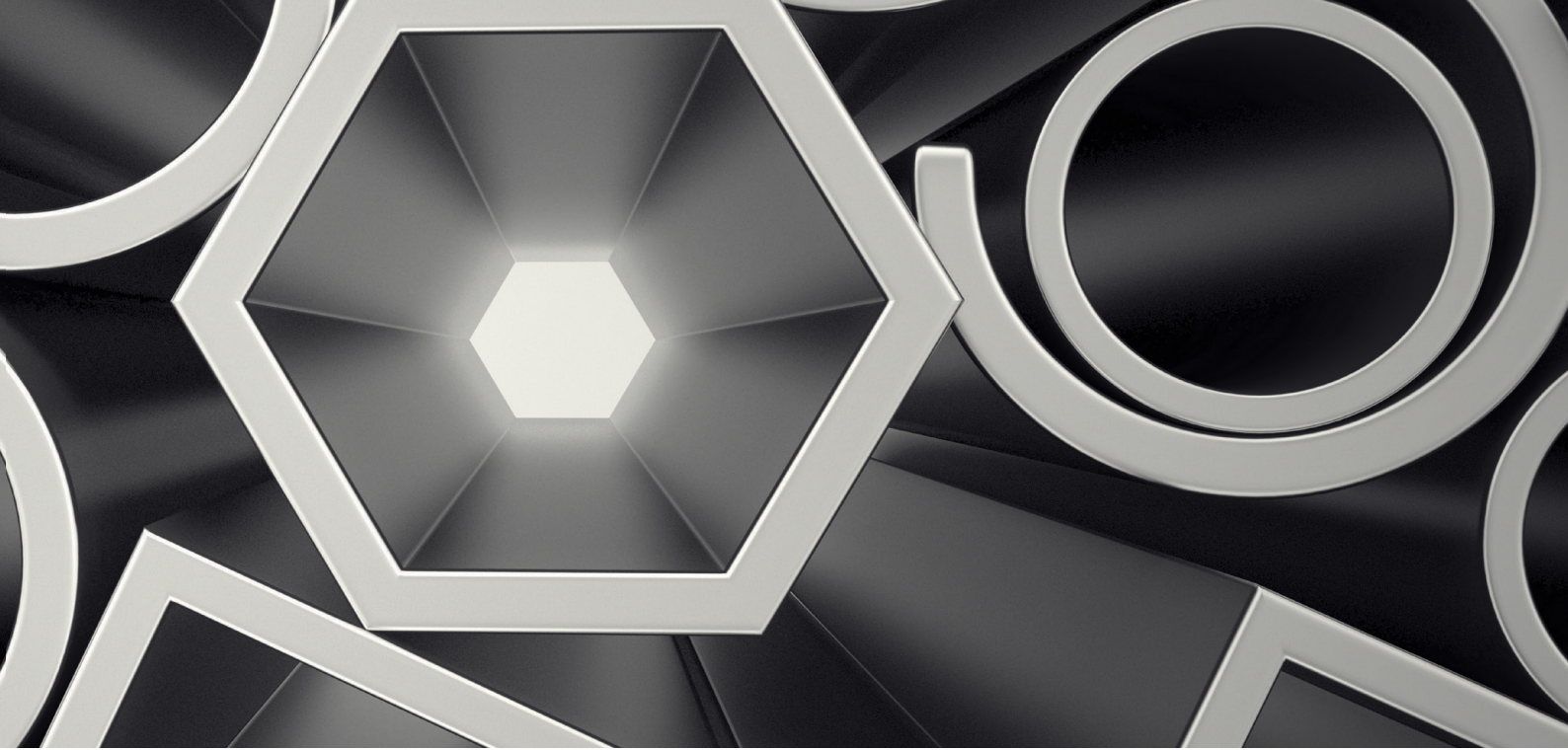
D. Anodizing

NAPCO has one anodizing line employing sulphuric acid anodizing process offering a wide range of colour shades such as Silver, Bronze and Black with scope of development of other shades to suit customer requirements.

Specifications: DC Sulphuric Acid Anodizin

As per EN 1 - 12373 and BS 1991 3987

Qualanod Approved



E: Powder Coating

NAPCO has two powder coating lines (horizontal & Vertical) with IR curing ovens. The colour coat thickness in exposed areas is Around 80-60 microns. The new vertical line is able to accommodate profile lengths up to 8 meters.

Qualicoat Approved.

Natural finish is available in seven combinations of Wood patterns.

Specification: As per 6496

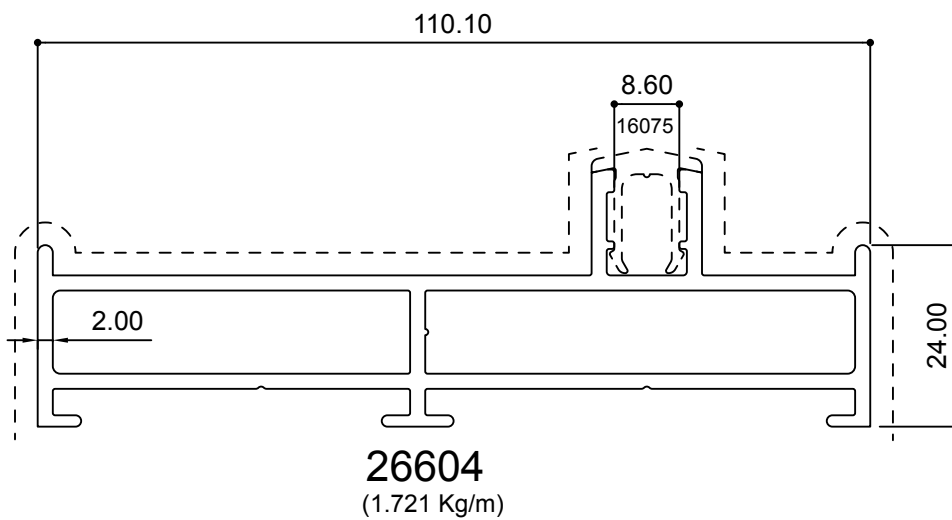
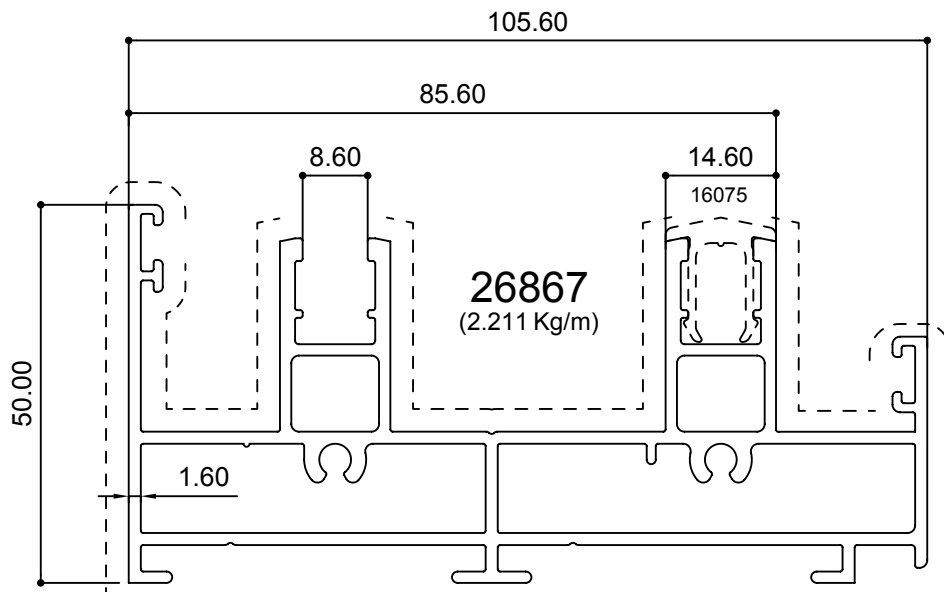
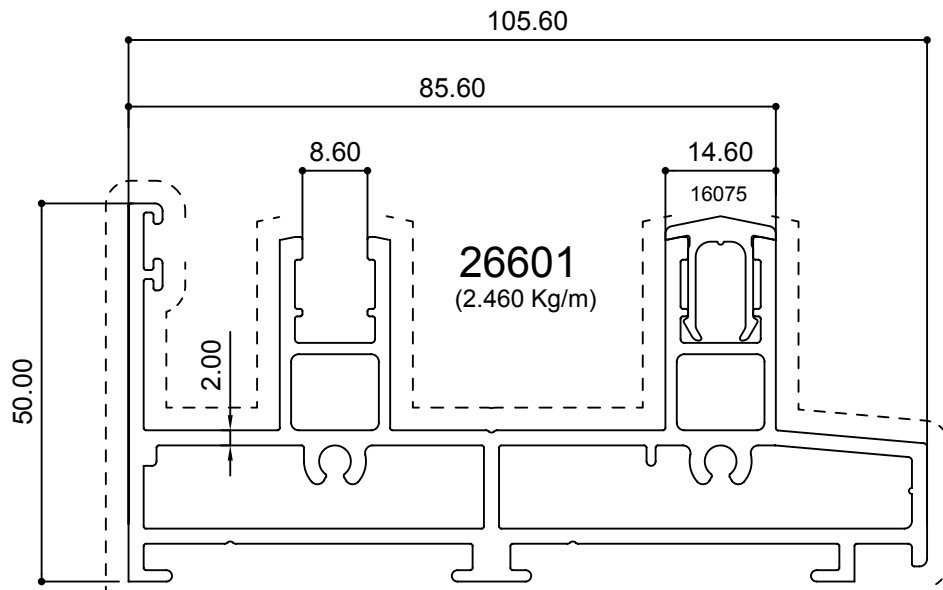
F. Certifications

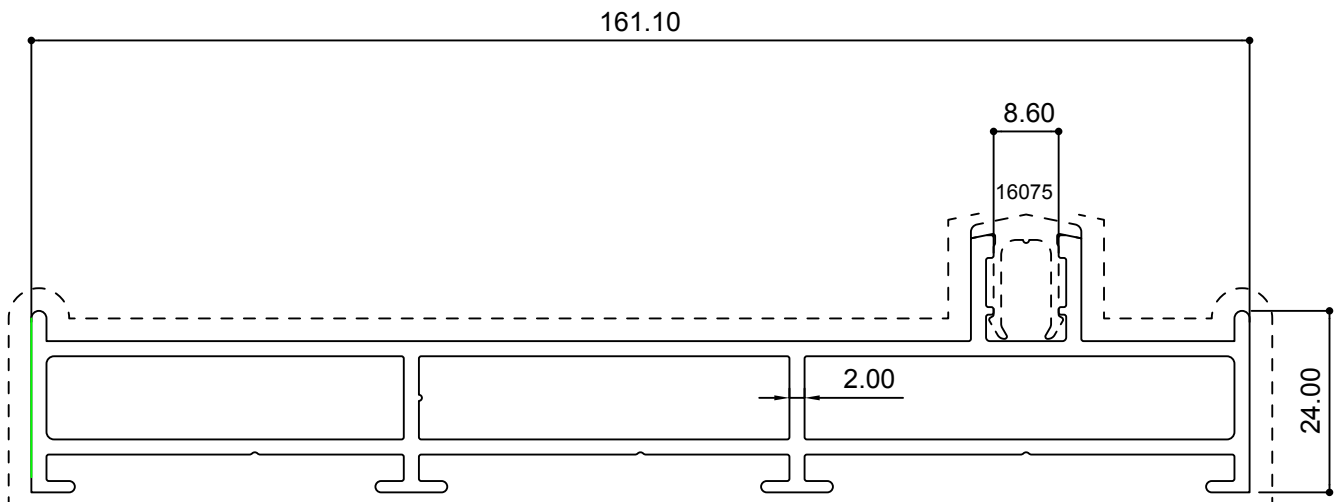
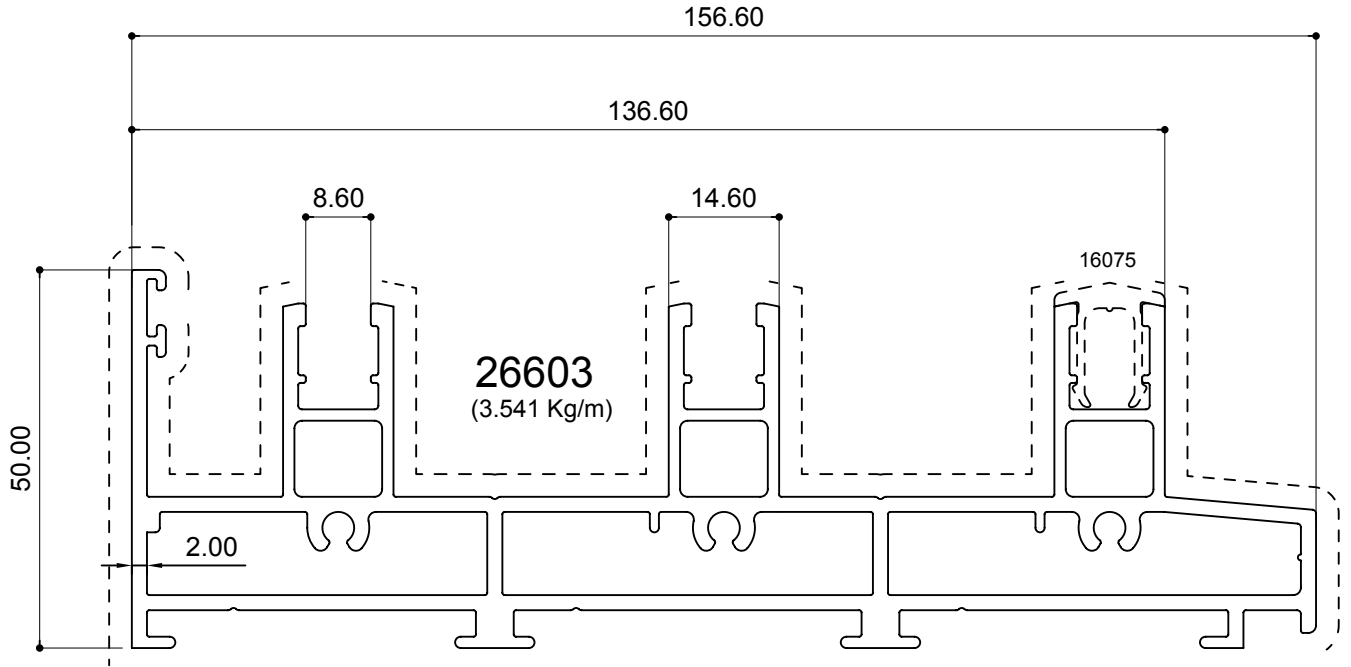


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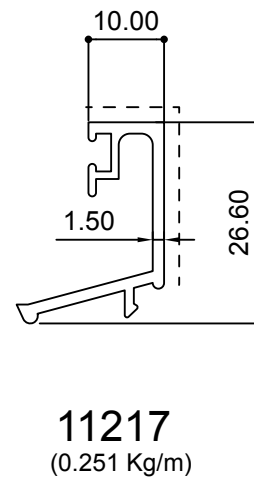
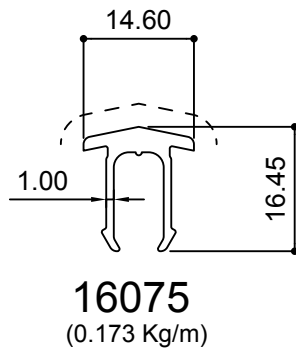
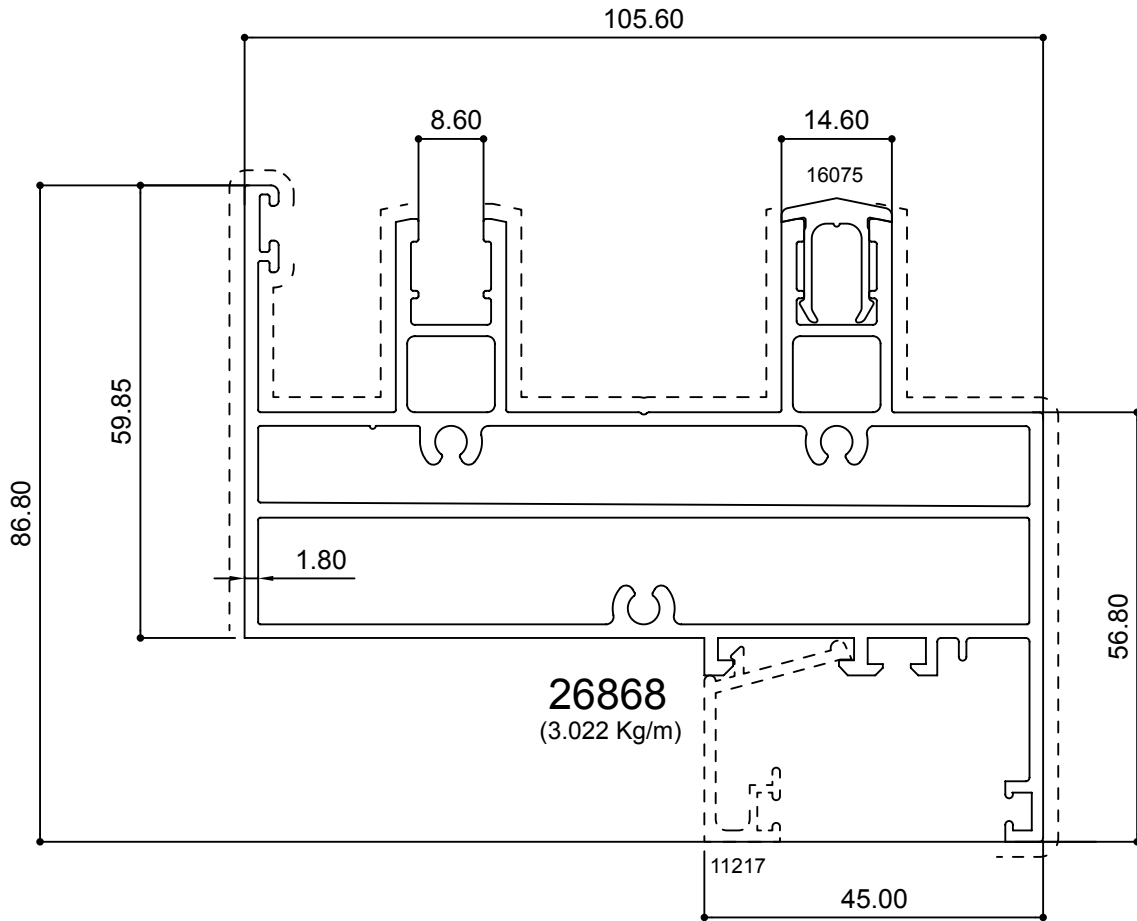
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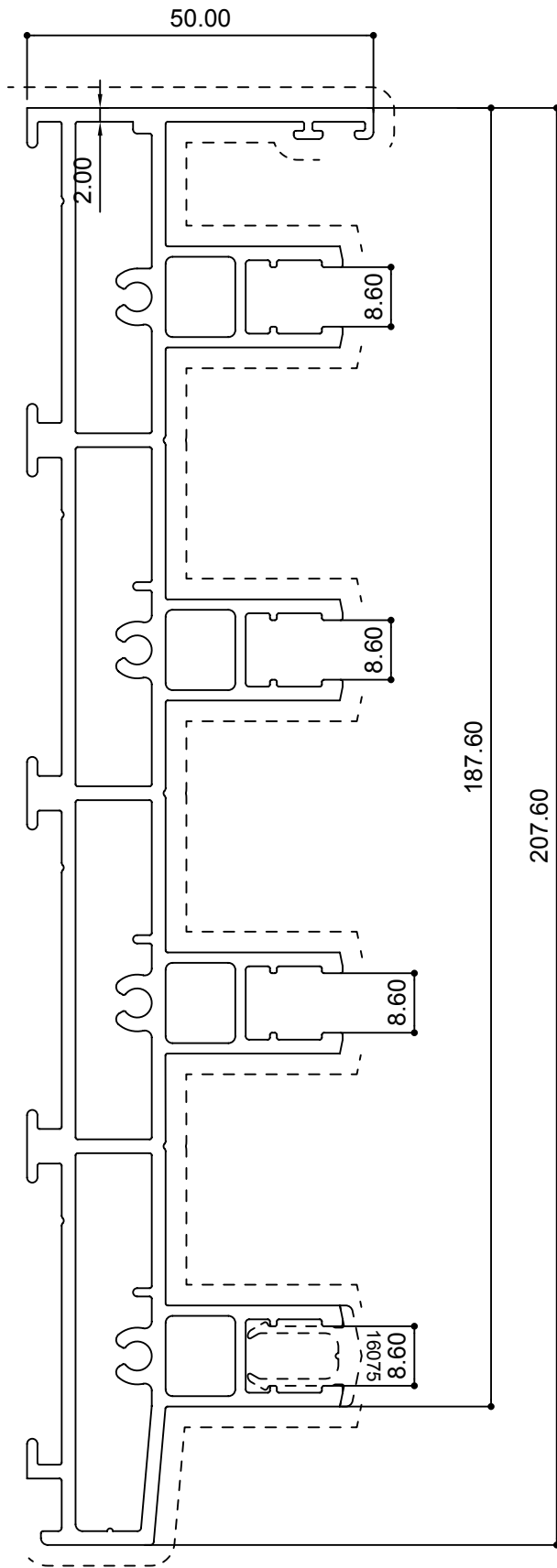


26602
(2.387 Kg/m)

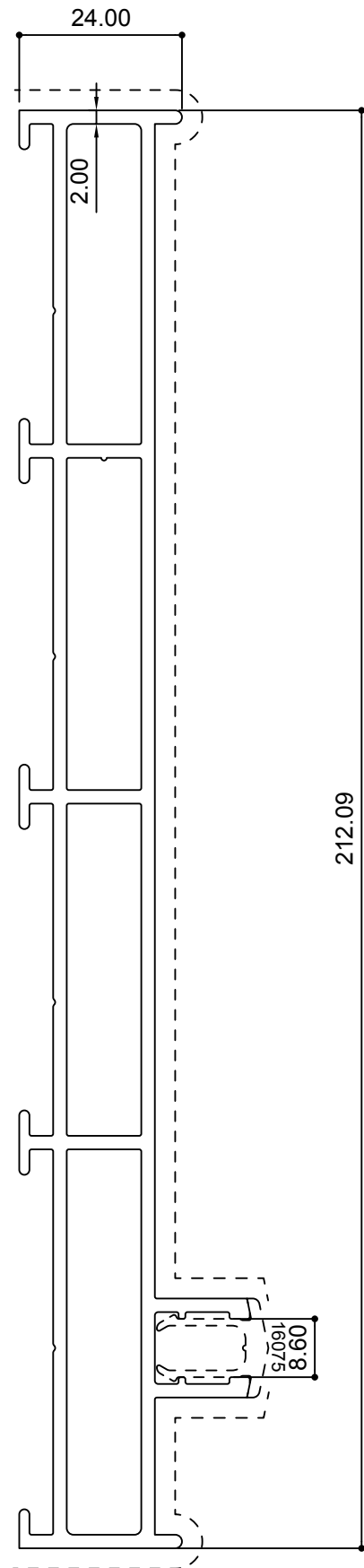
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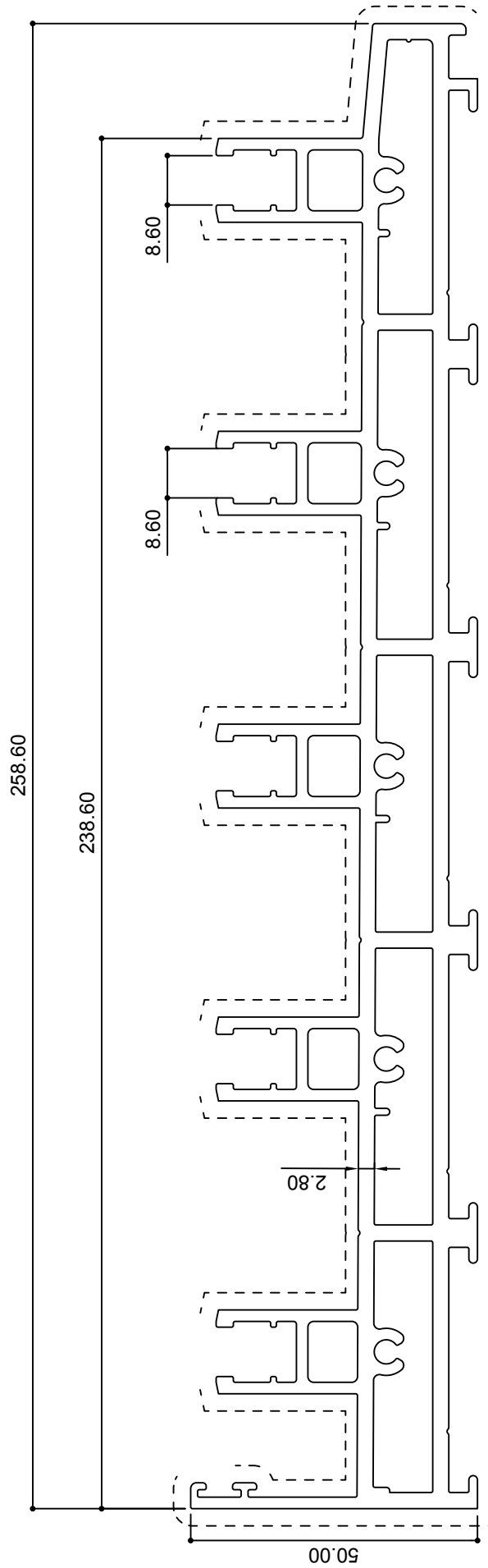
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(4.622 Kg/m)



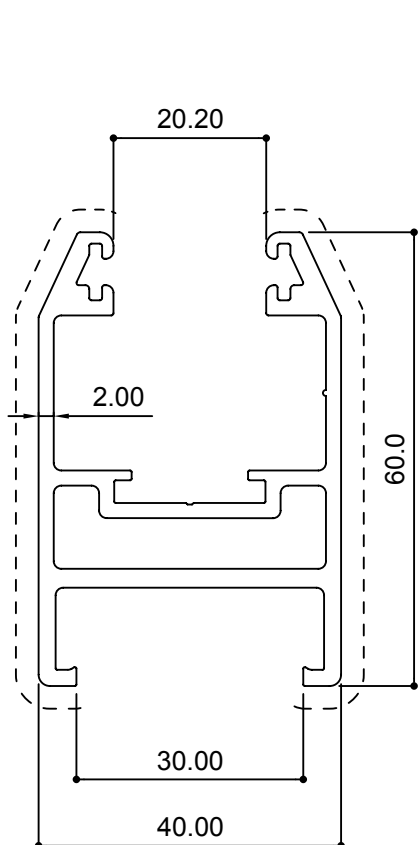
26598
(3.053 Kg/m)

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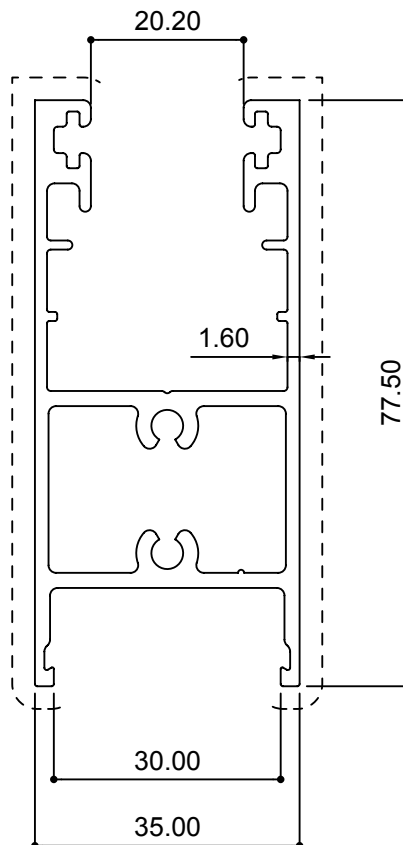
27612
(7.048 Kg/m)



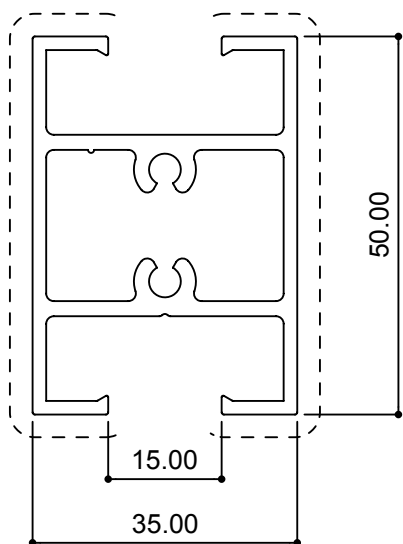
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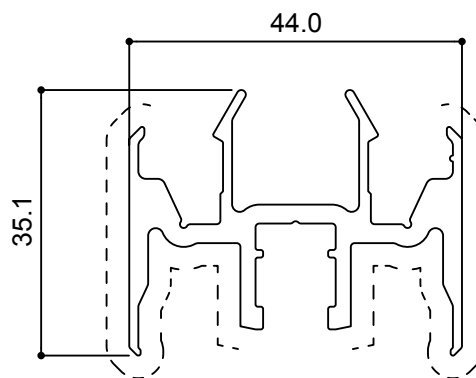
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1.391 Kg/m



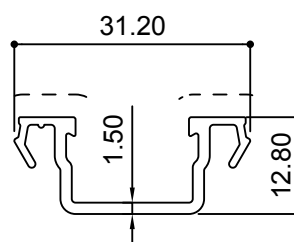
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1.479 Kg/m



27569
1.137 Kg/m

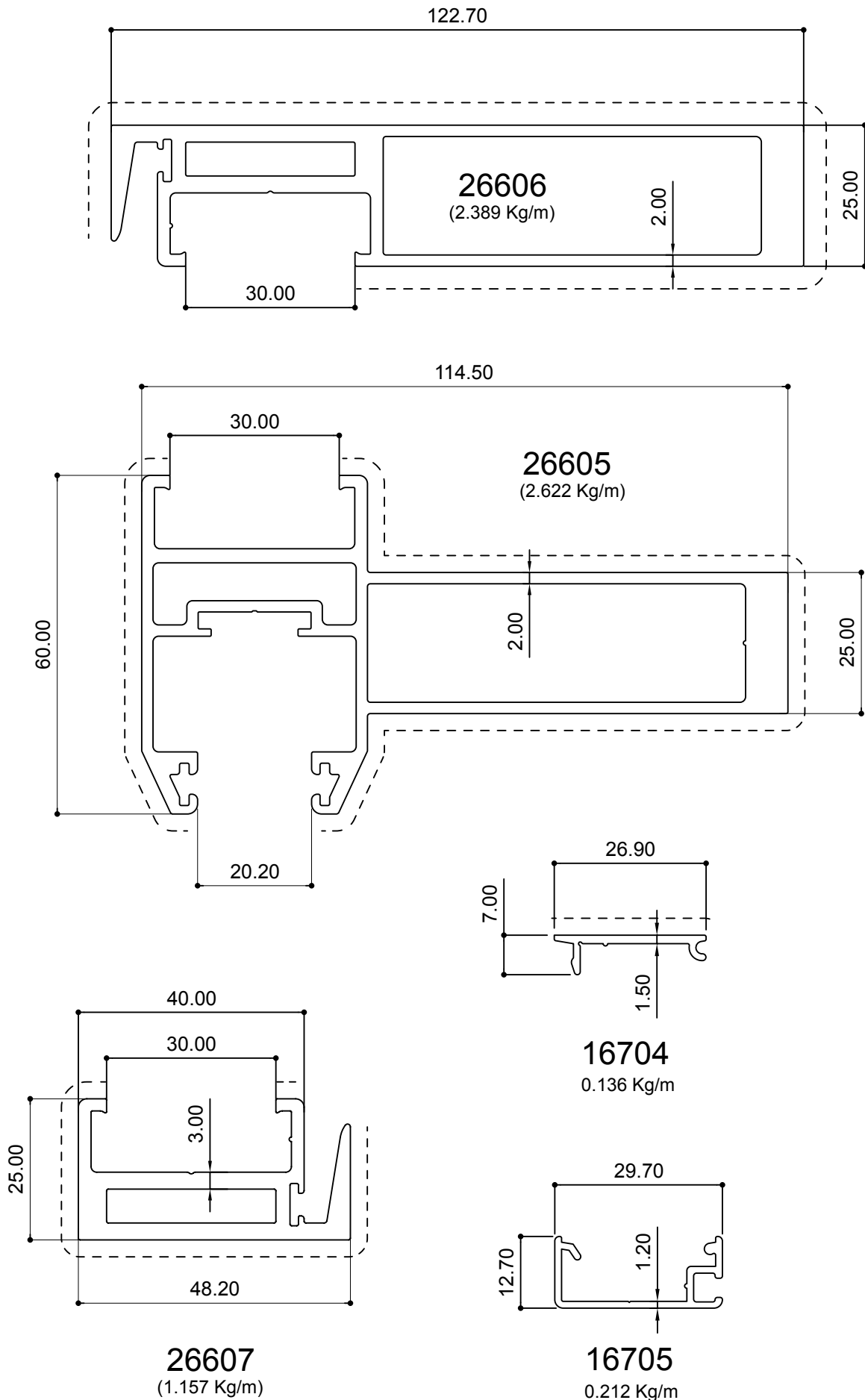


16073
(0.969 Kg/m)



16074
(0.242 Kg/m)

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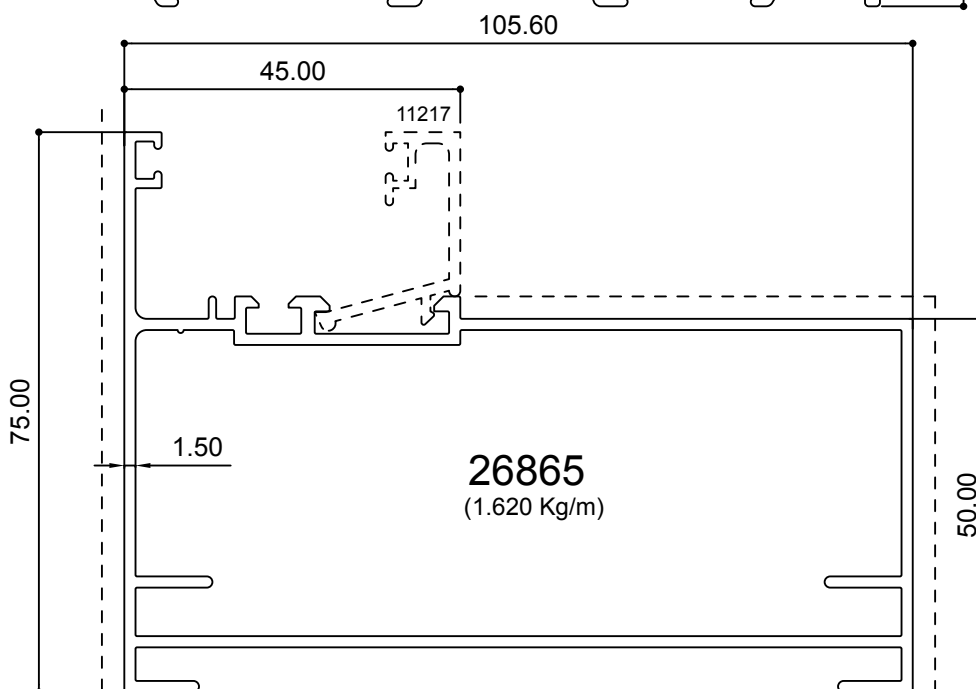
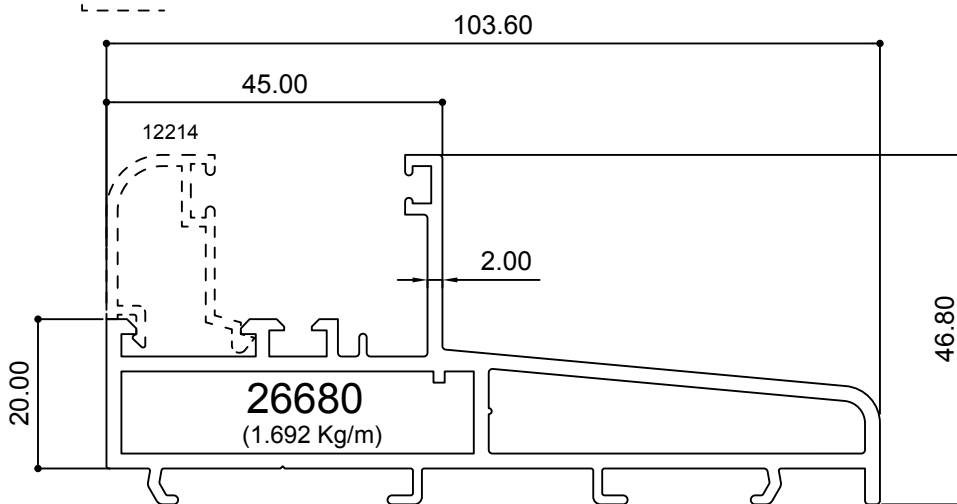
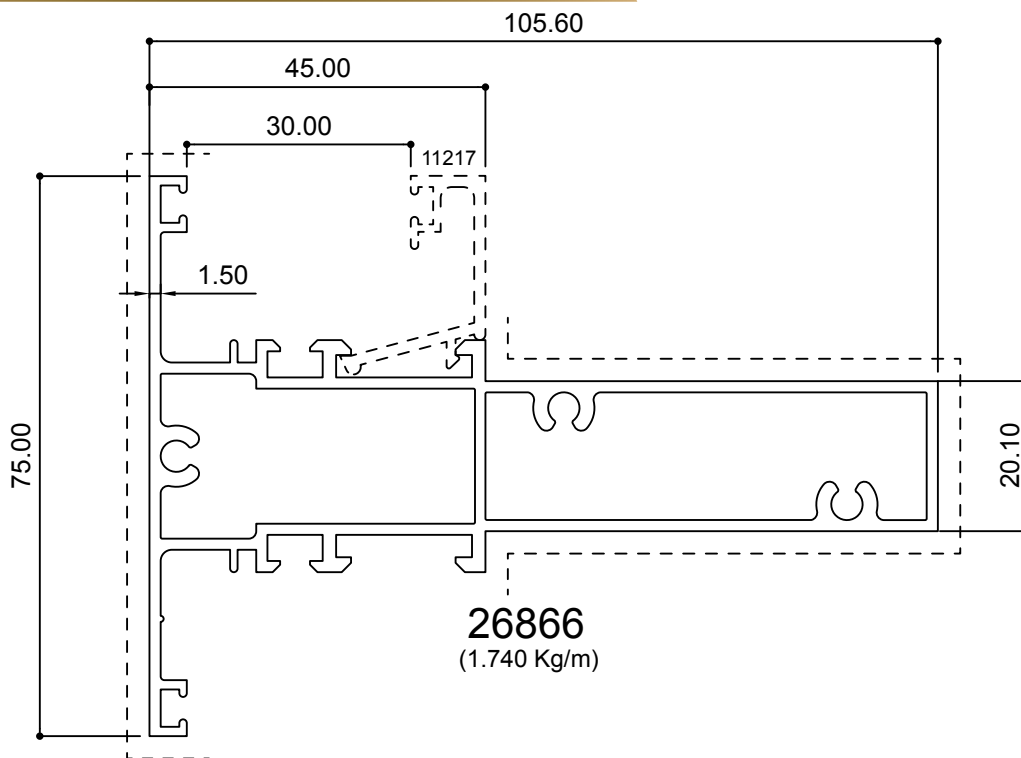




CHART A (EI = 14.71)

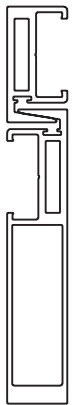


CHART B (EI = 107.82)

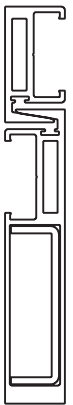


CHART C (EI = 143)



CHART D (EI = 200.93)

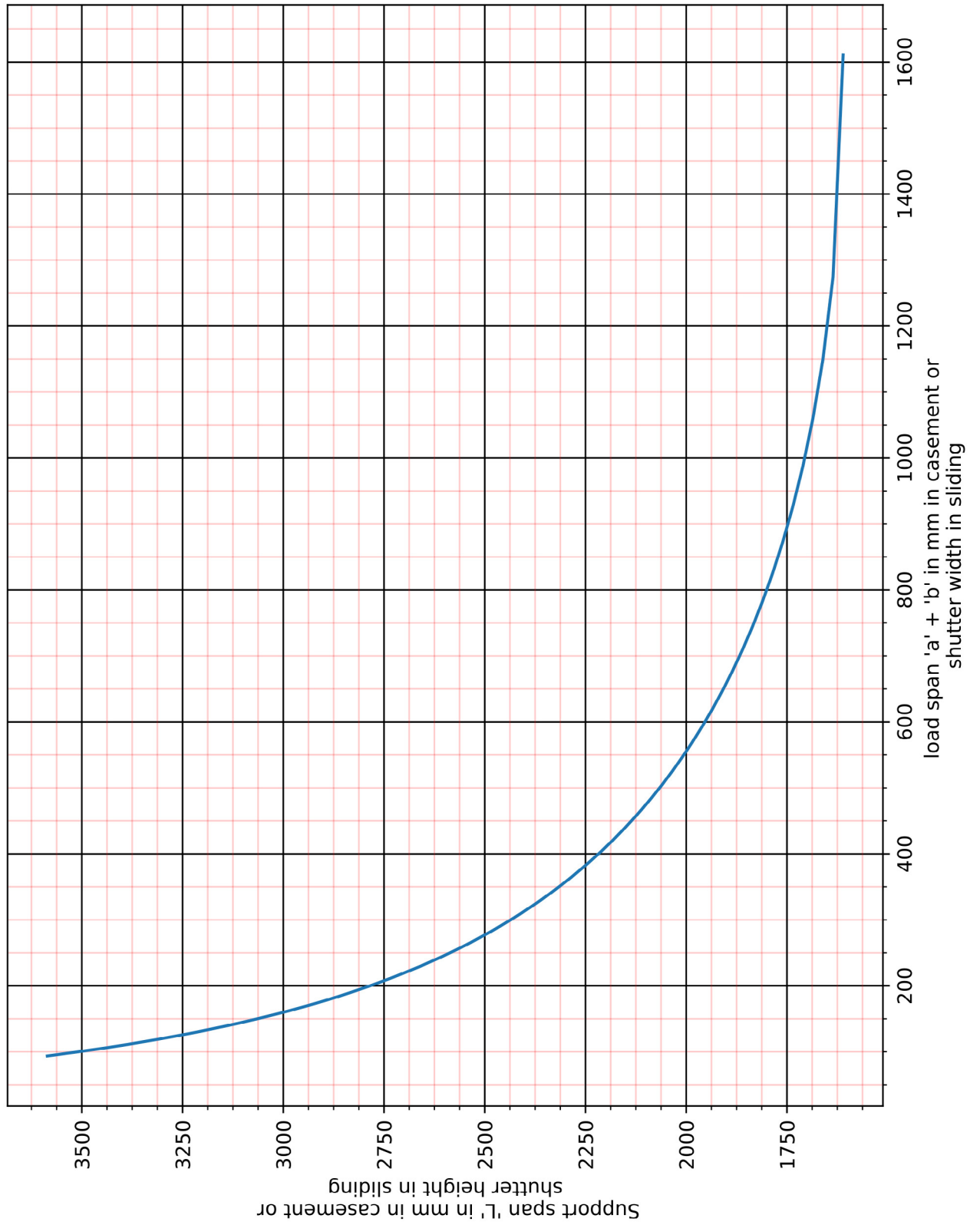


CHART E (EI = 236.17)

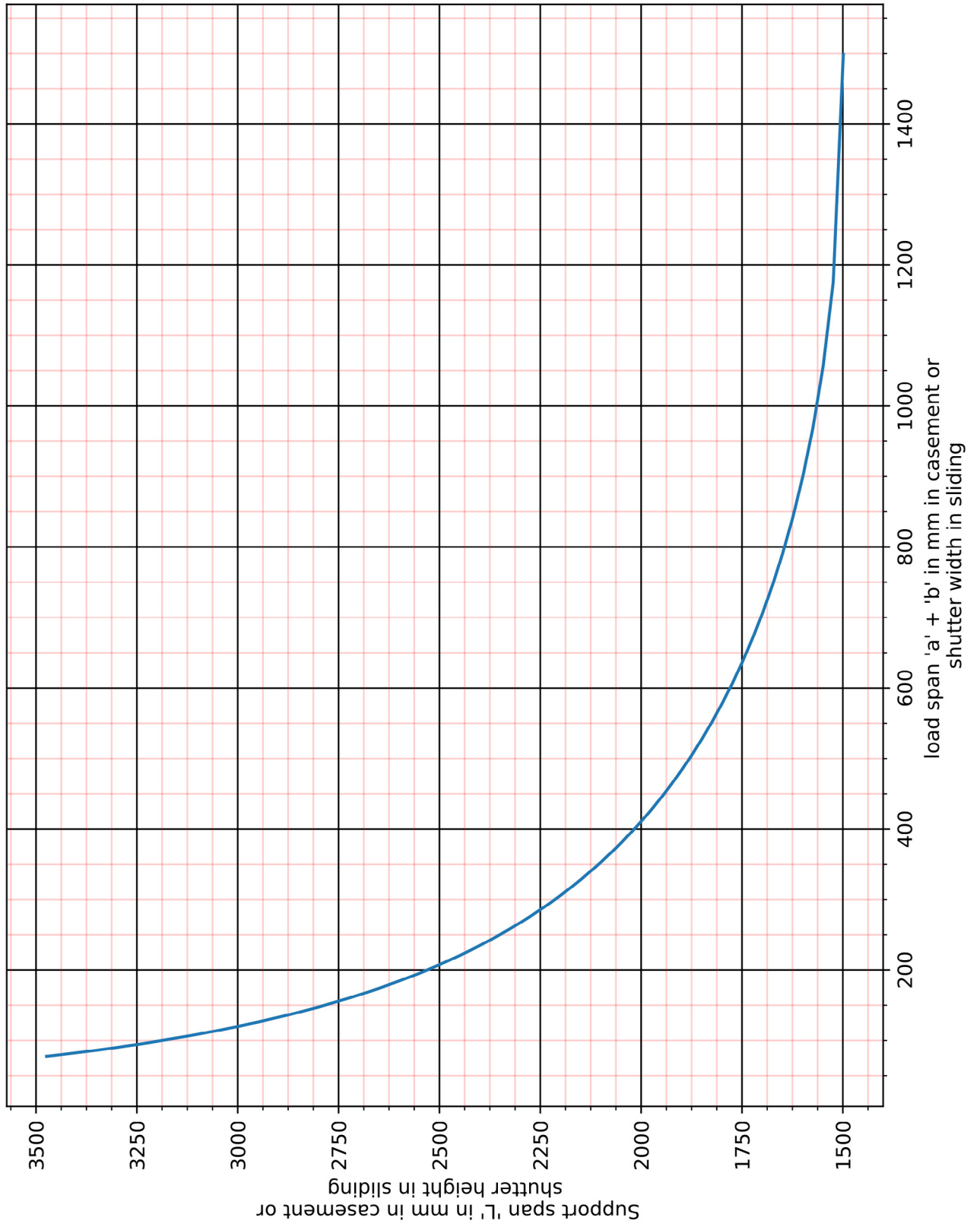


CHART F (EI = 271.41)

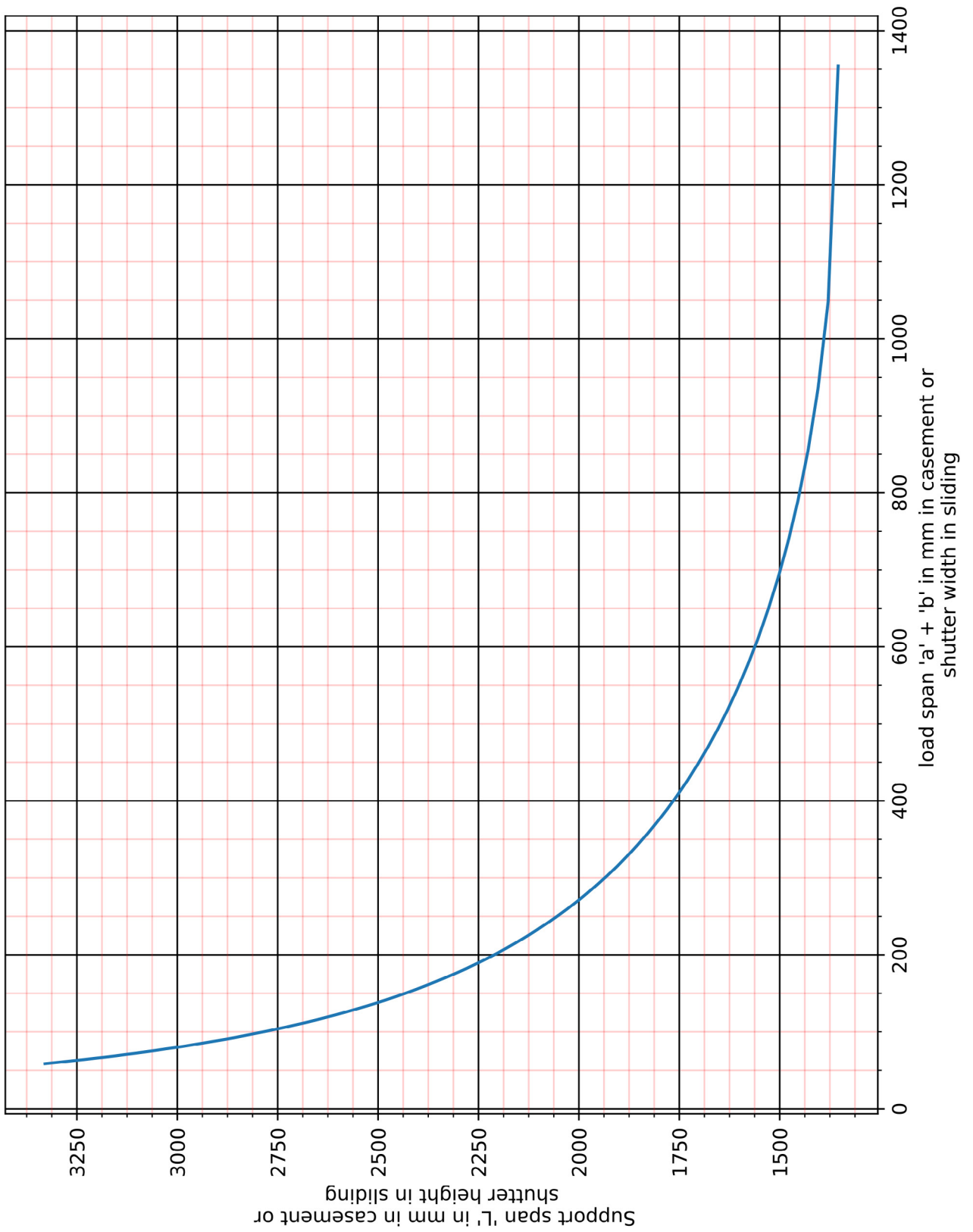
Size Selection Chart - CHART A - 1500 Pa
at 1500 Pa & EI = 14.71 x 10⁹ N-mm²



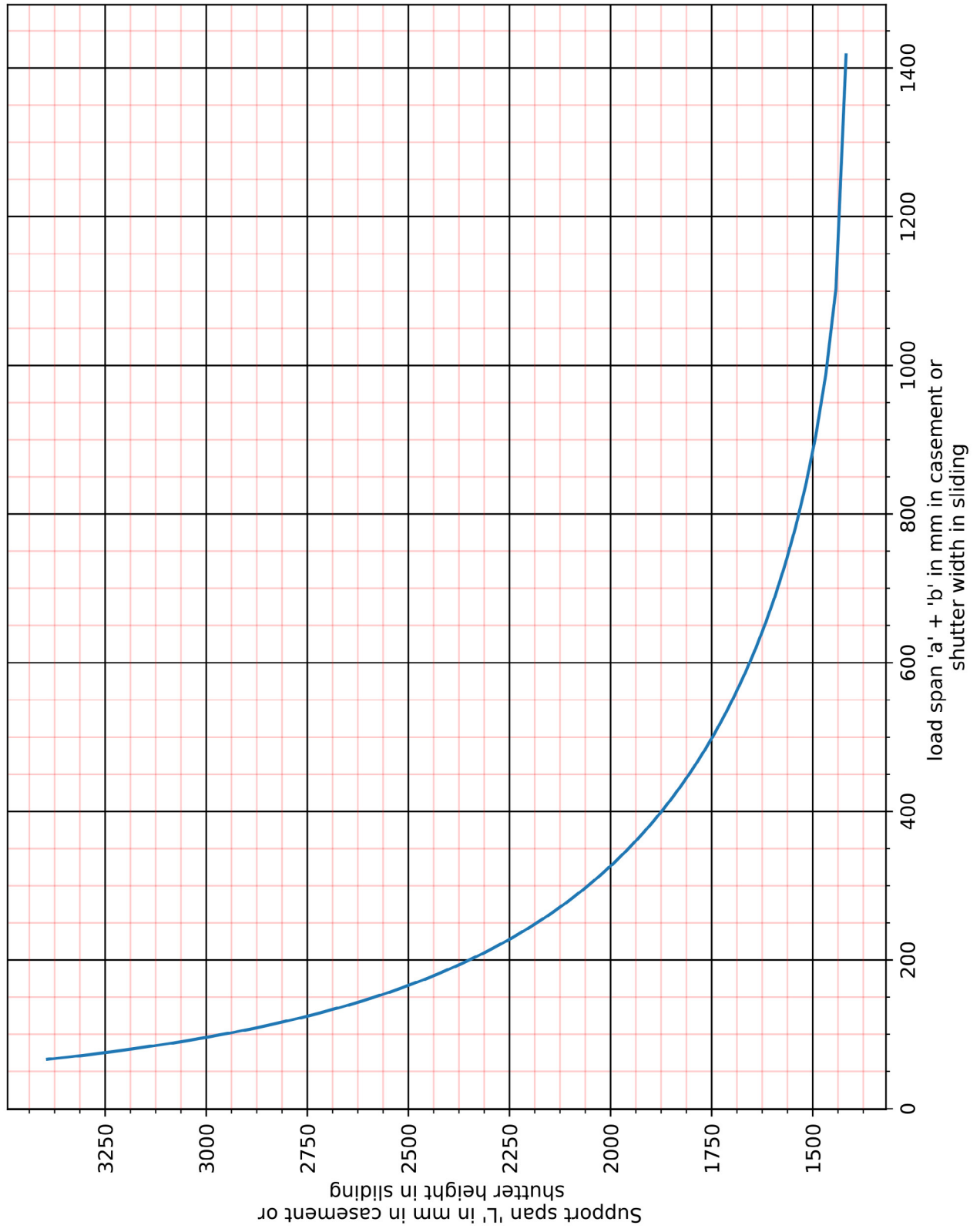
Size Selection Chart - CHART A - 2000 Pa
at 2000 Pa & EI = 14.71 x 10⁹ N-mm²



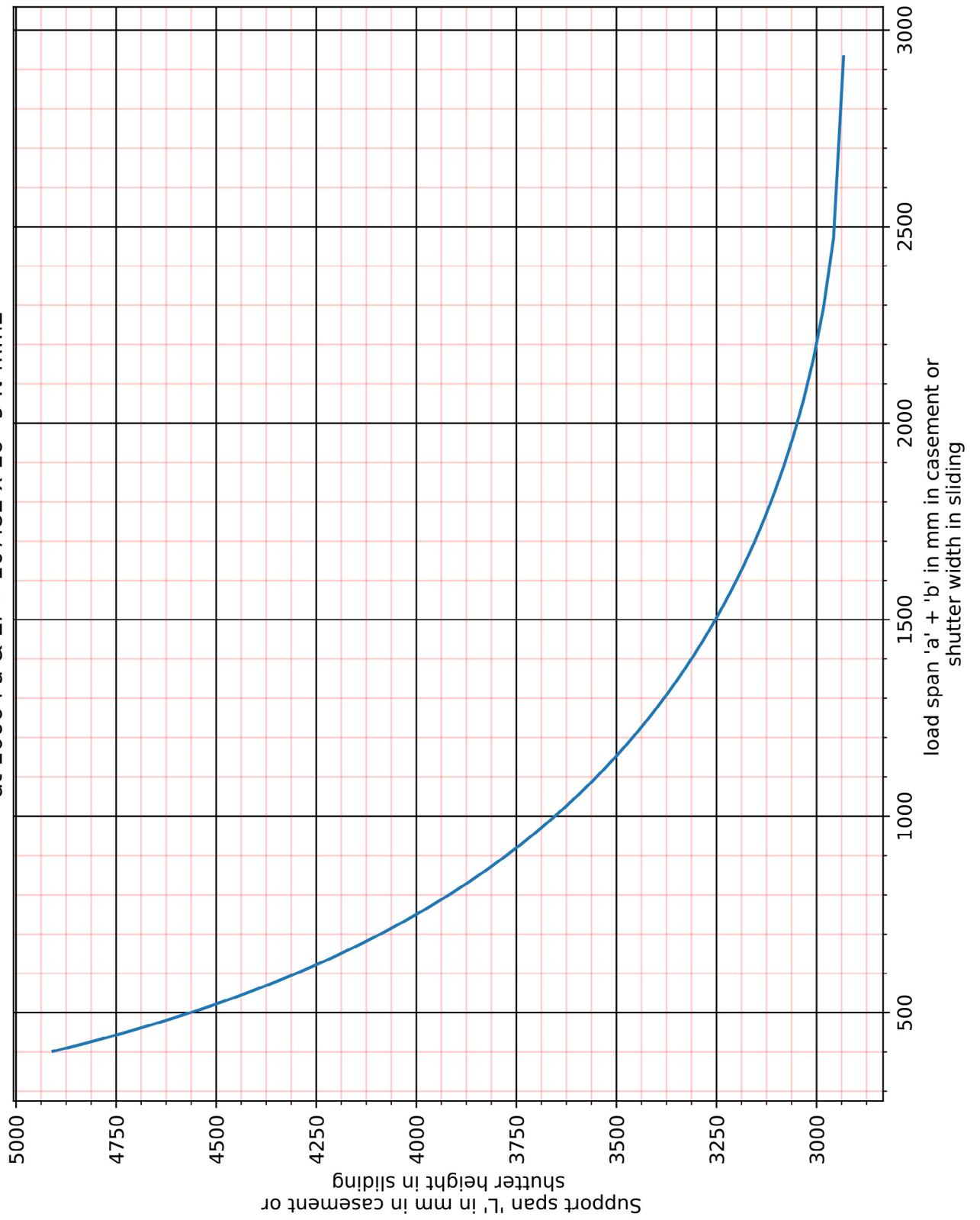
Size Selection Chart - CHART A - 3000 Pa
at 3000 Pa & EI = 14.71 x 10⁹ N-mm²



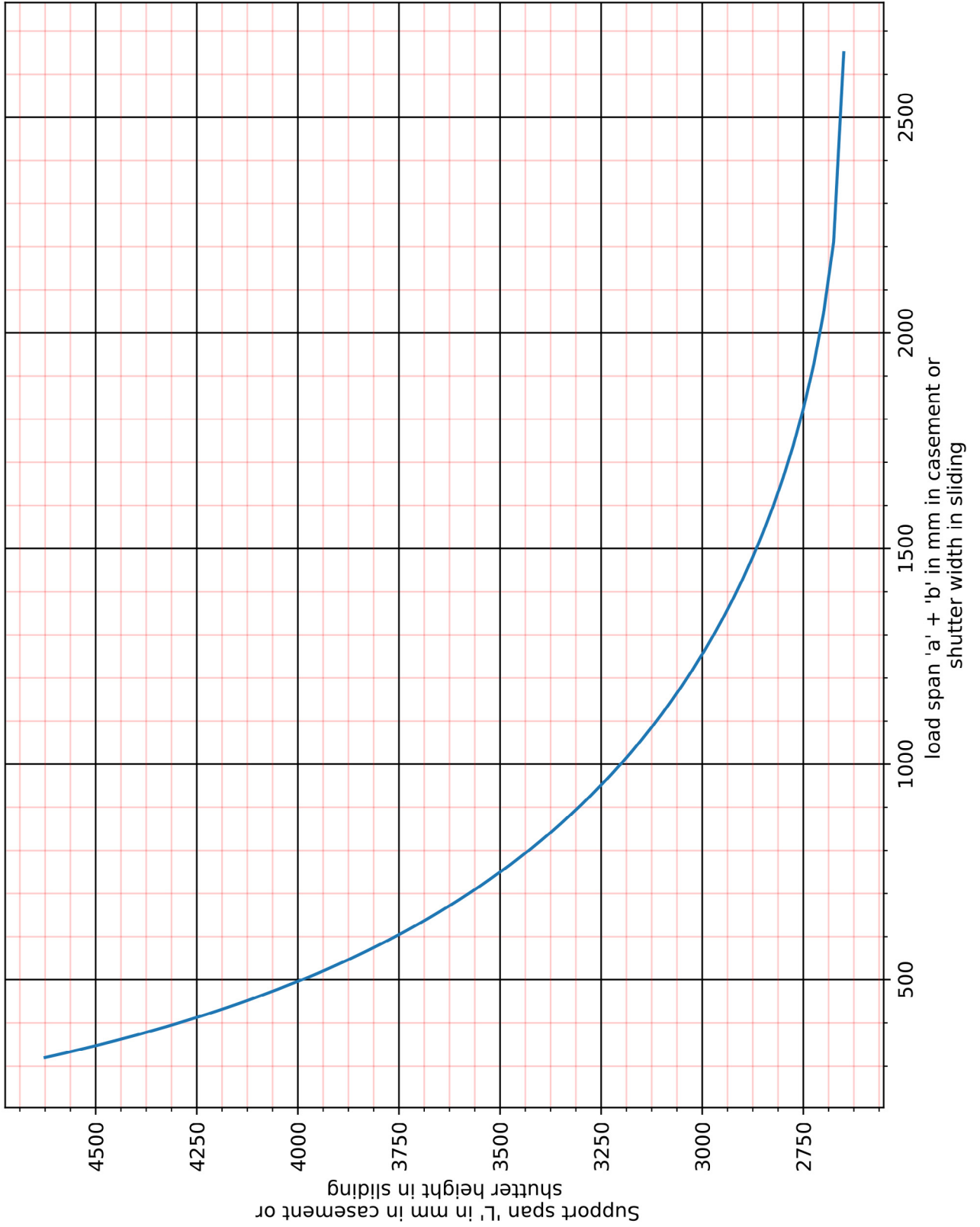
Size Selection Chart - CHART A - 2500 Pa
at 2500 Pa & EI = 14.71 x 10⁹ N-mm²



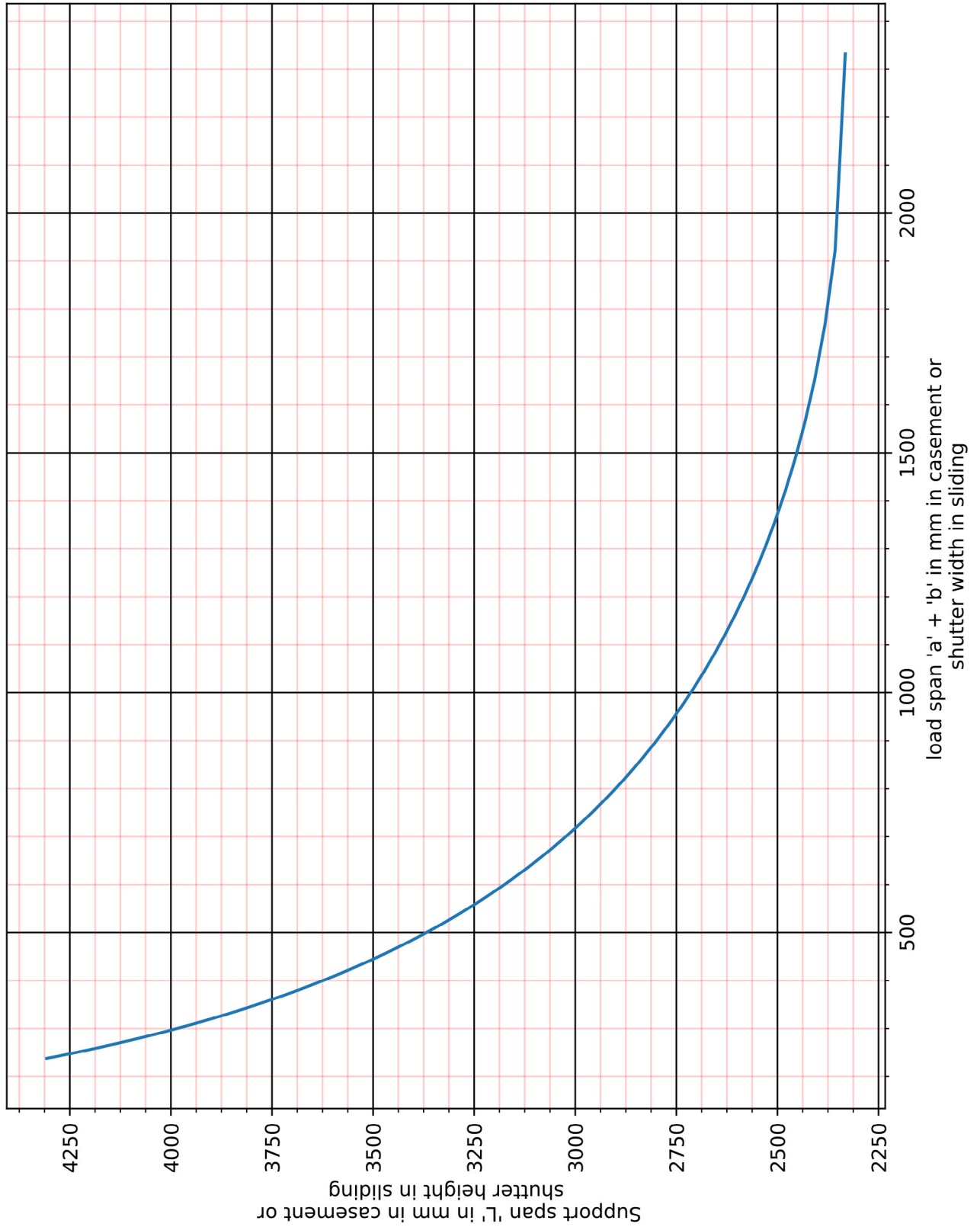
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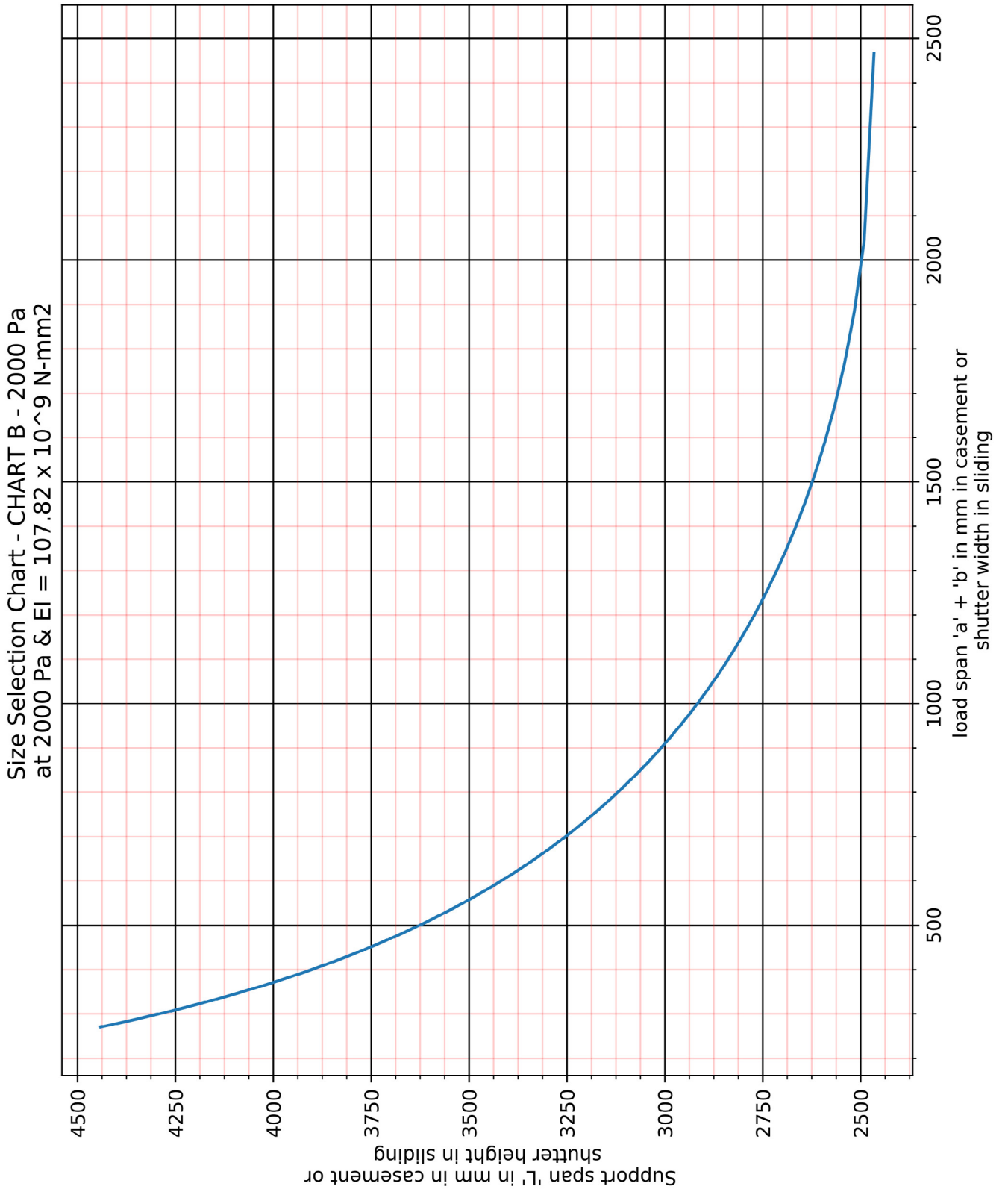


Size Selection Chart - CHART B - 1500 Pa
at 1500 Pa & EI = 107.82 x 10⁹ N-mm²

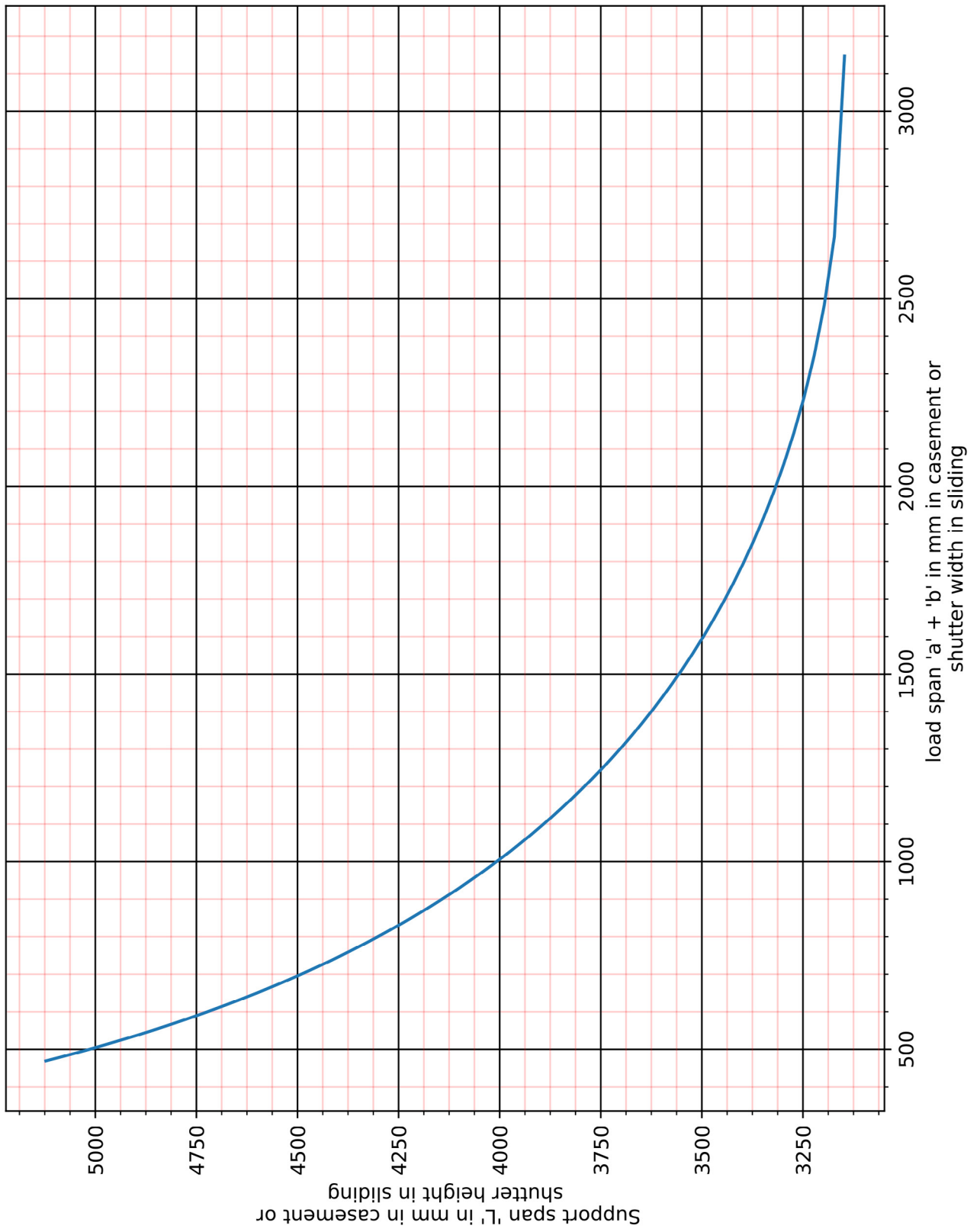


Size Selection Chart - CHART B - 2500 Pa
at 2500 Pa & EI = 107.82 x 10⁹ N-mm²

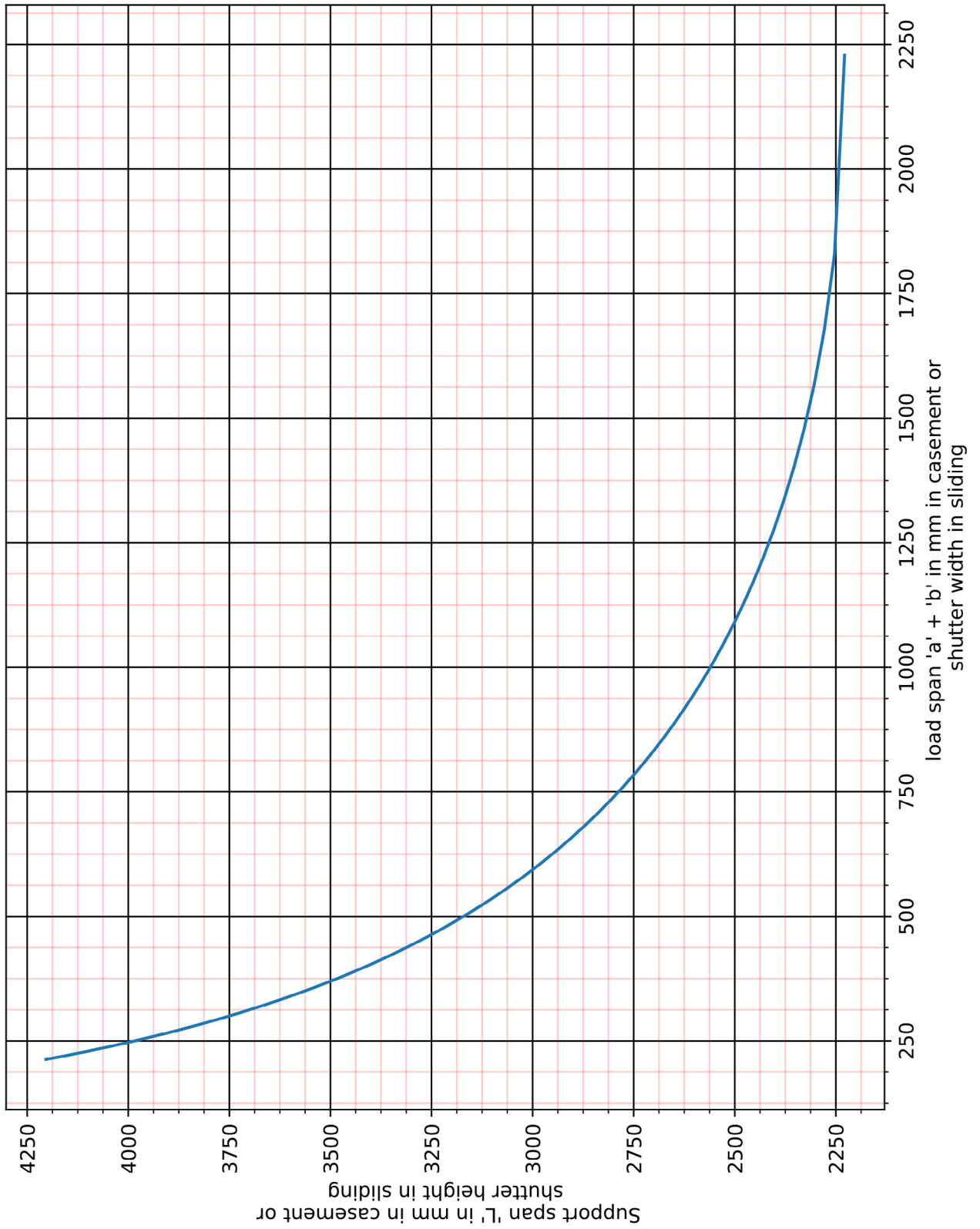




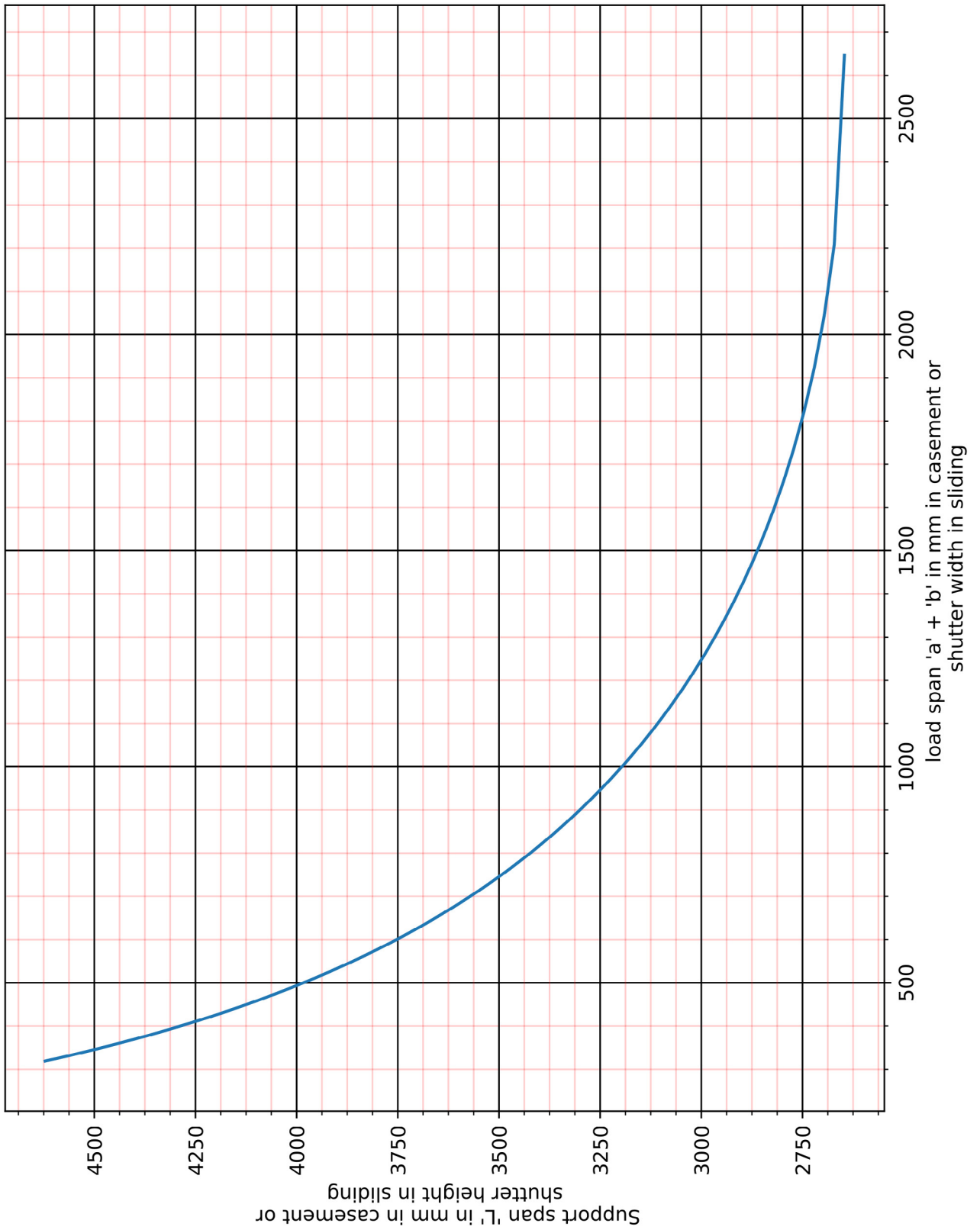
Size Selection Chart - CHART C - 1000 Pa
at 1000 Pa & EI = 143.0 x 10⁹ N-mm²



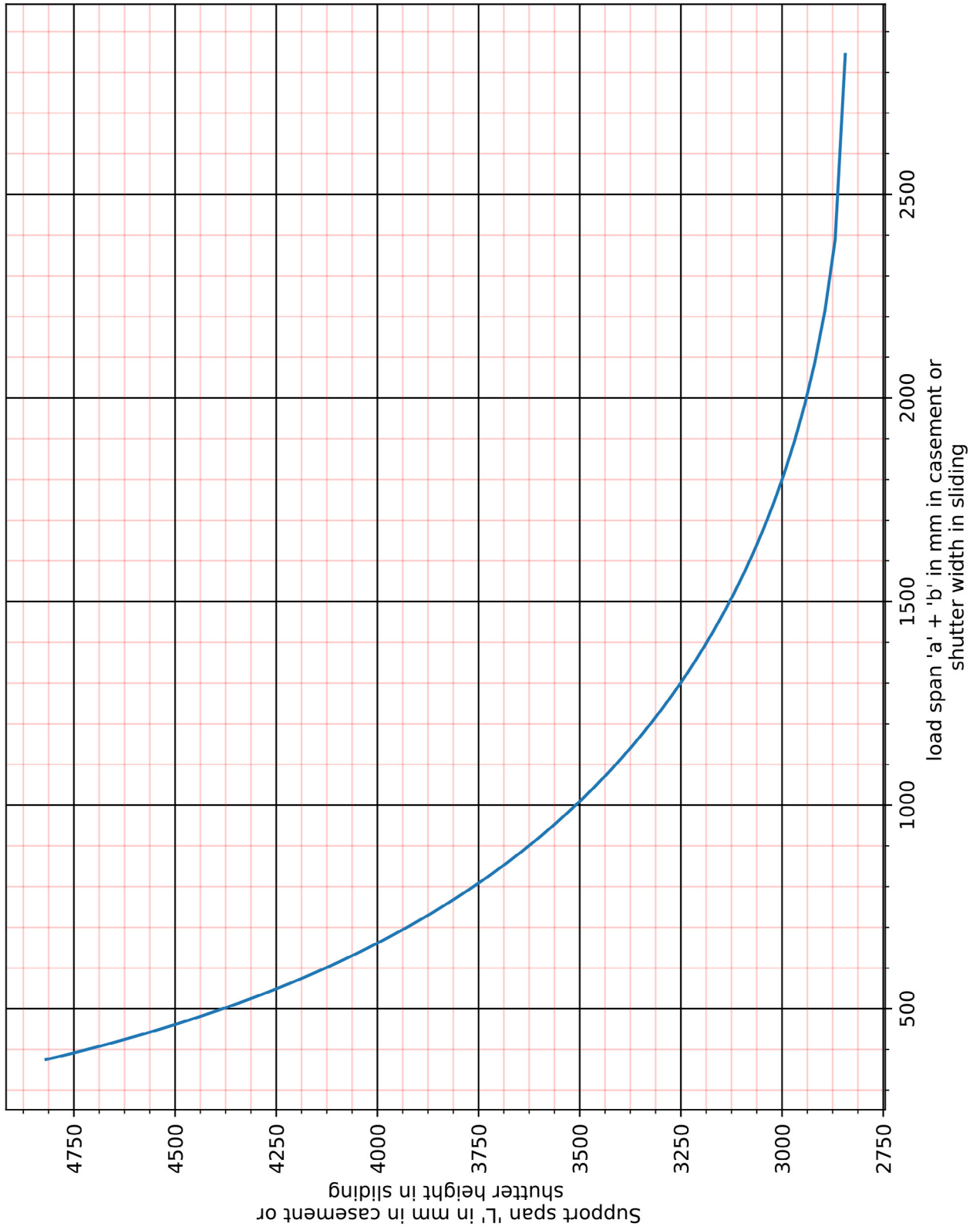
Size Selection Chart - CHART B - 3000 Pa
at 3000 Pa & EI = 107.82 x 10⁹ N-mm²



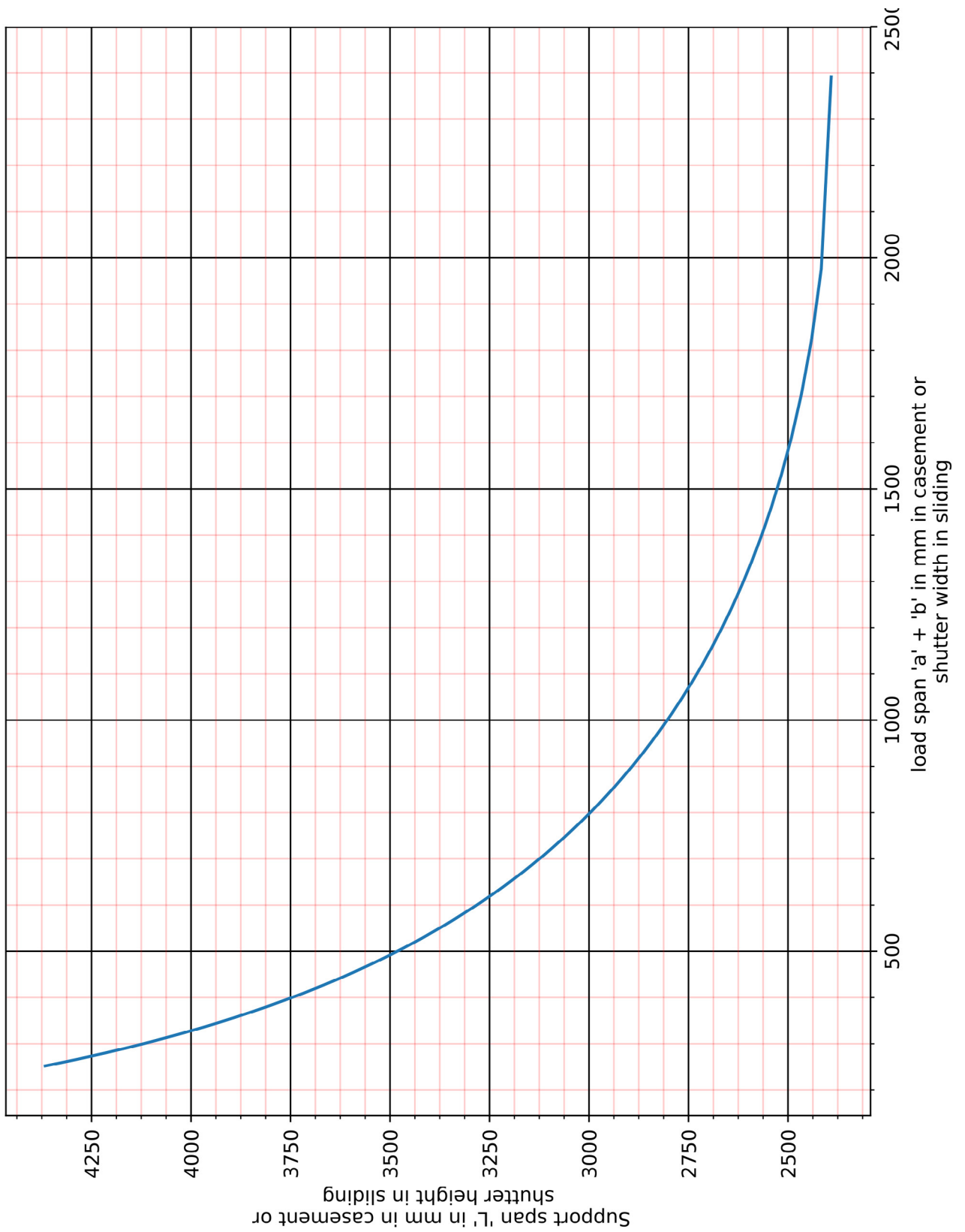
Size Selection Chart - CHART C - 2000 Pa
at 2000 Pa & EI = 143.0 x 10⁹ N-mm²



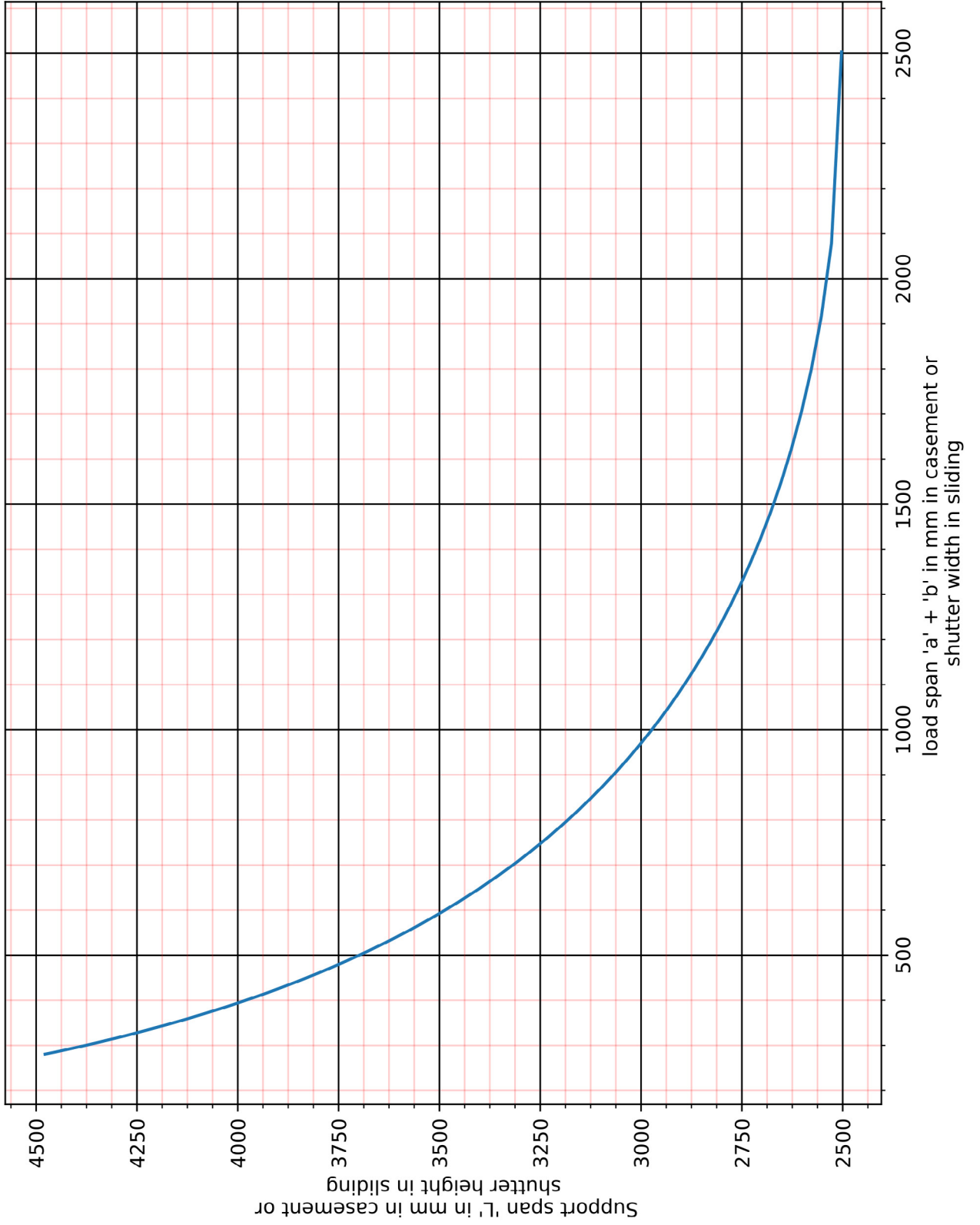
Size Selection Chart - CHART C - 1500 Pa
at 1500 Pa & EI = 143.0 x 10⁹ N-mm²



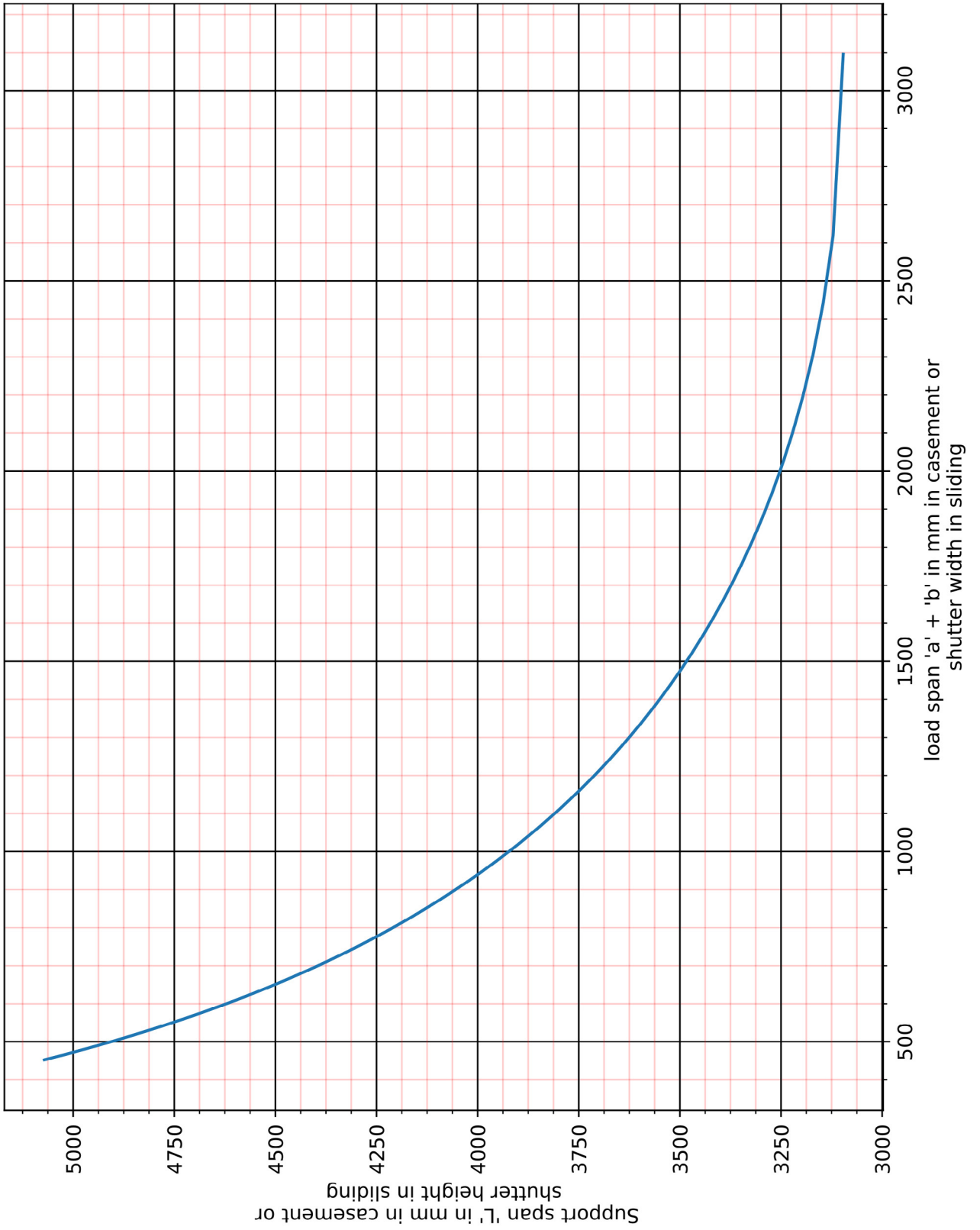
Size Selection Chart - CHART C - 3000 Pa
at 3000 Pa & EI = 143.0 x 10⁹ N-mm²



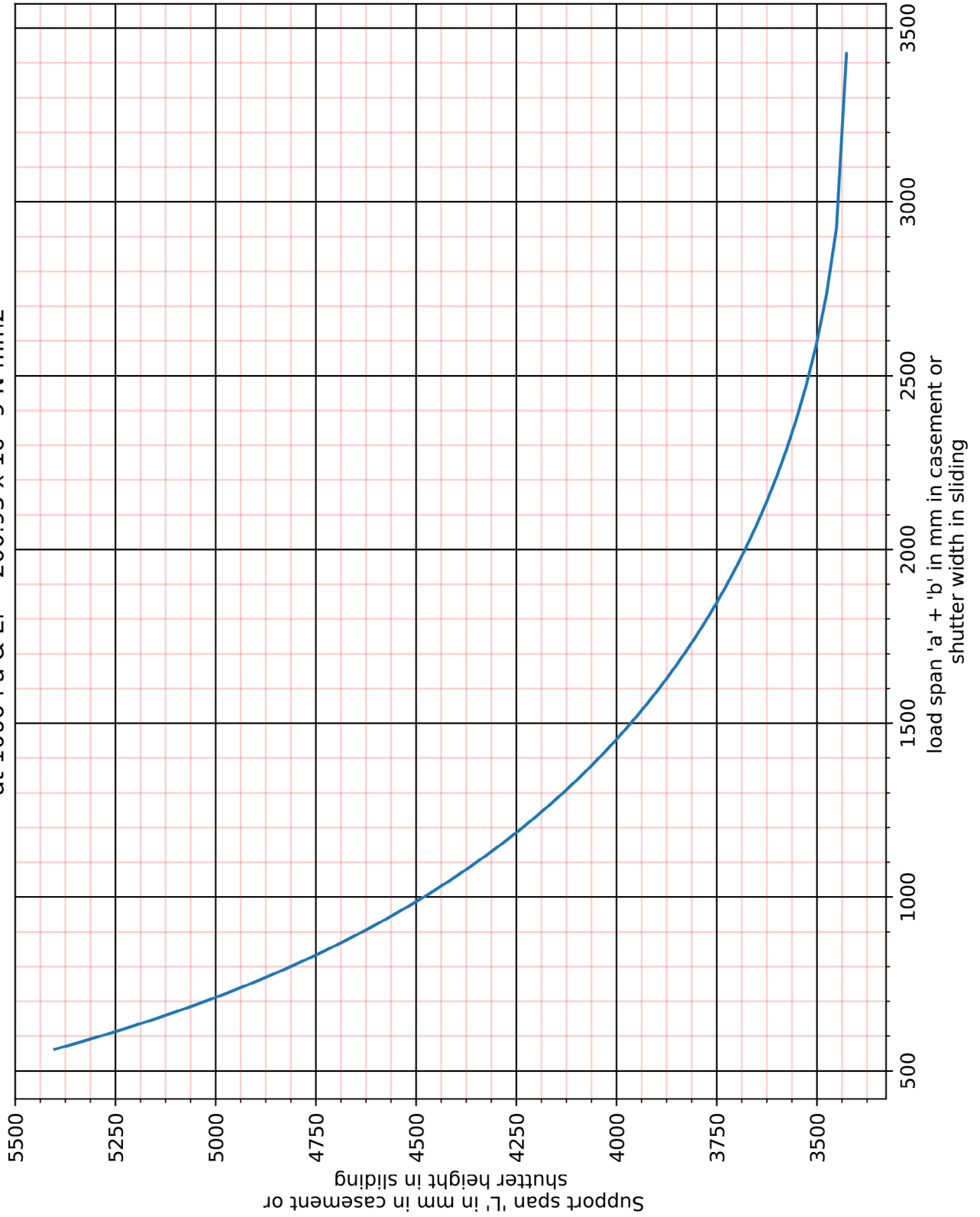
Size Selection Chart - CHART C - 2500 Pa
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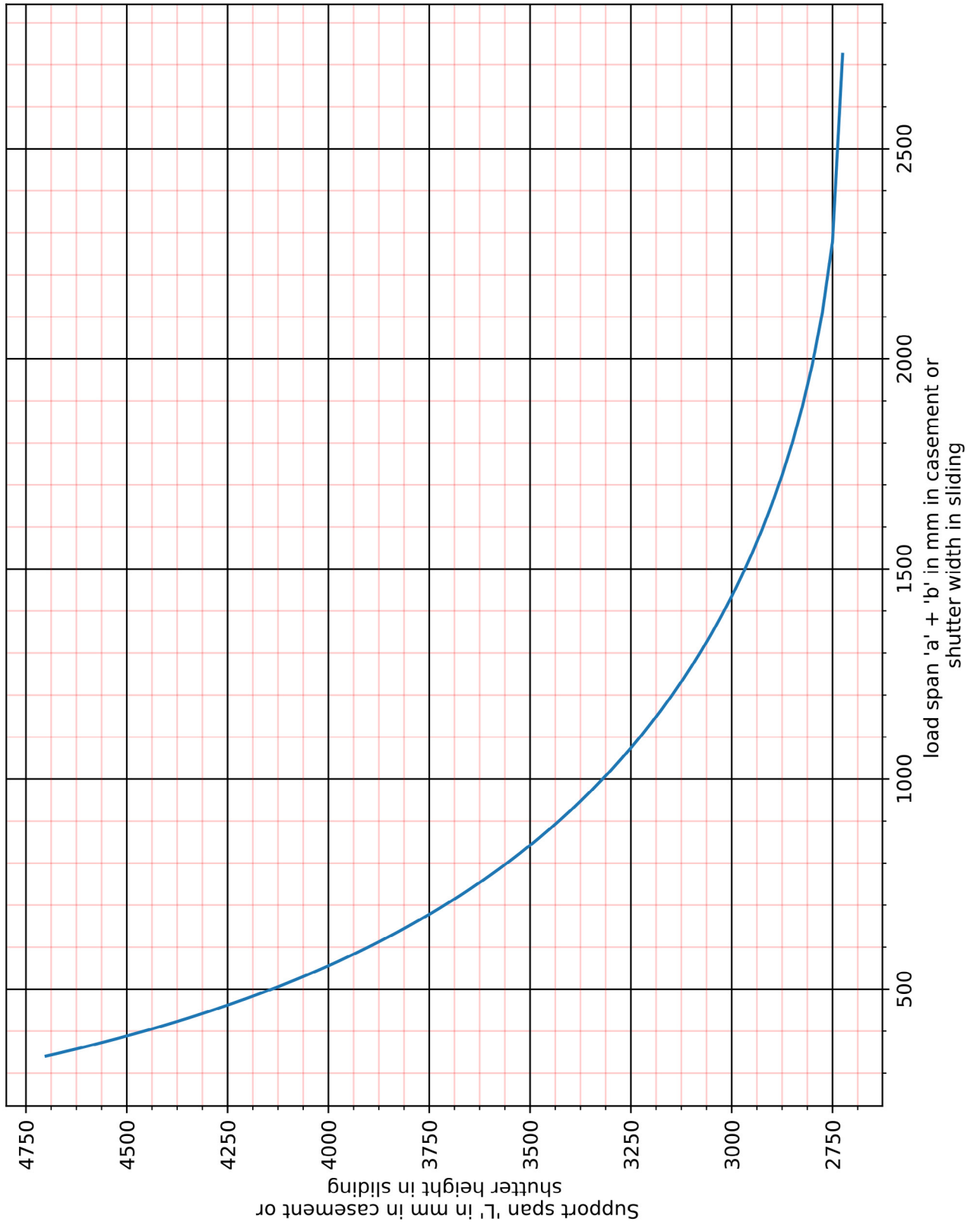
Size Selection Chart - GRAPH D - 1500 Pa
at 1500 Pa & EI = 200.93 x 10⁹ N-mm²



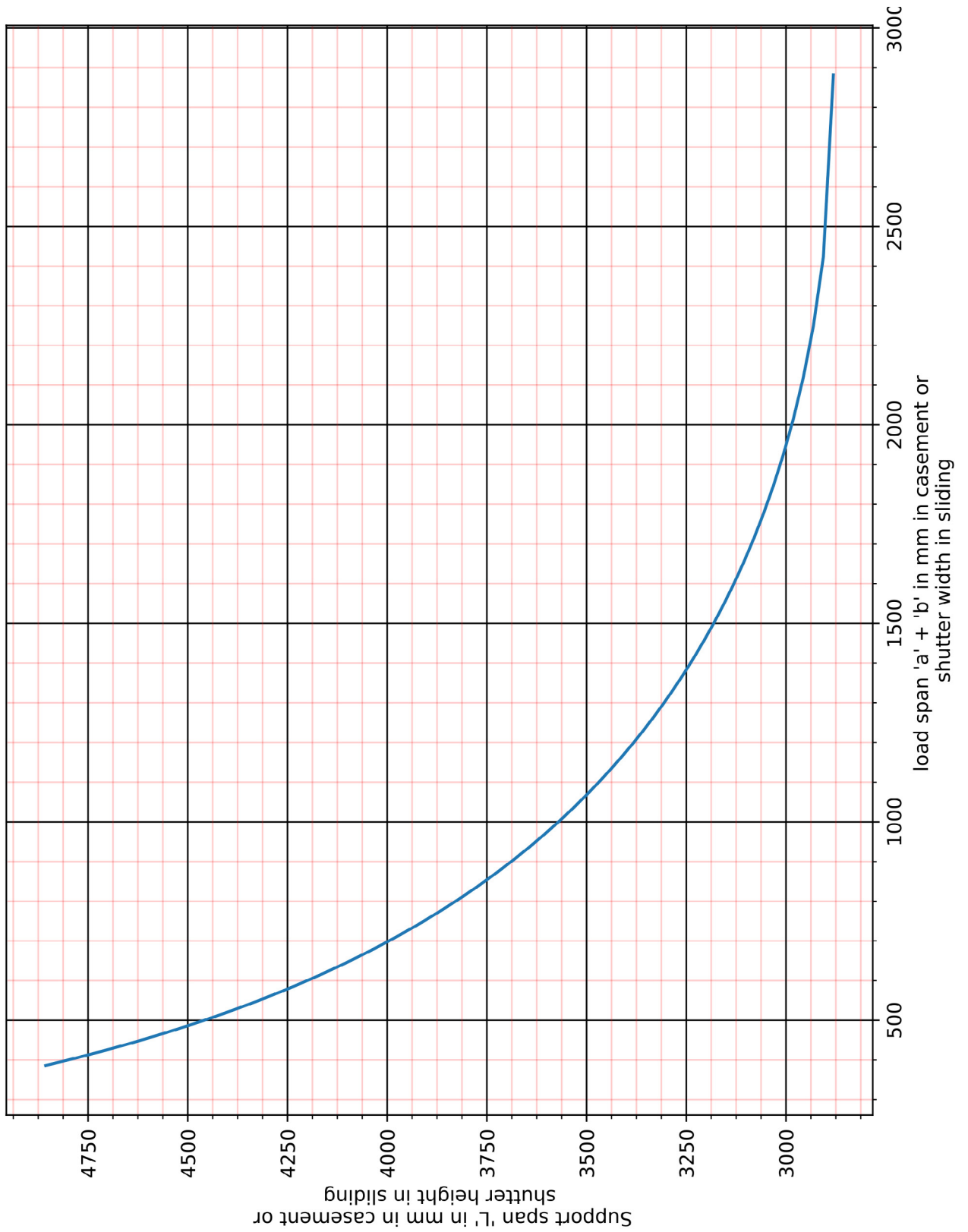
Size Selection Chart - GRAPH D - 1000 Pa
at 1000 Pa & EI = 200.93 x 10⁹ N-mm²



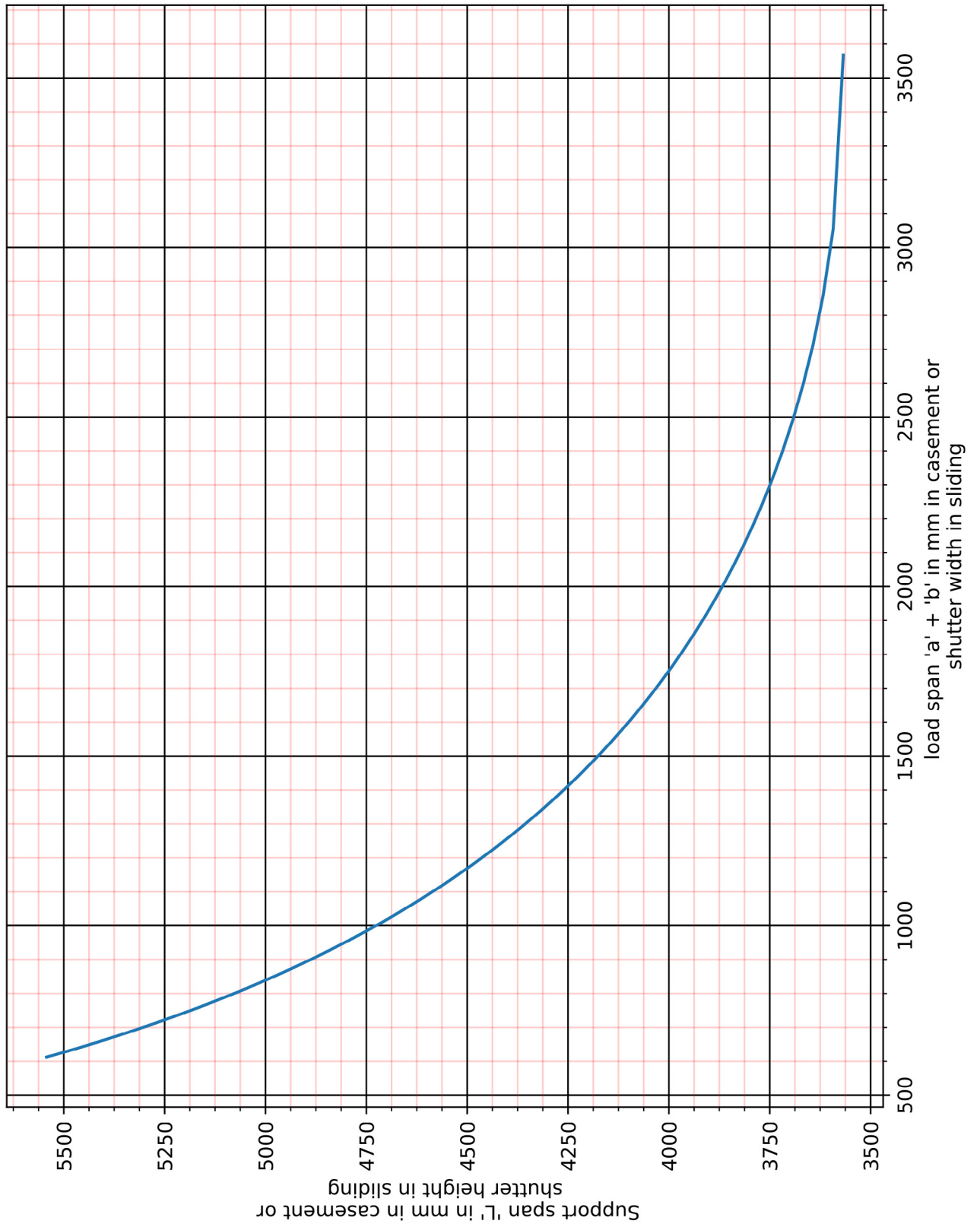
Size Selection Chart - GRAPH D - 2500 Pa
at 2500 Pa & EI = 200.93 x 10⁹ N-mm²



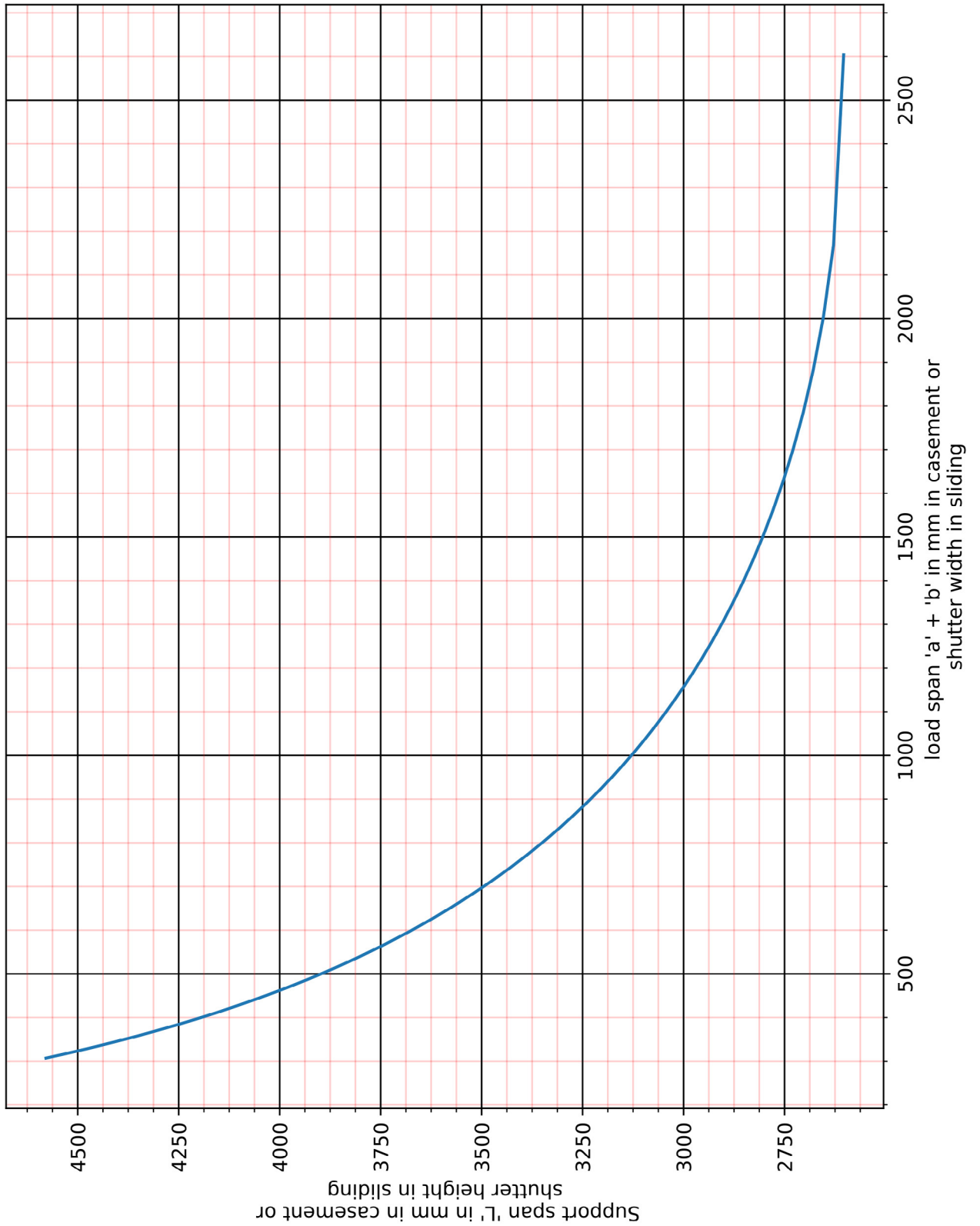
Size Selection Chart - GRAPH D - 2000 Pa
at 2000 Pa & EI = 200.93 x 10⁹ N-mm²



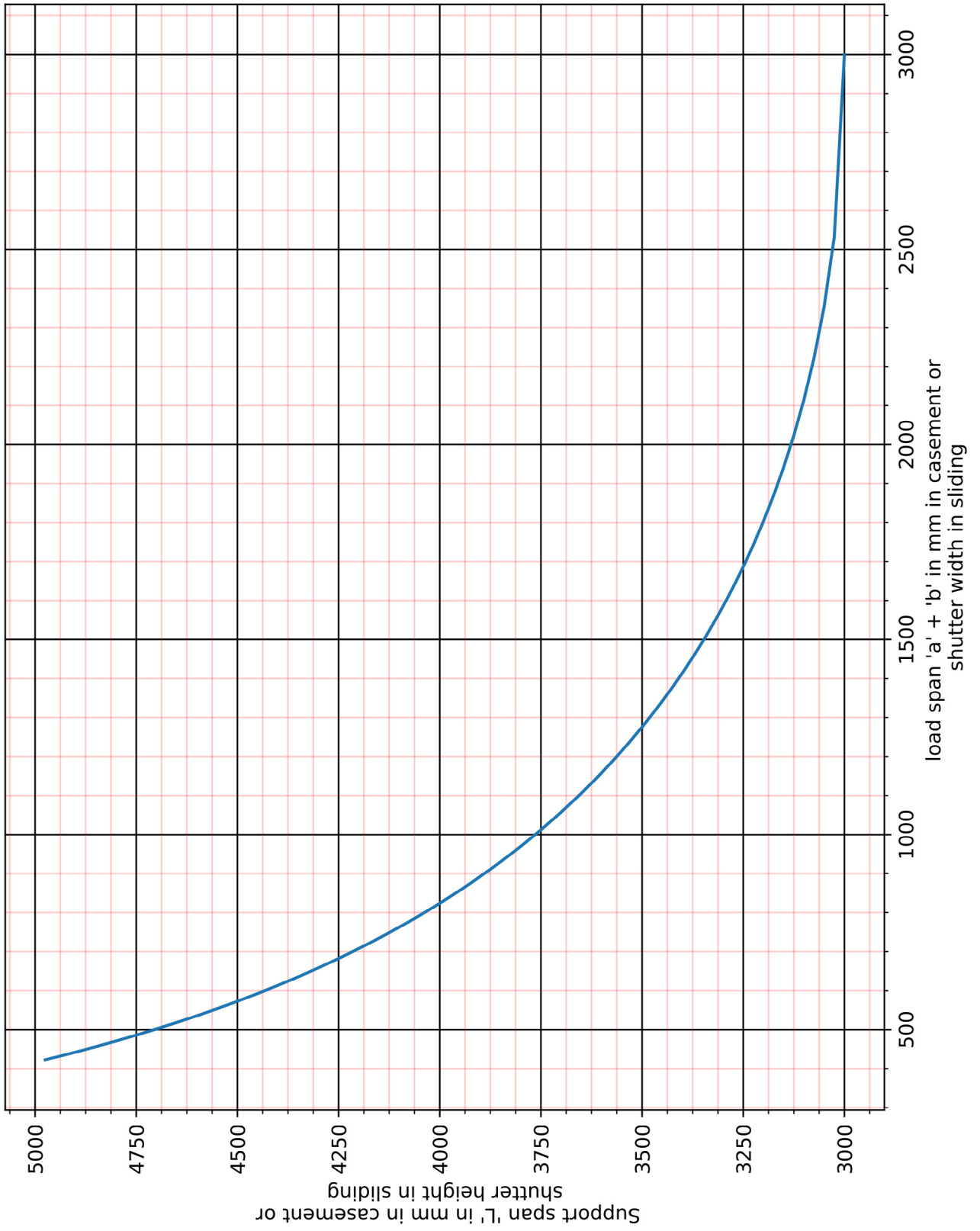
Size Selection Chart - CHART E - 1000 Pa
at 1000 Pa & EI = 236.17 x 10⁹ N-mm²



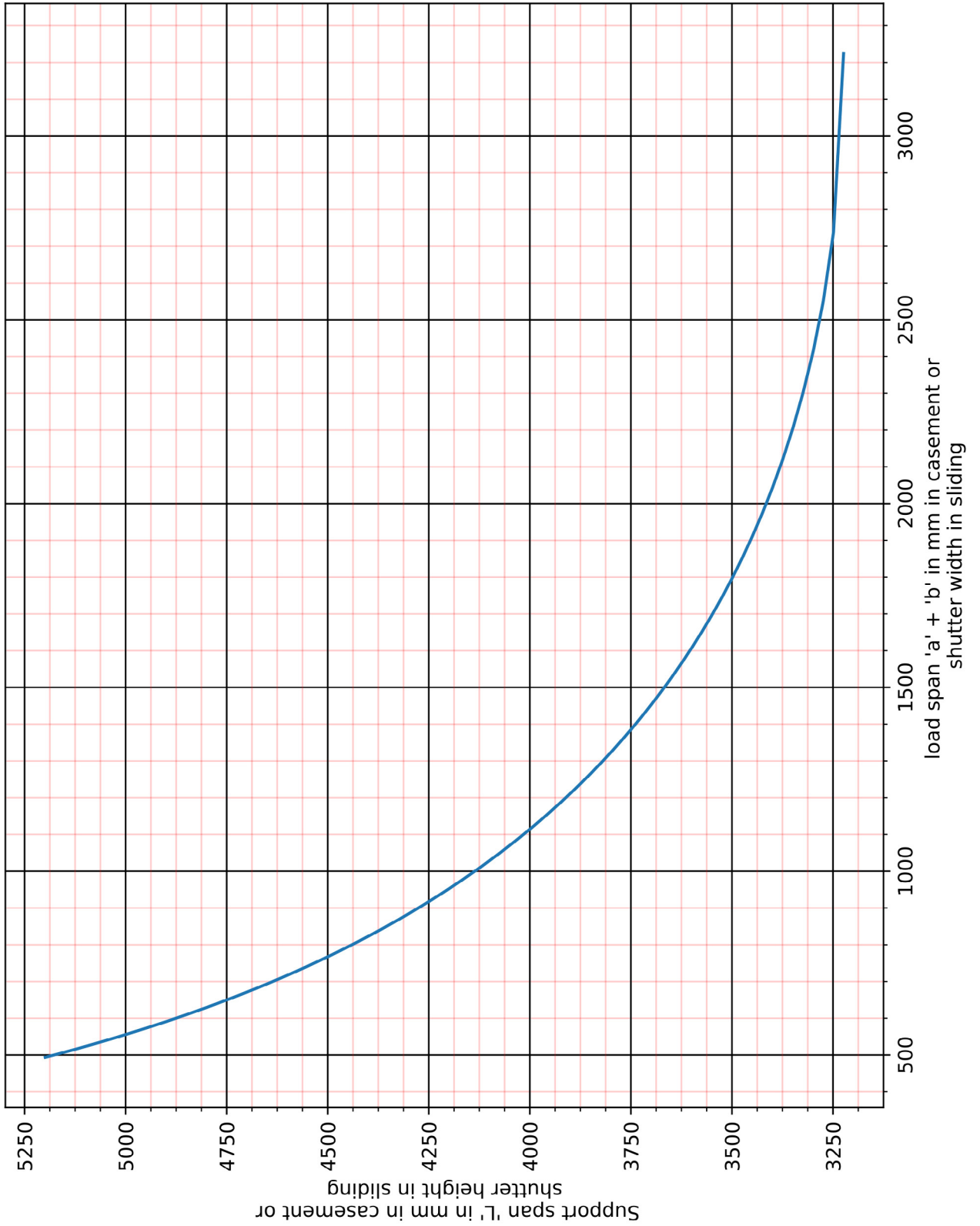
Size Selection Chart - GRAPH D - 3000 Pa
at 3000 Pa & EI = 200.93 x 10⁹ N-mm²



Size Selection Chart - CHART E - 2000 Pa
at 2000 Pa & EI = 236.17 x 10⁹ N-mm²

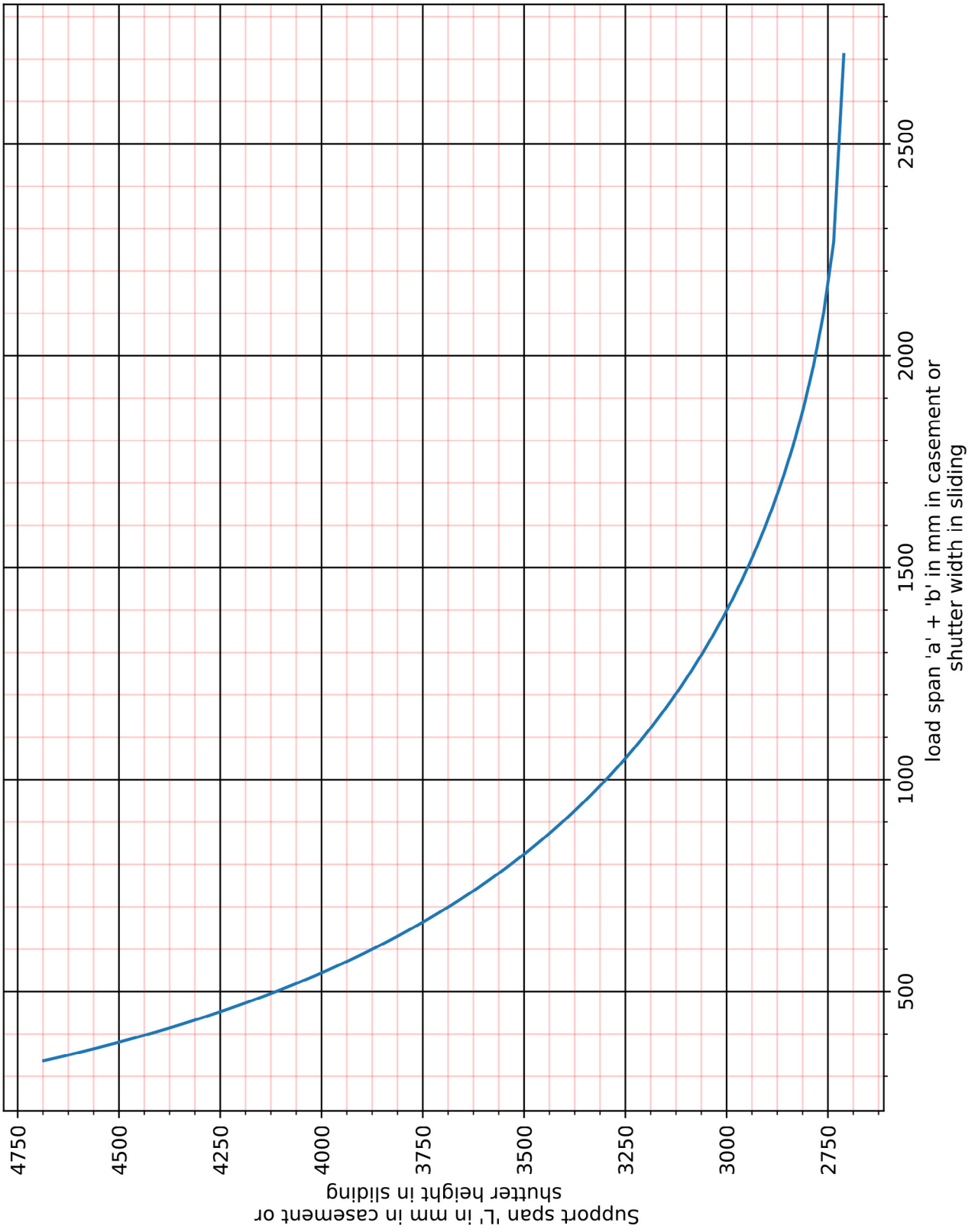


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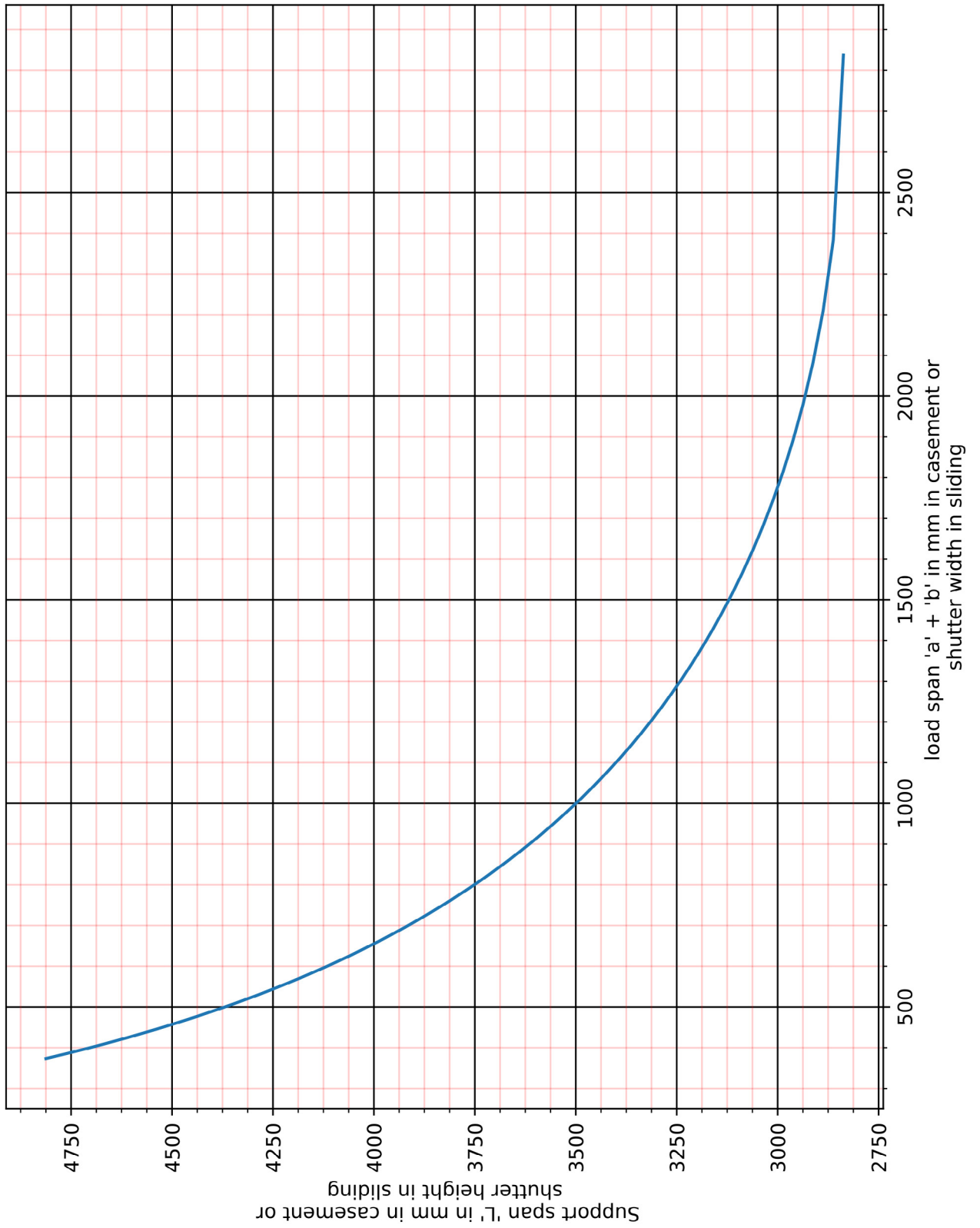


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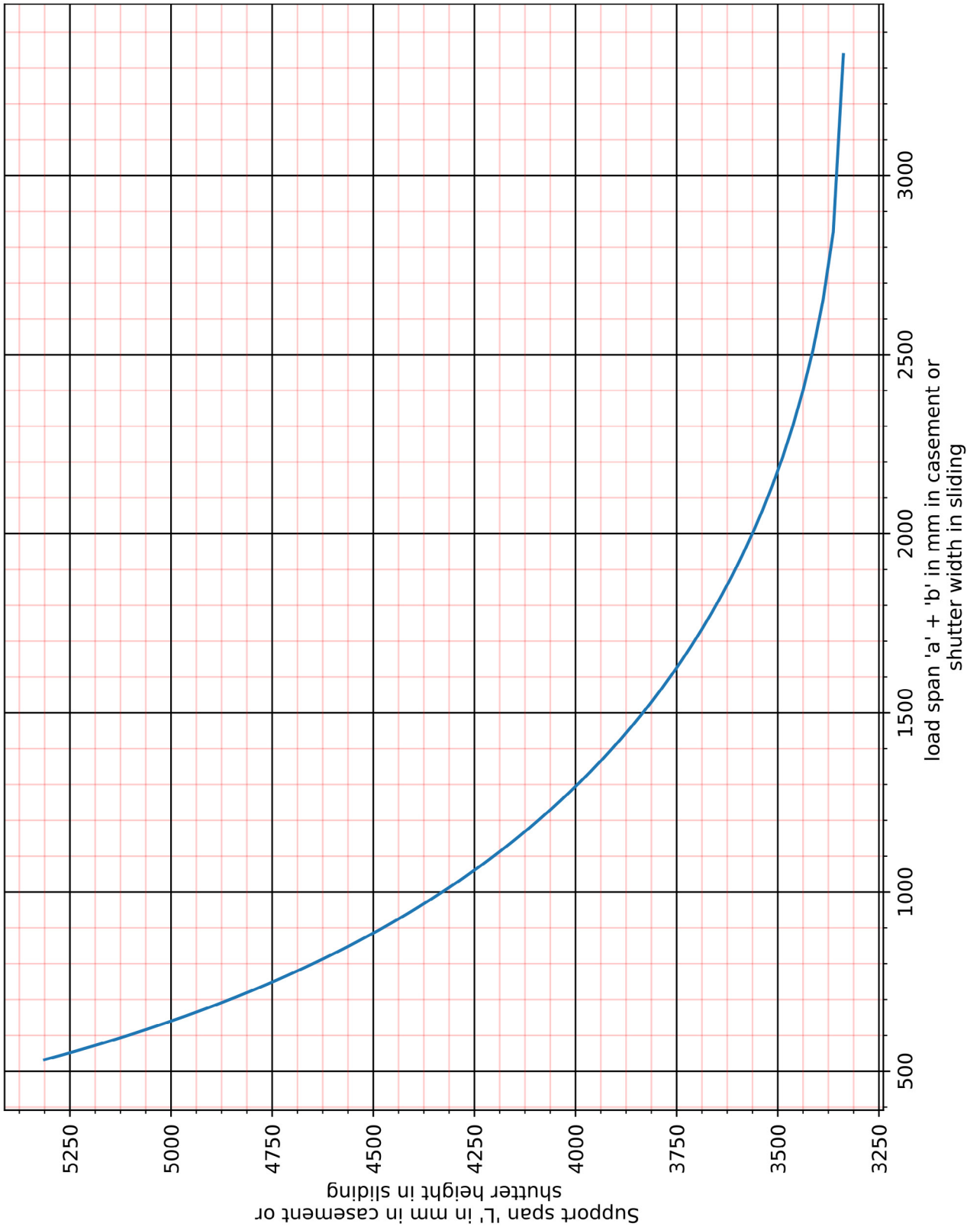
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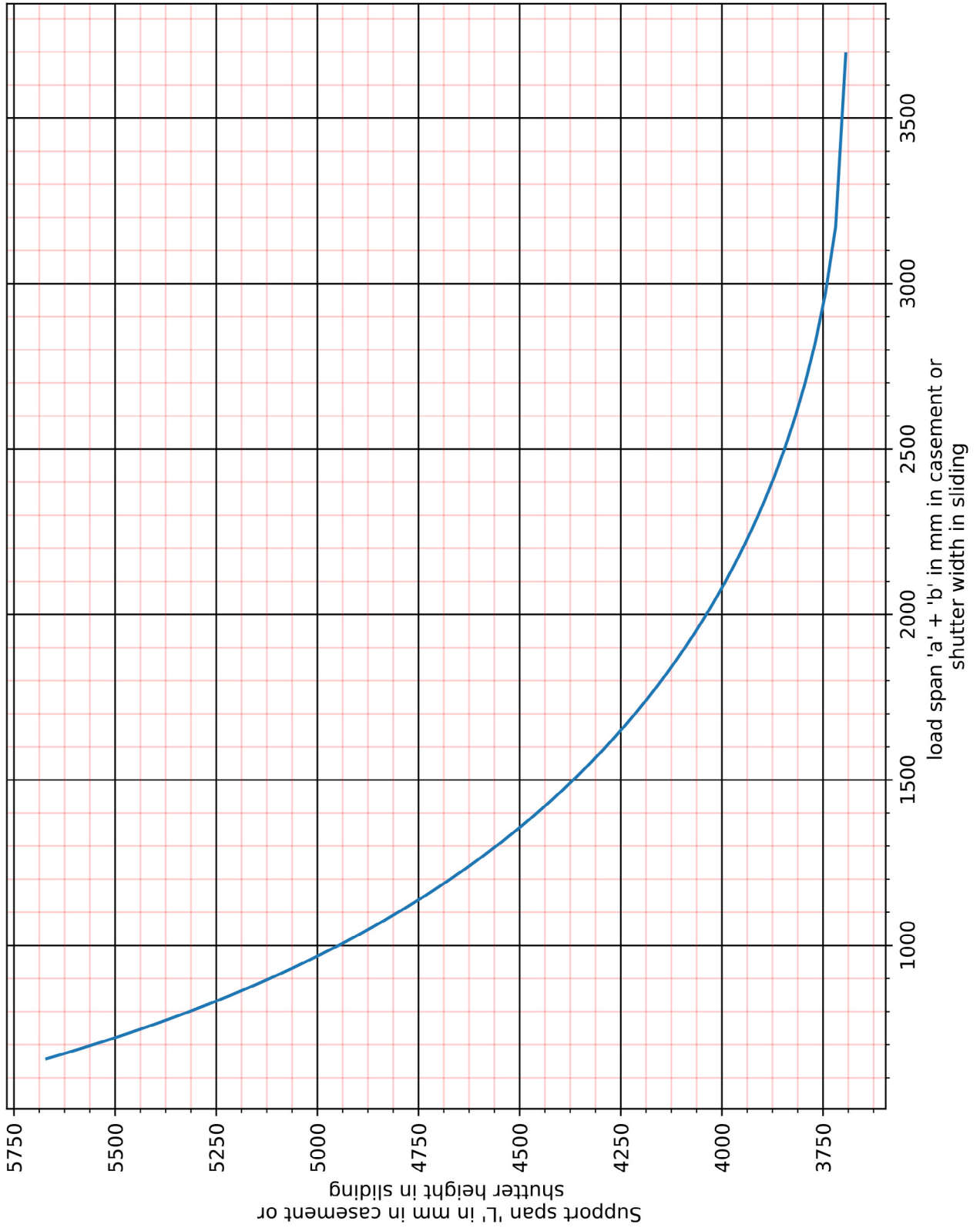
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at 2500 Pa & EI = 236.17 x 10⁹ N-mm²



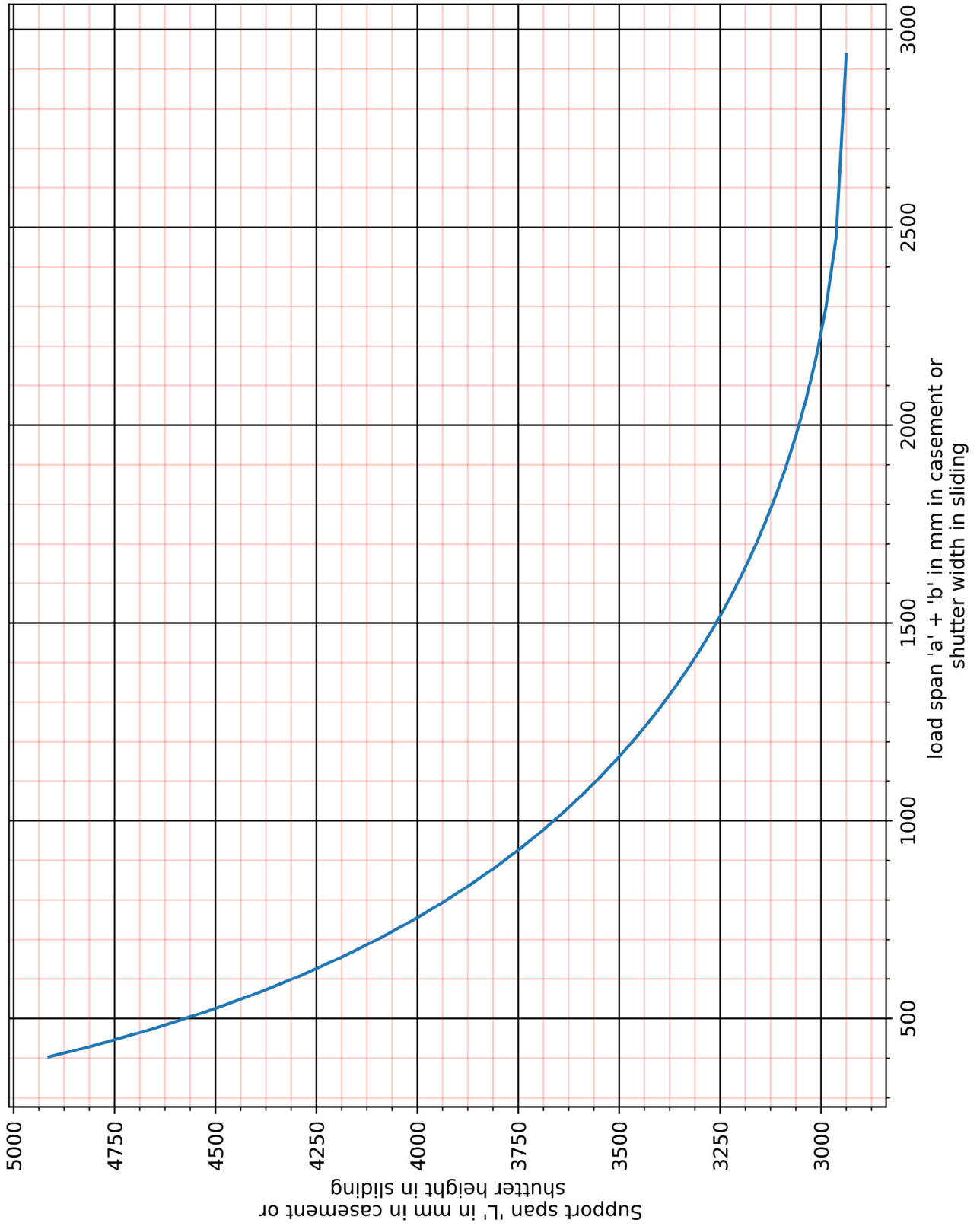
Size Selection Chart - GRAPH F - 1500 Pa
at 1500 Pa & EI = 271.41 x 10⁹ N-mm²



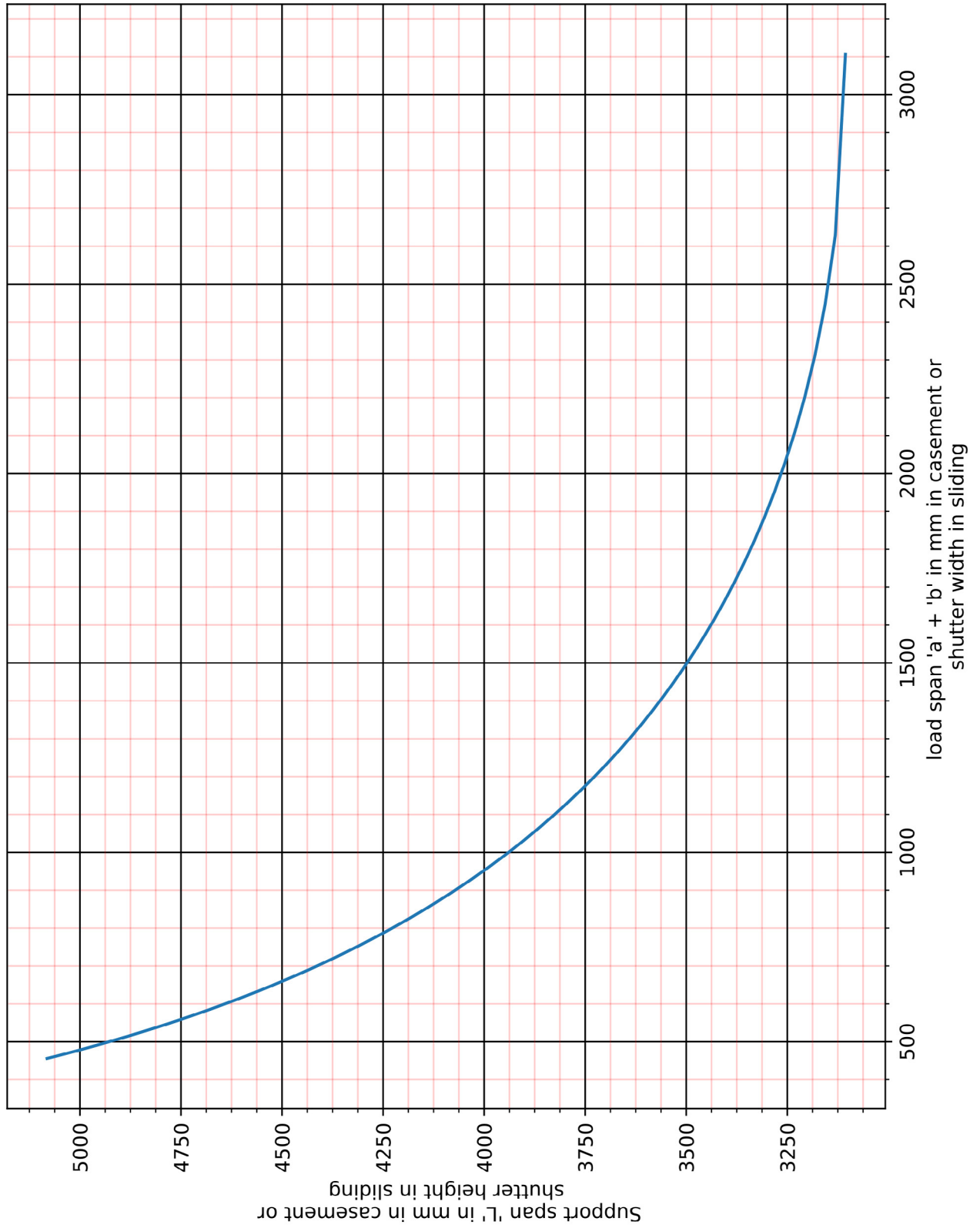
Size Selection Chart - CHART F - 1000 Pa
at 1000 Pa & EI = 271.41 x 10⁹ N-mm²



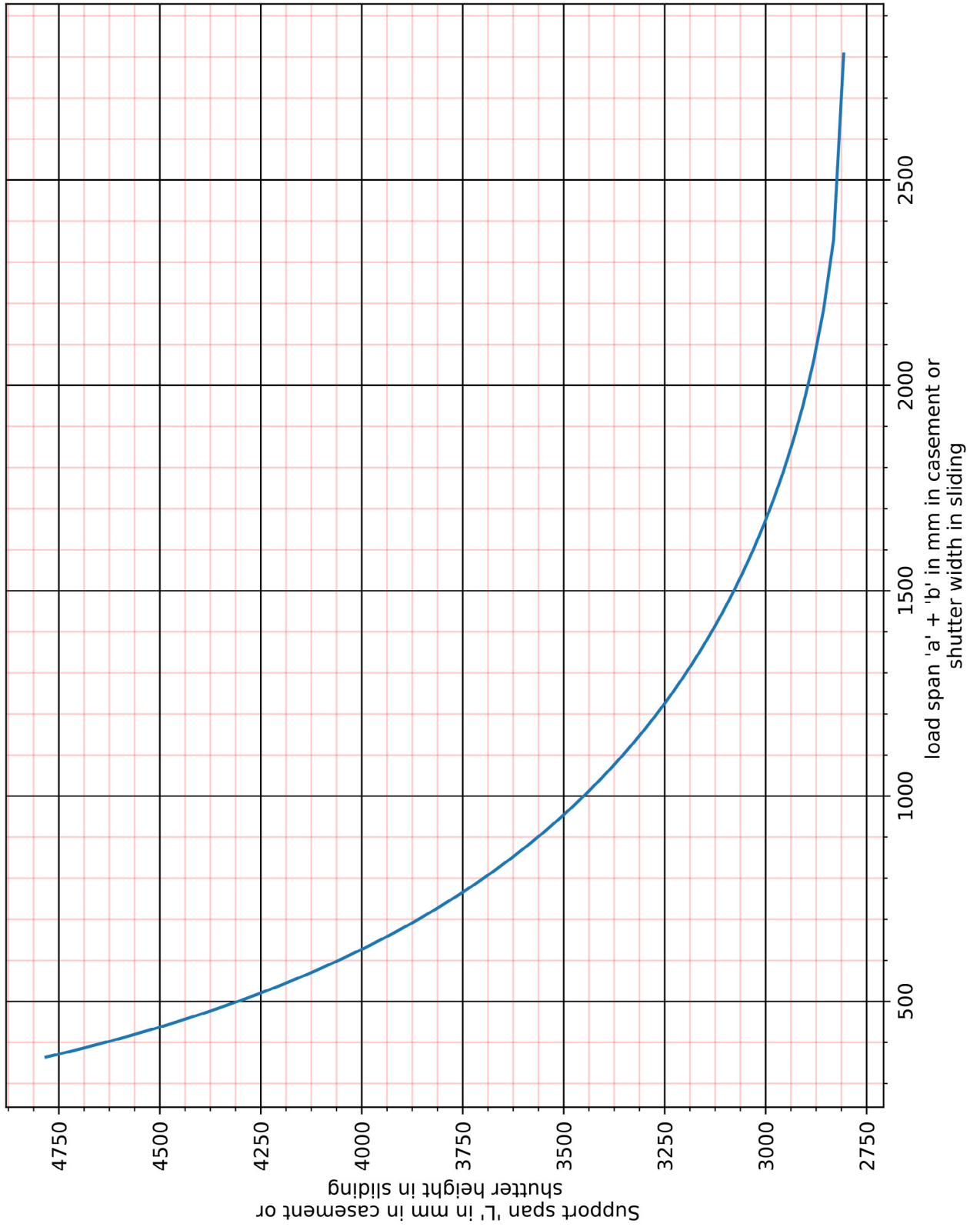
Size Selection Chart - CHART F - 2500 Pa
at 2500 Pa & EI = 271.41 x 10⁹ N-mm²



Size Selection Chart - CHART F - 2000 Pa
at 2000 Pa & EI = 271.41 x 10⁹ N-mm²

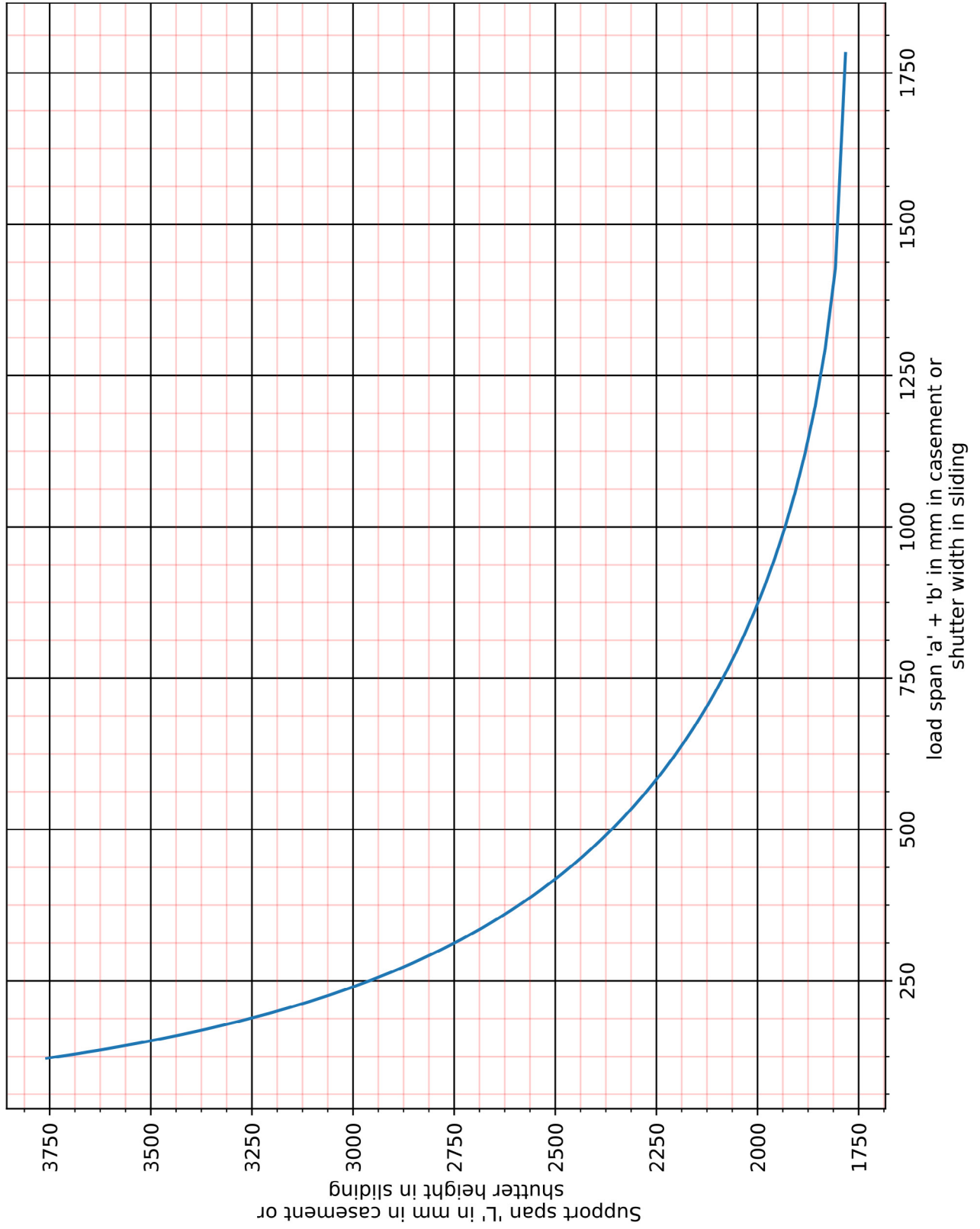


Size Selection Chart - CHART F - 3000 Pa
at 3000 Pa & EI = 271.41 x 10⁹ N-mm²

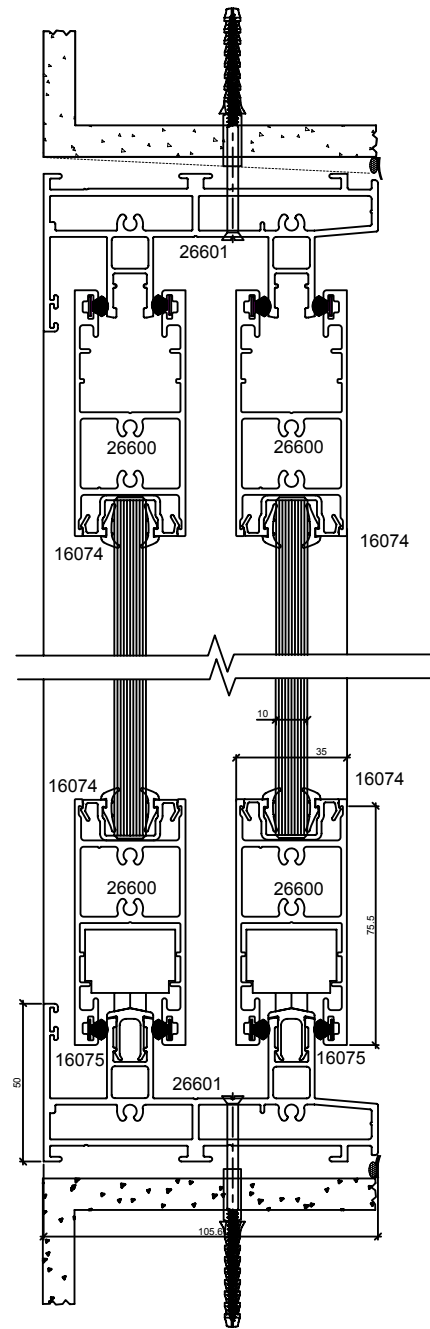
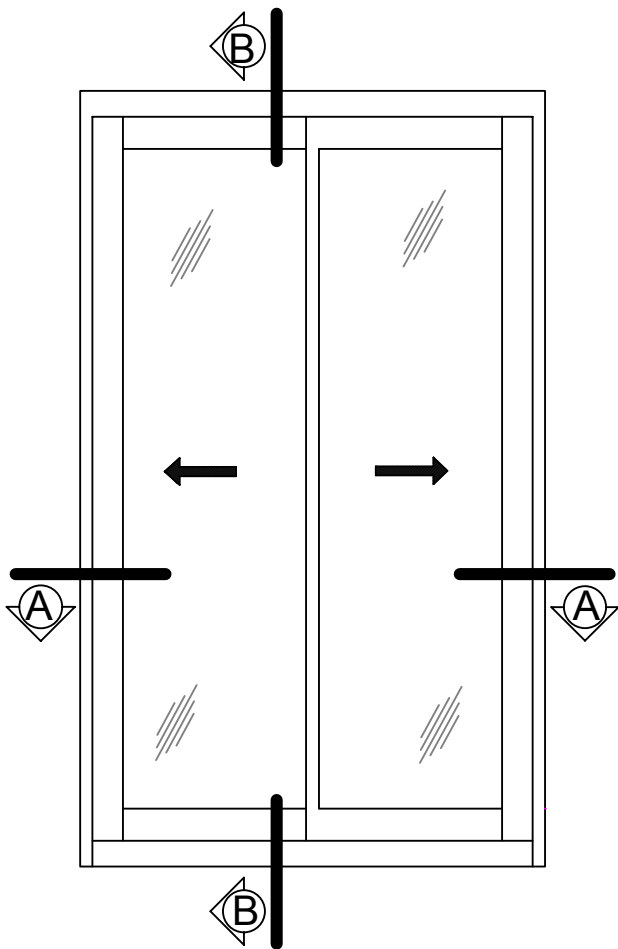


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Size Selection Chart - CHART - A - 1000 Pa
at 1000 Pa & EI = 14.71 x 10⁹ N-mm²

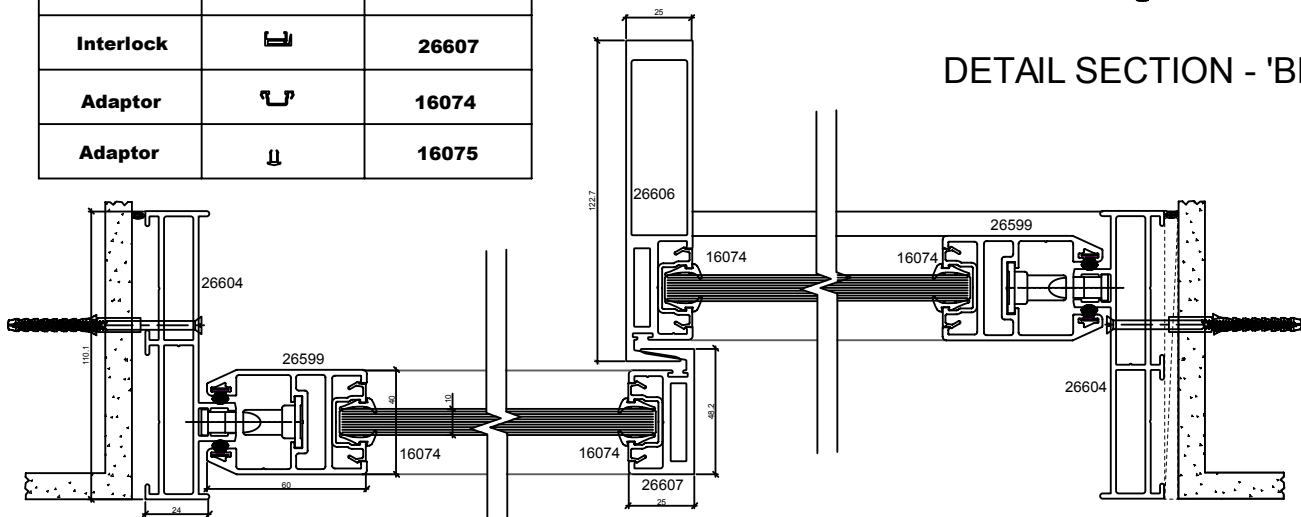


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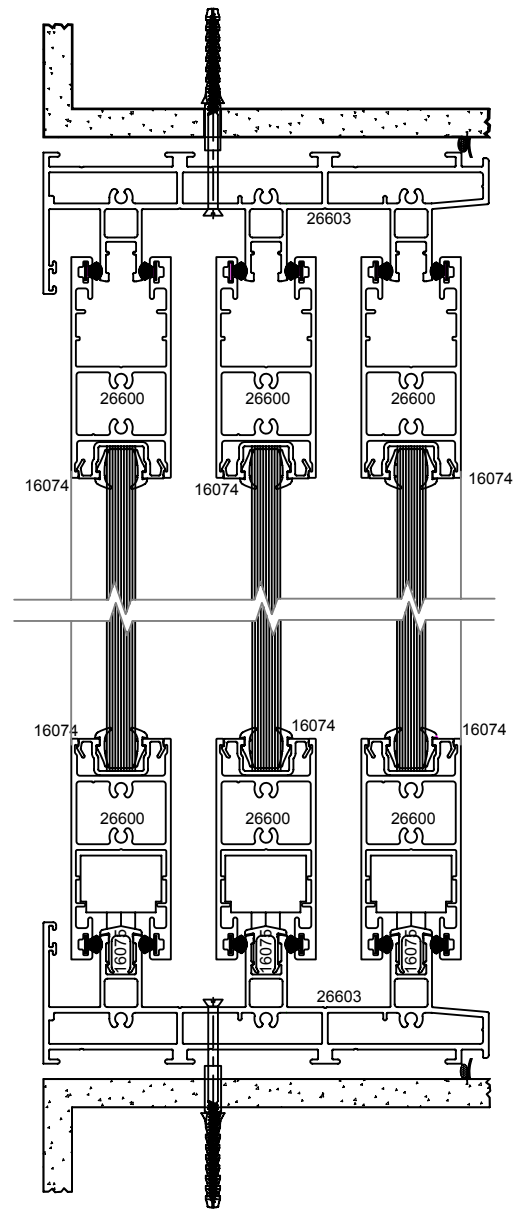
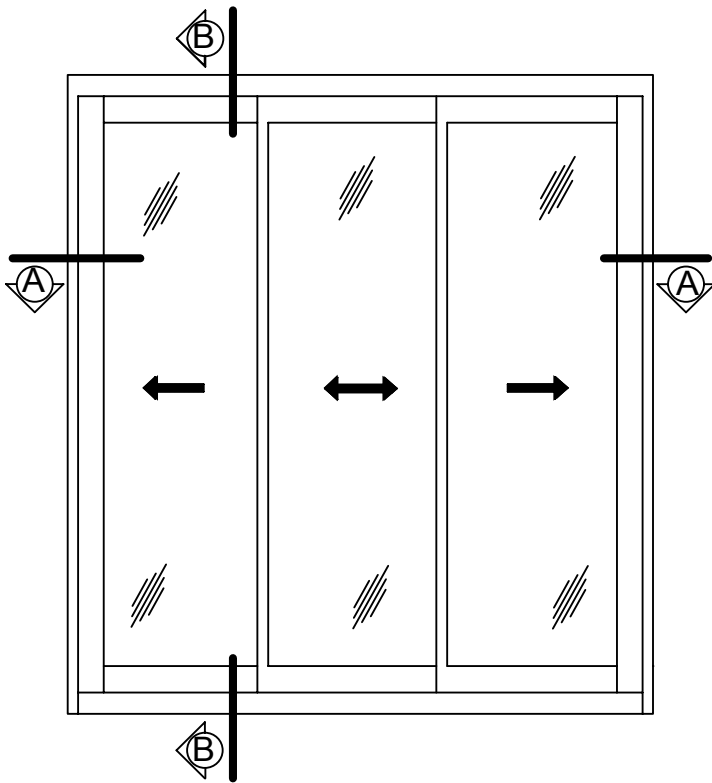
DETAIL SECTION - 'BB'

PROFILES		
Description	Shape	Section No.
Frame side		26604
Frame Bottom		26601
Bottom Sash		26600
Side Sash		26599
Interlock		26606
Interlock		26607
Adaptor		16074
Adaptor		16075



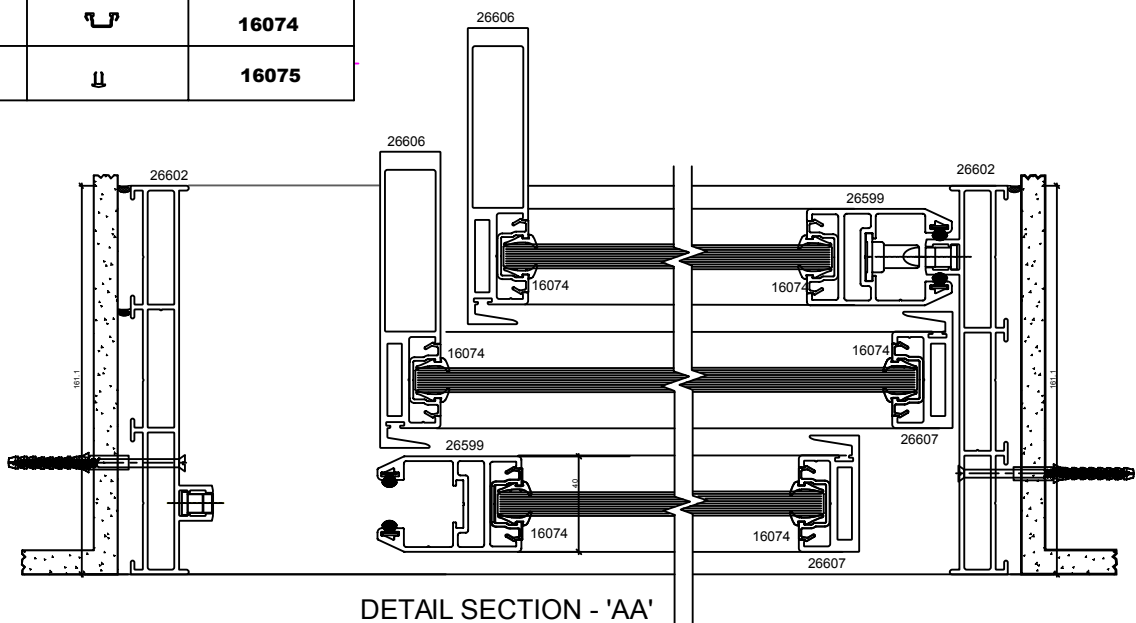
DETAIL SECTION - 'AA'

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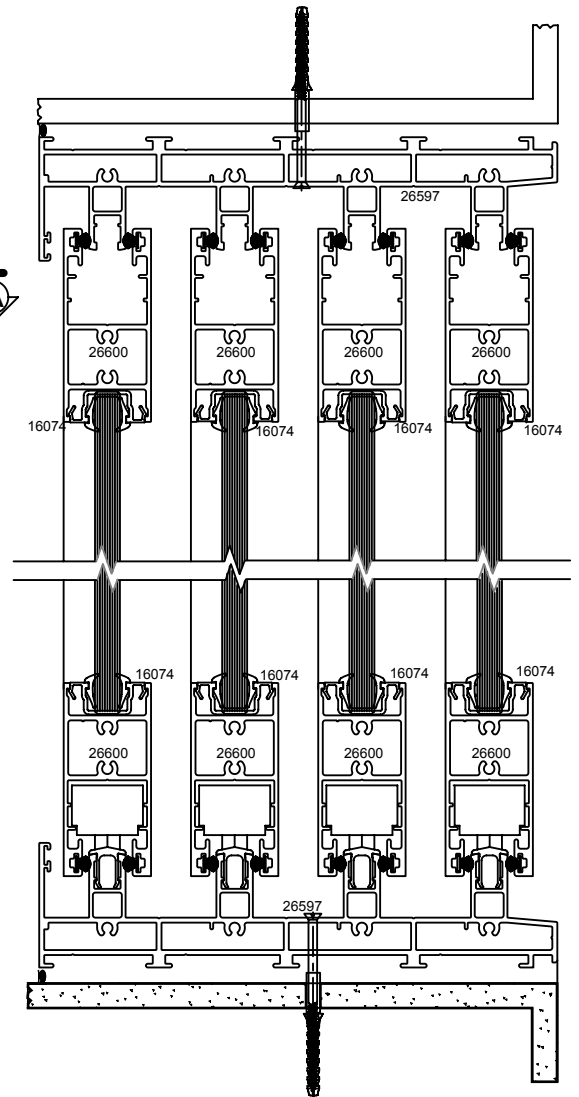
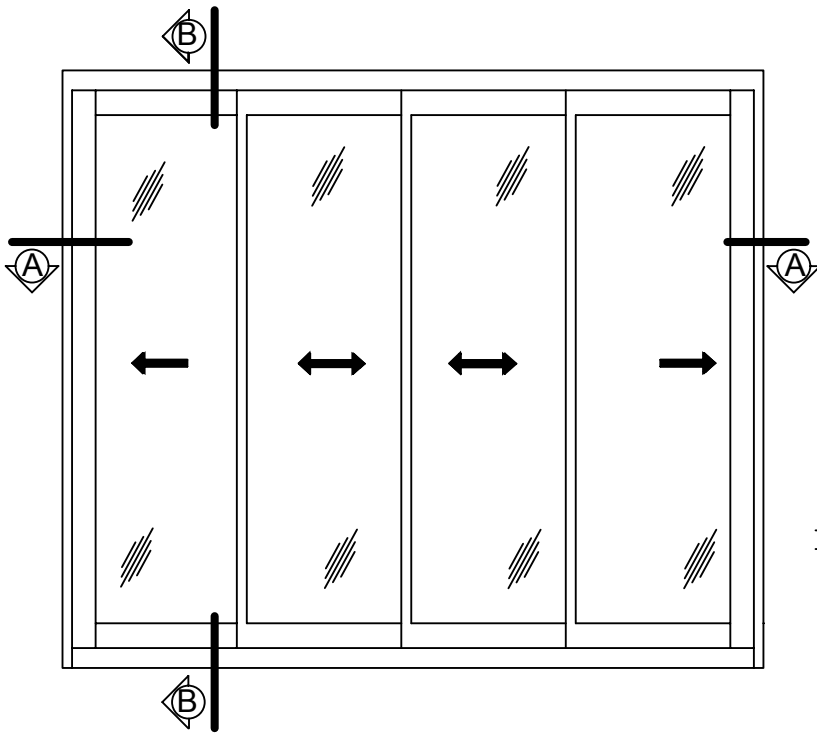
DETAIL SECTION - 'BB'

PROFILES		
Description	Shape	Section No.
Frame side		26602
Frame Bottom		26603
Bottom Sash		26600
Side Sash		26599
Interlock		26606
Interlock		26607
Adaptor		16074
Adaptor		16075



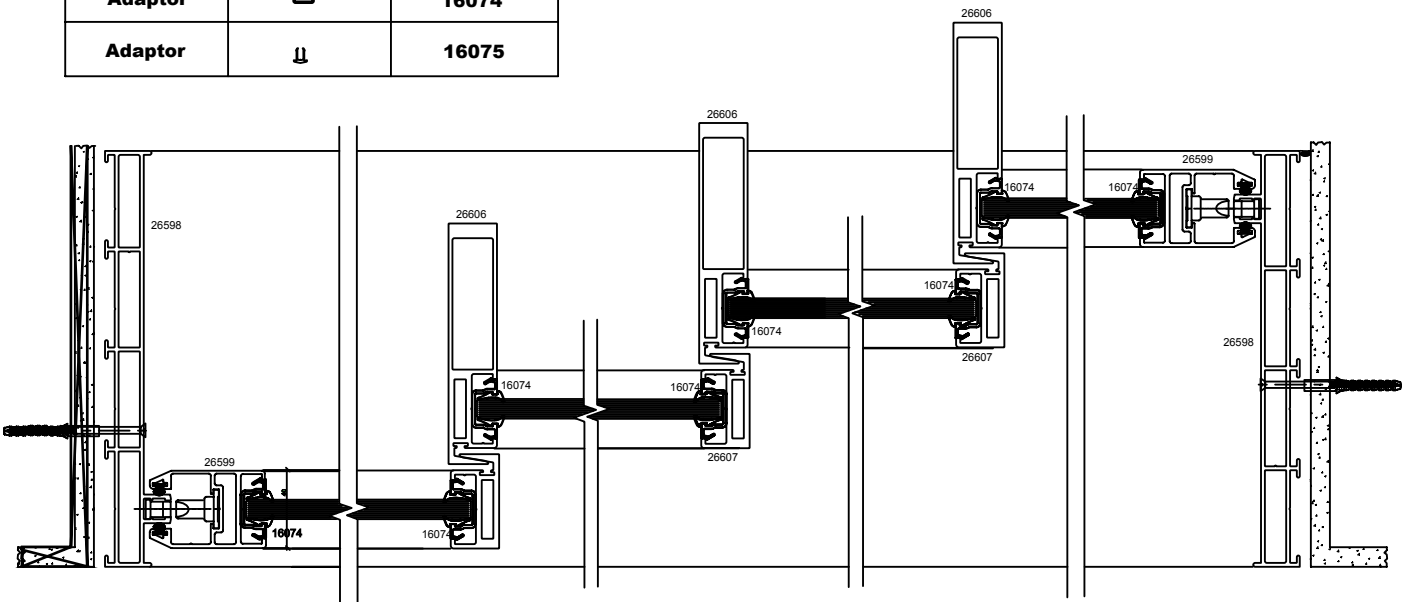
DETAIL SECTION - 'AA'

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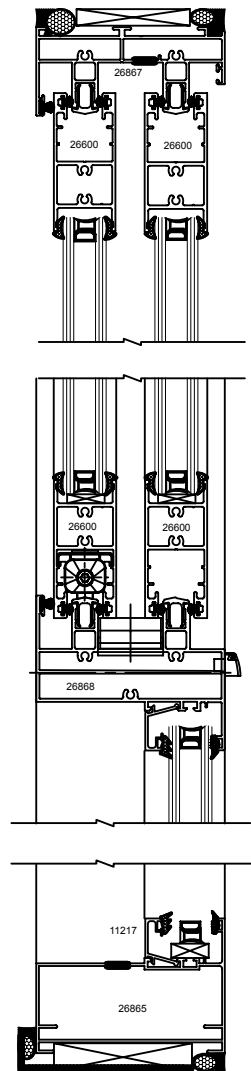
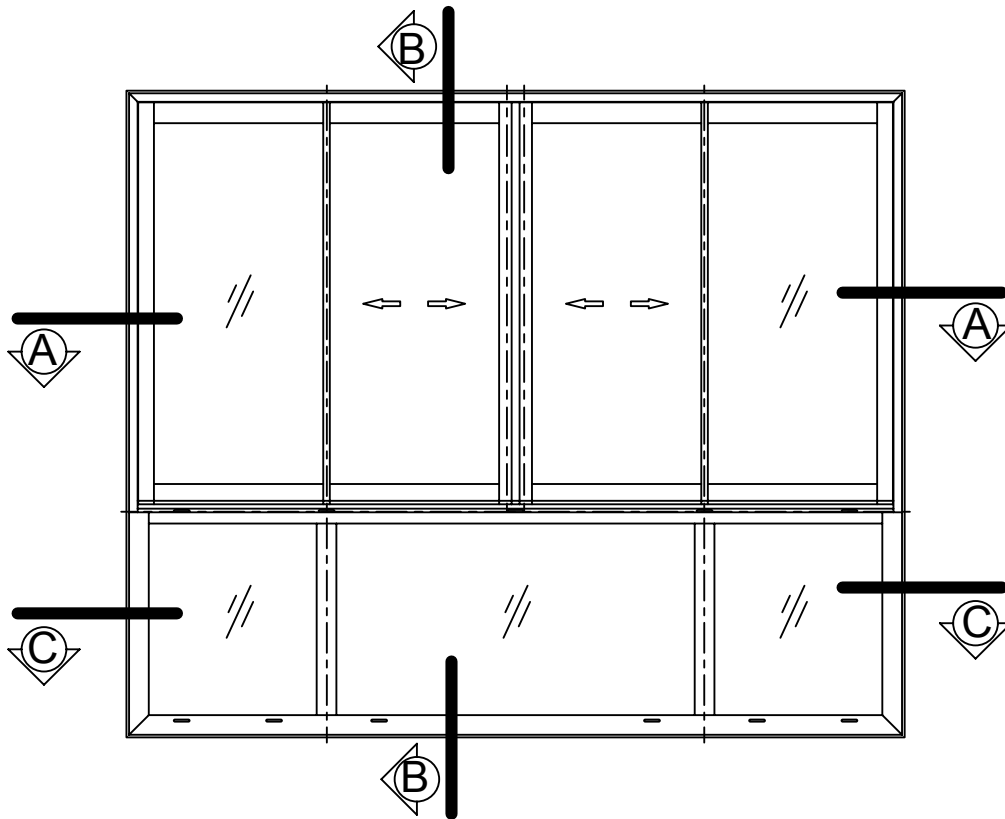
DETAIL SECTION - 'BB'

PROFILES		
Description	Shape	Section No.
Frame side		26598
Frame Bottom		26597
Bottom Sash		26600
Side Sash		26599
Interlock		26606
Interlock		26607
Adaptor		16074
Adaptor		16075

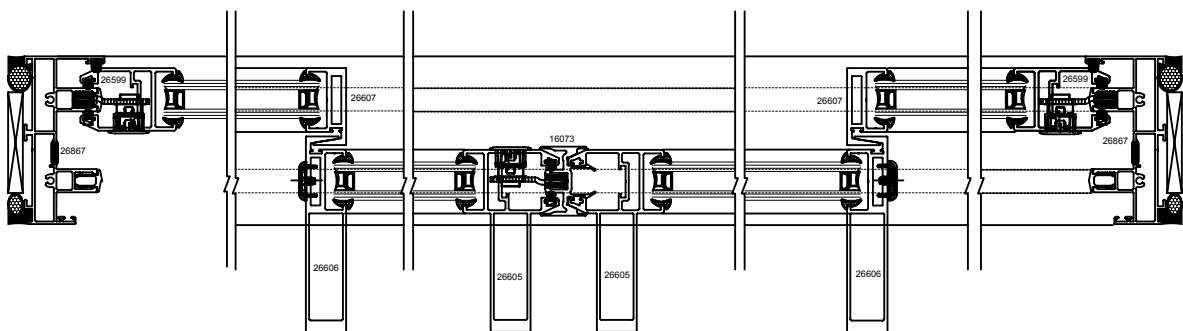


DETAIL SECTION - 'AA'

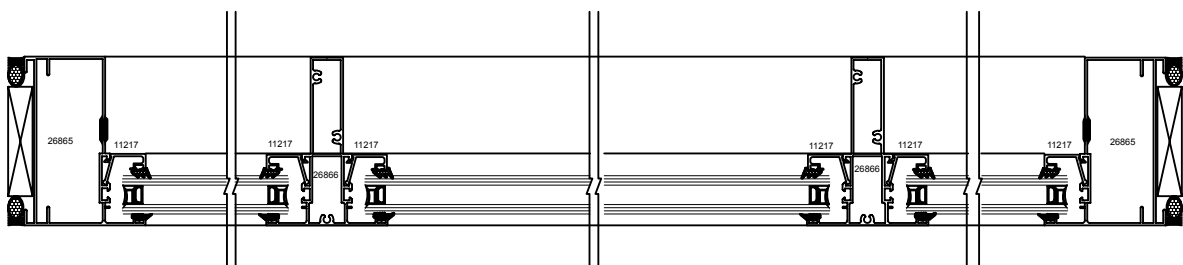
N MINIMAL SERIES



DETAIL SECTION - 'BB'

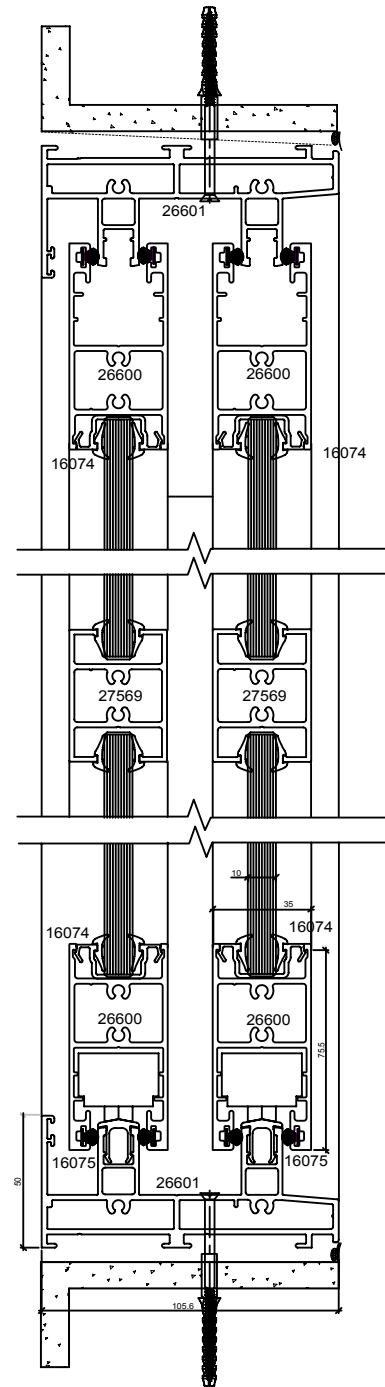
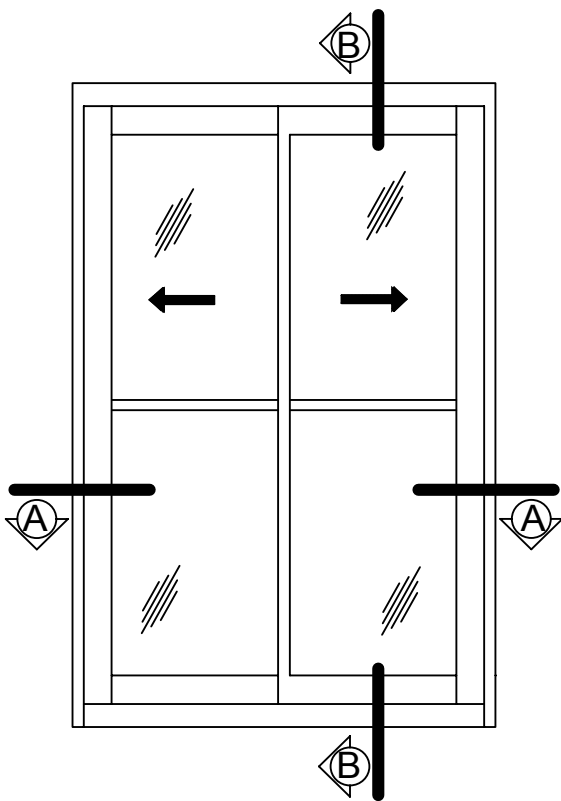


DETAIL SECTION - 'AA'



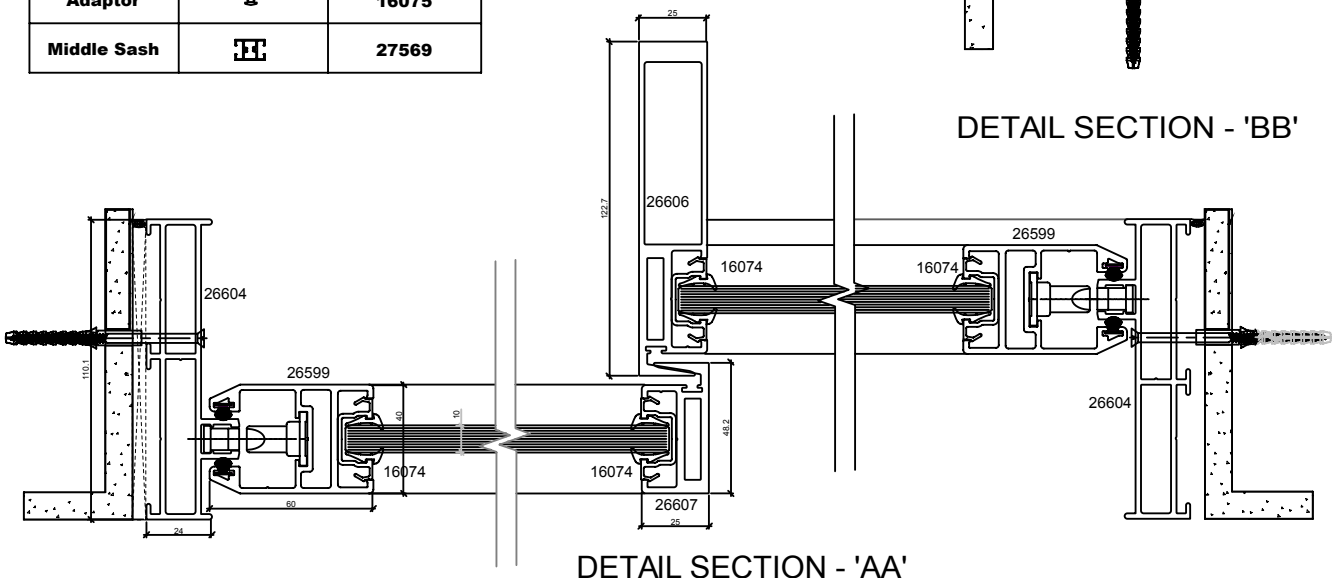
DETAIL SECTION - 'CC'

N MINIMAL SERIES



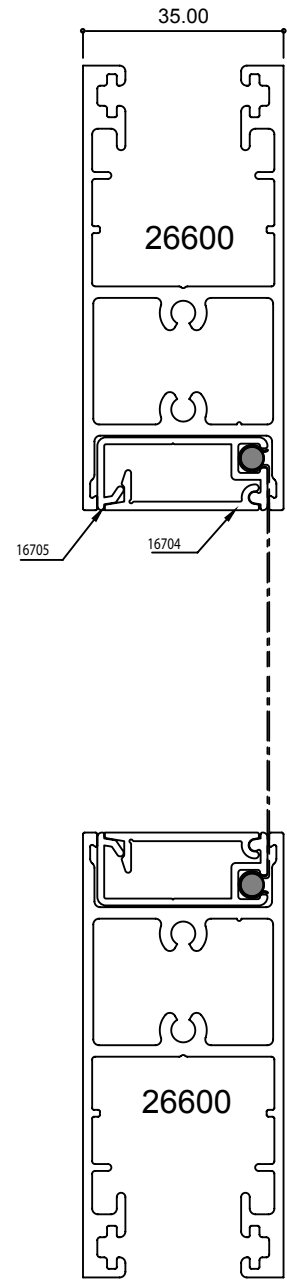
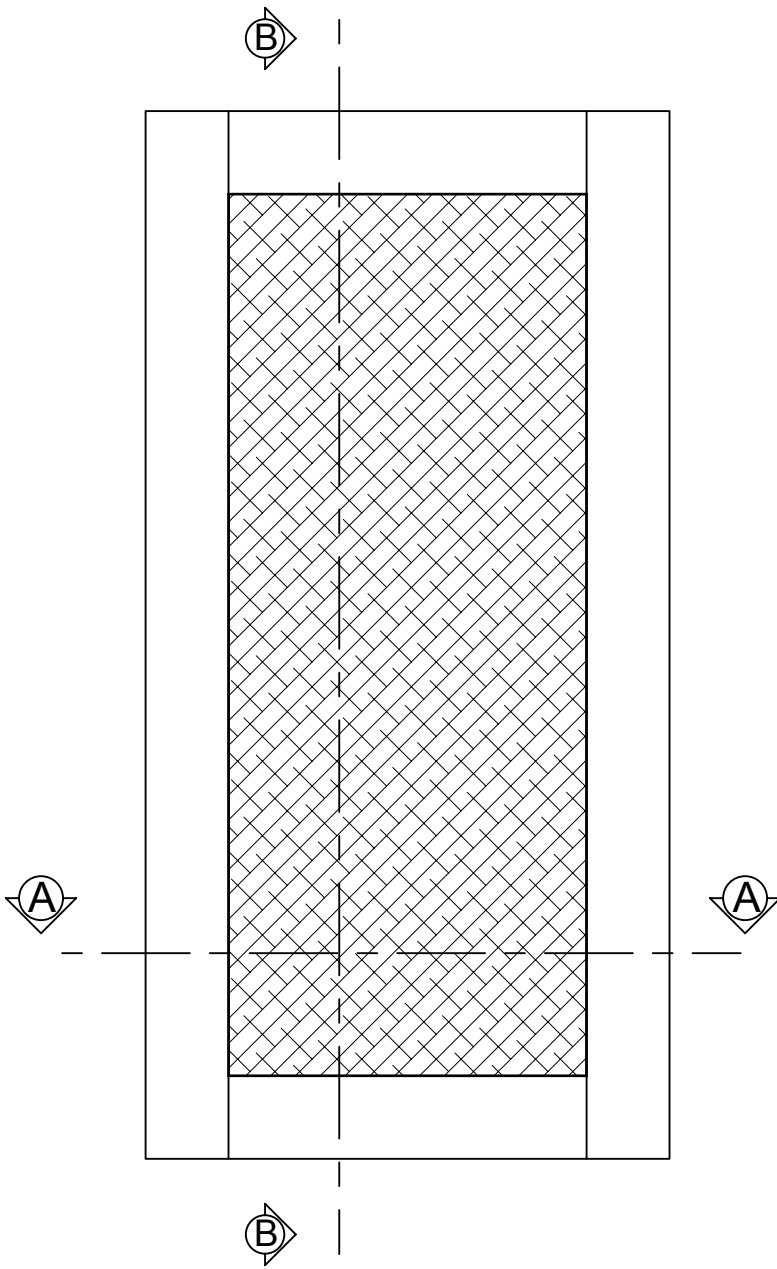
DETAIL SECTION - 'BB'

PROFILES		
Description	Shape	Section No.
Frame side		26604
Frame Bottom		26601
Bottom Sash		26600
Side Sash		26599
Interlock		26606
Interlock		26607
Adaptor		16074
Adaptor		16075
Middle Sash		27569



DETAIL SECTION - 'AA'

N MINIMAL SERIES

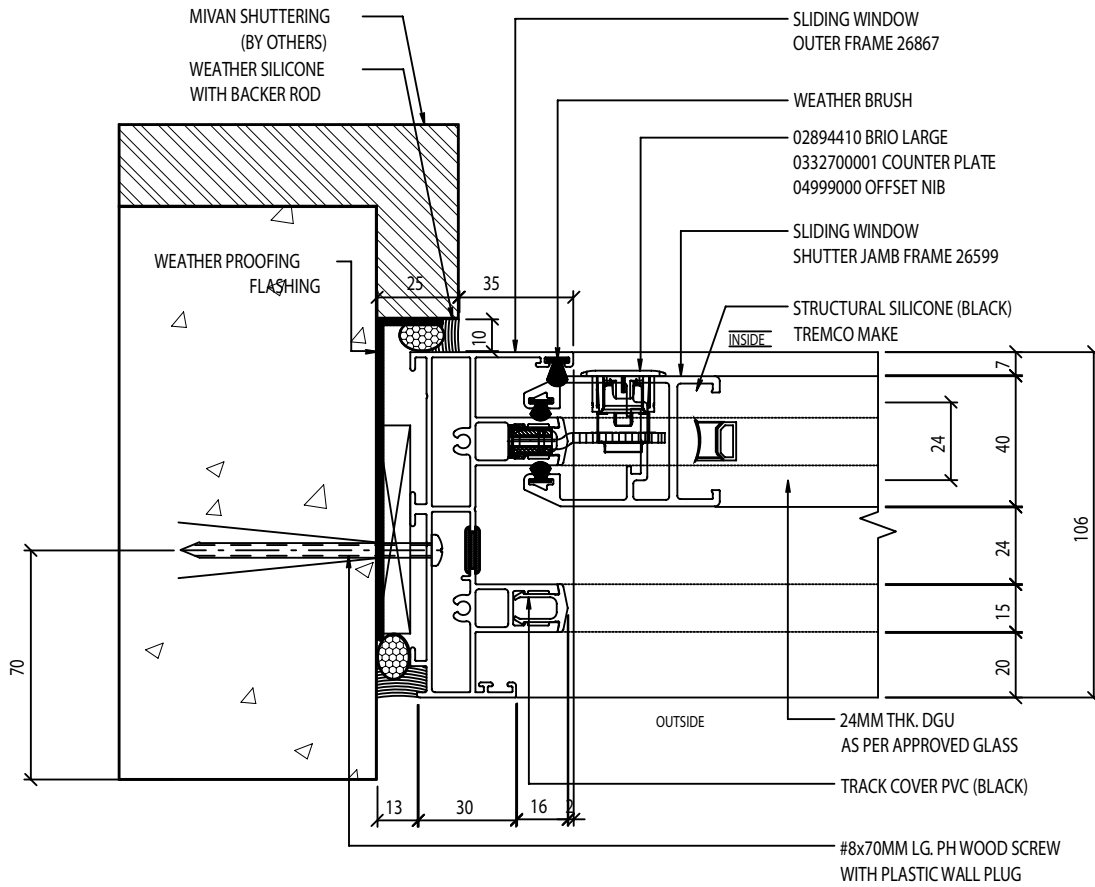


DETAIL SECTION - 'BB'

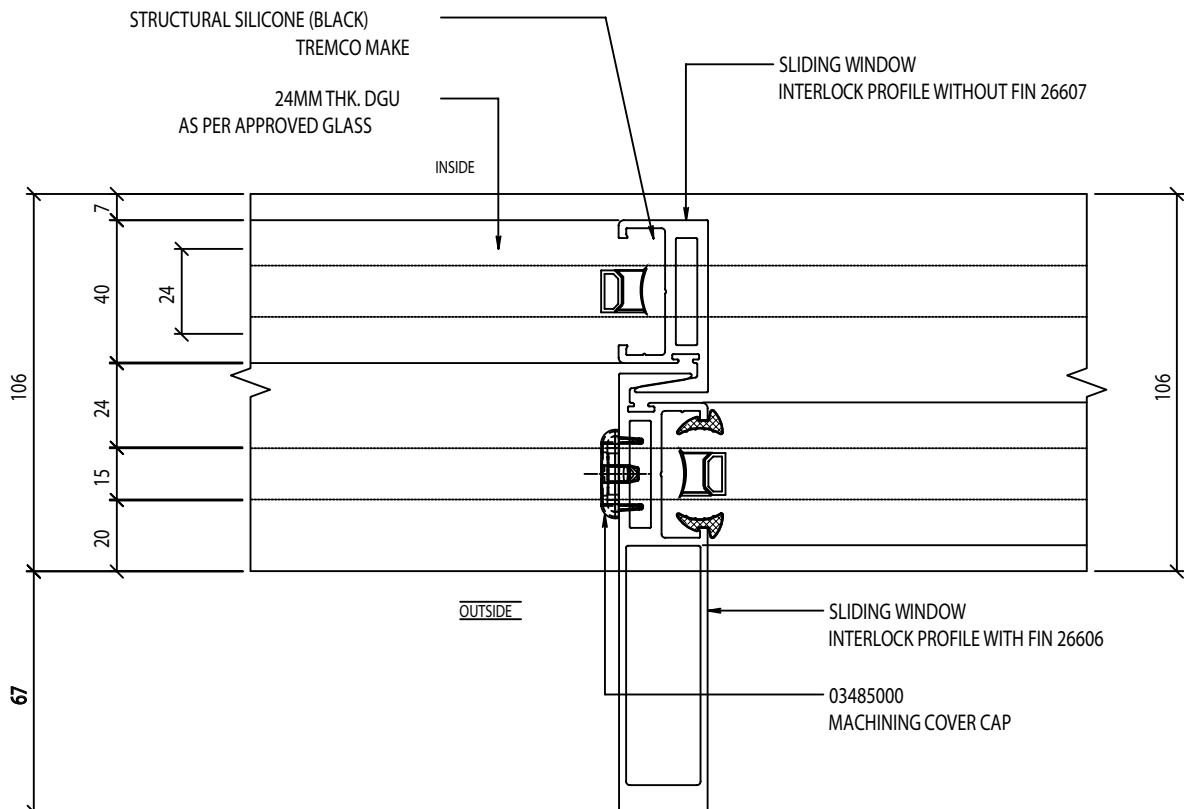


DETAIL SECTION - 'AA'

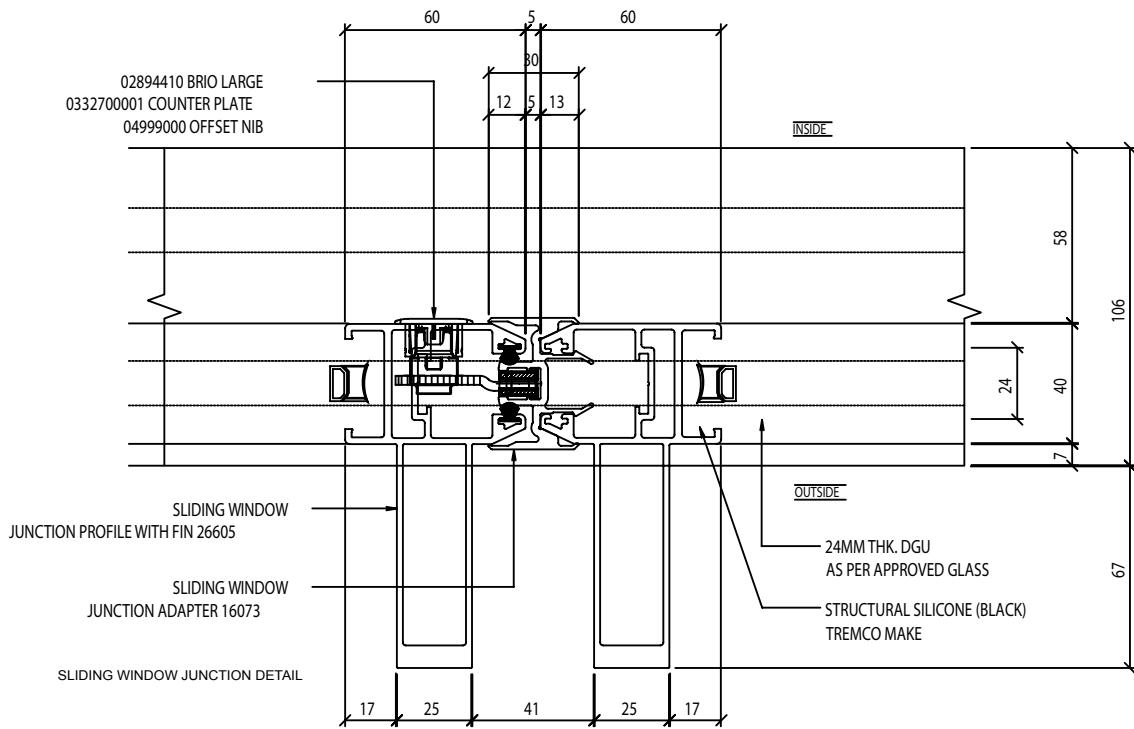
SLIDING WINDOW JUNCTION DETAIL



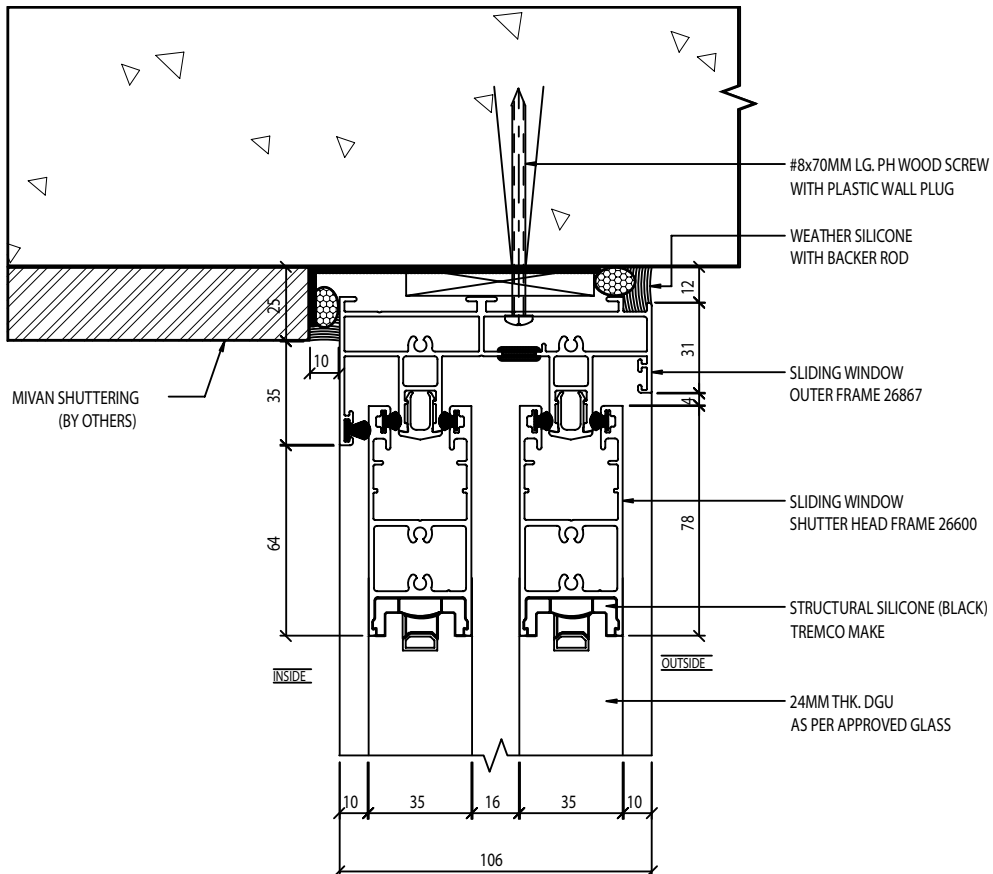
SLIDING WINDOW INTERLOCK DETAIL



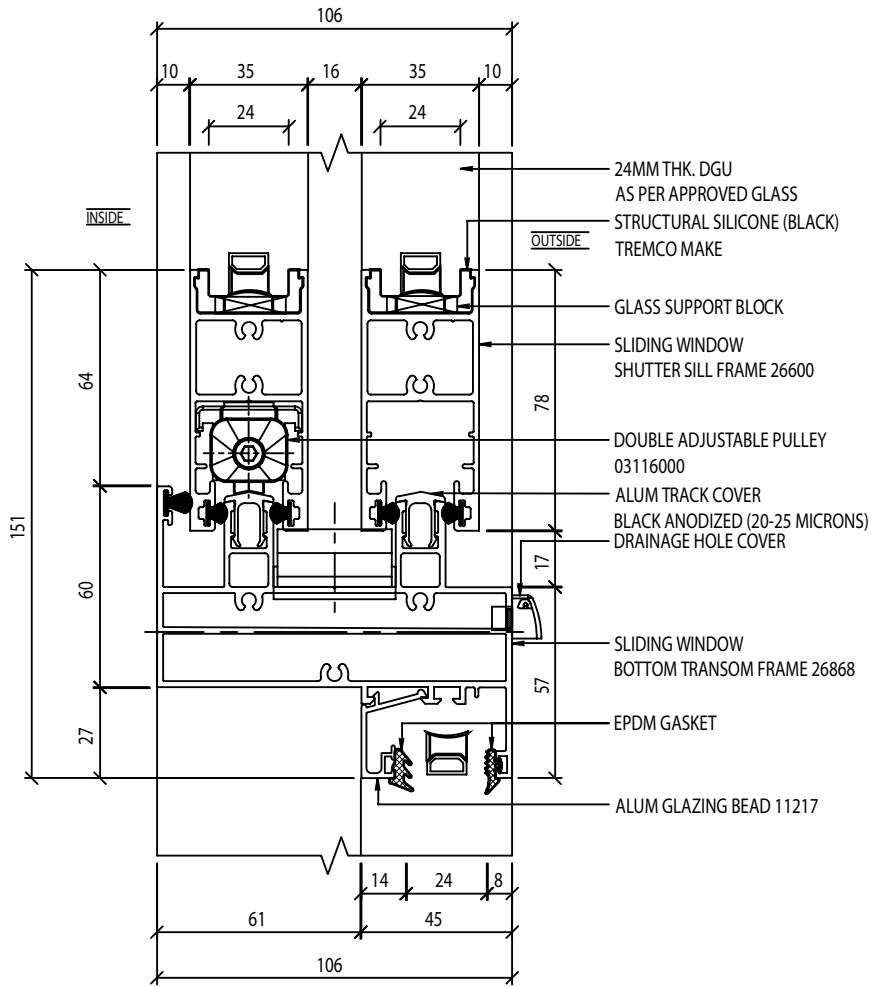
SLIDING WINDOW JUNCTION DETAIL



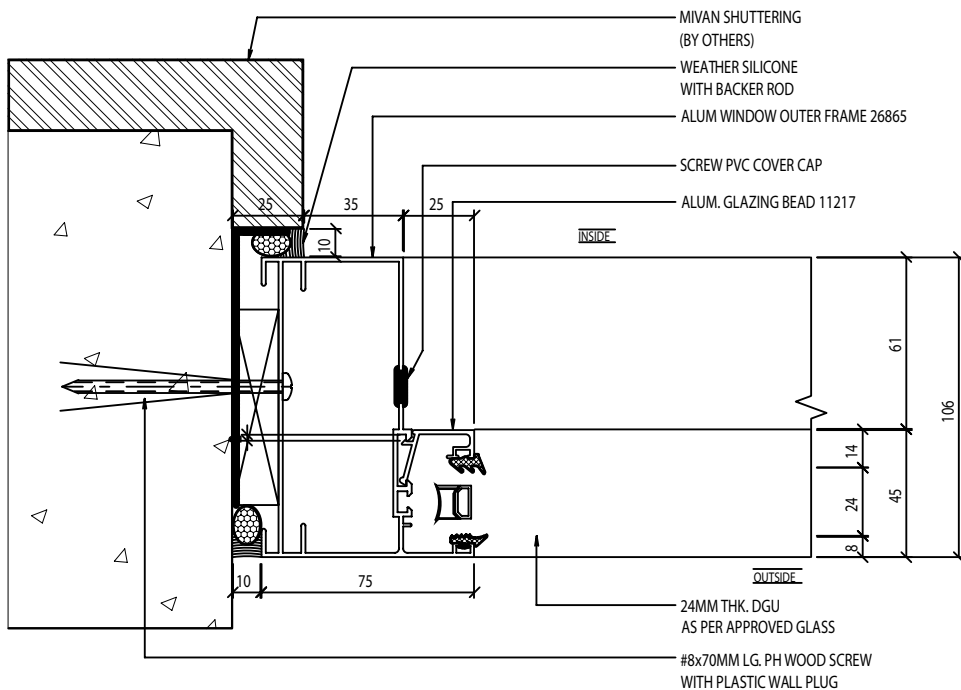
SLIDING WINDOW HEAD DETAIL



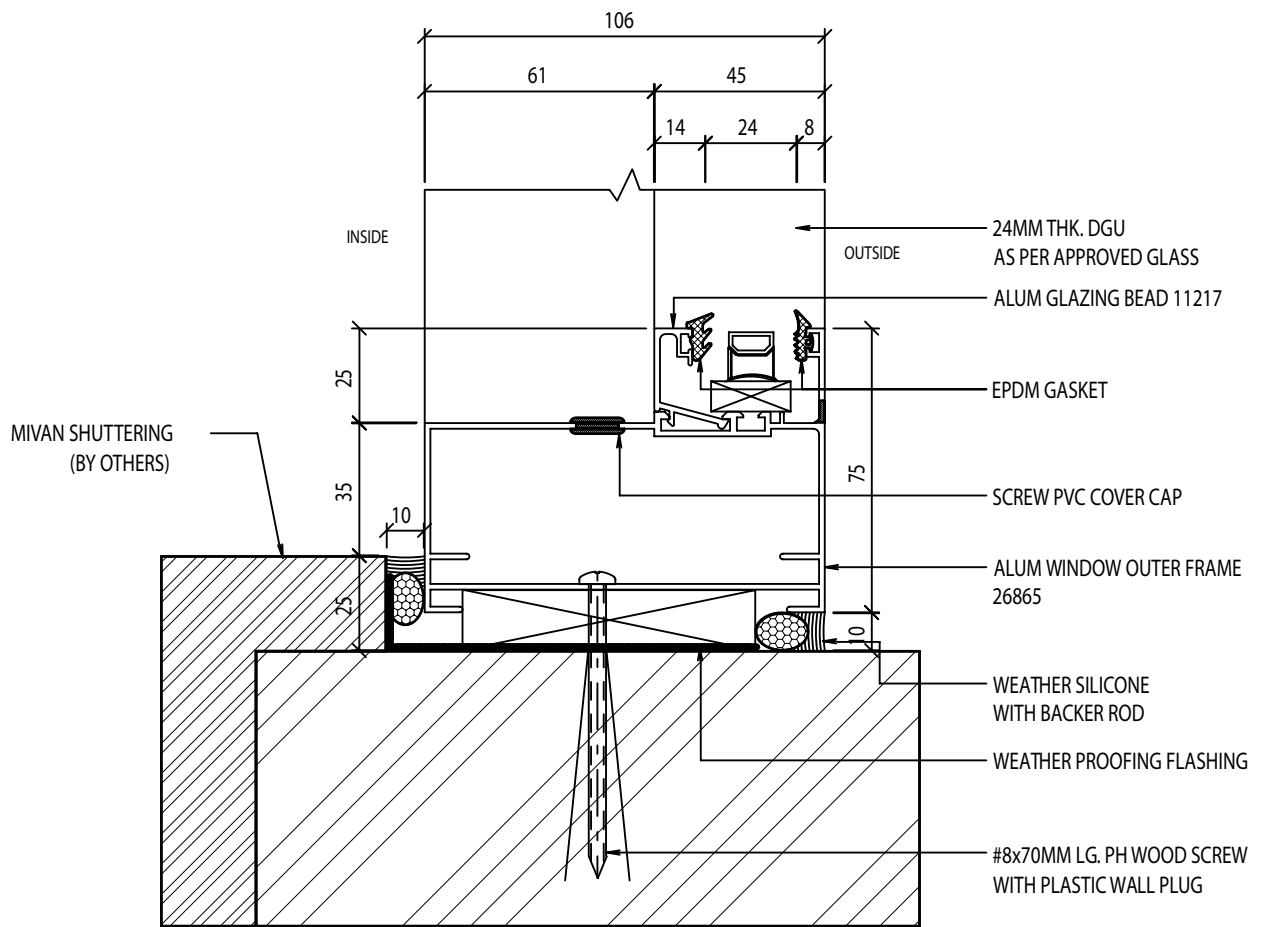
SLIDING WINDOW INTERMEDIATE DETAIL WITH BOTTOM PANEL



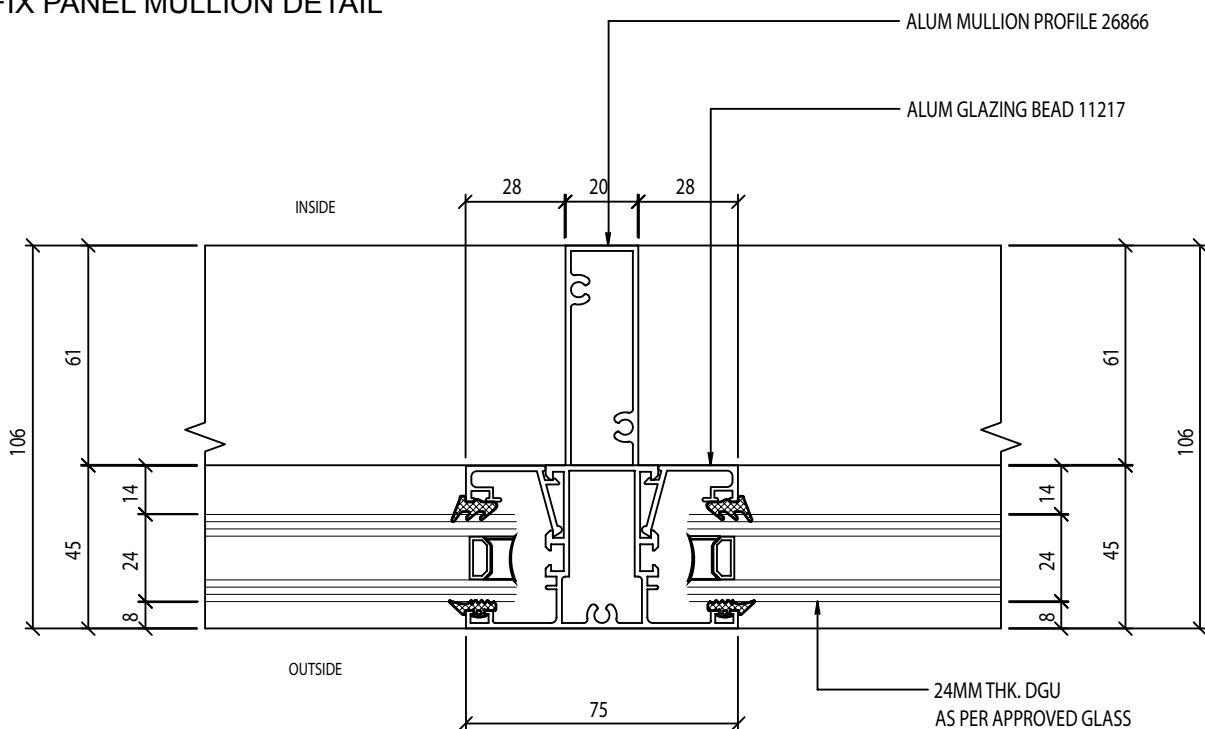
FIX PANEL JAMB DETAIL



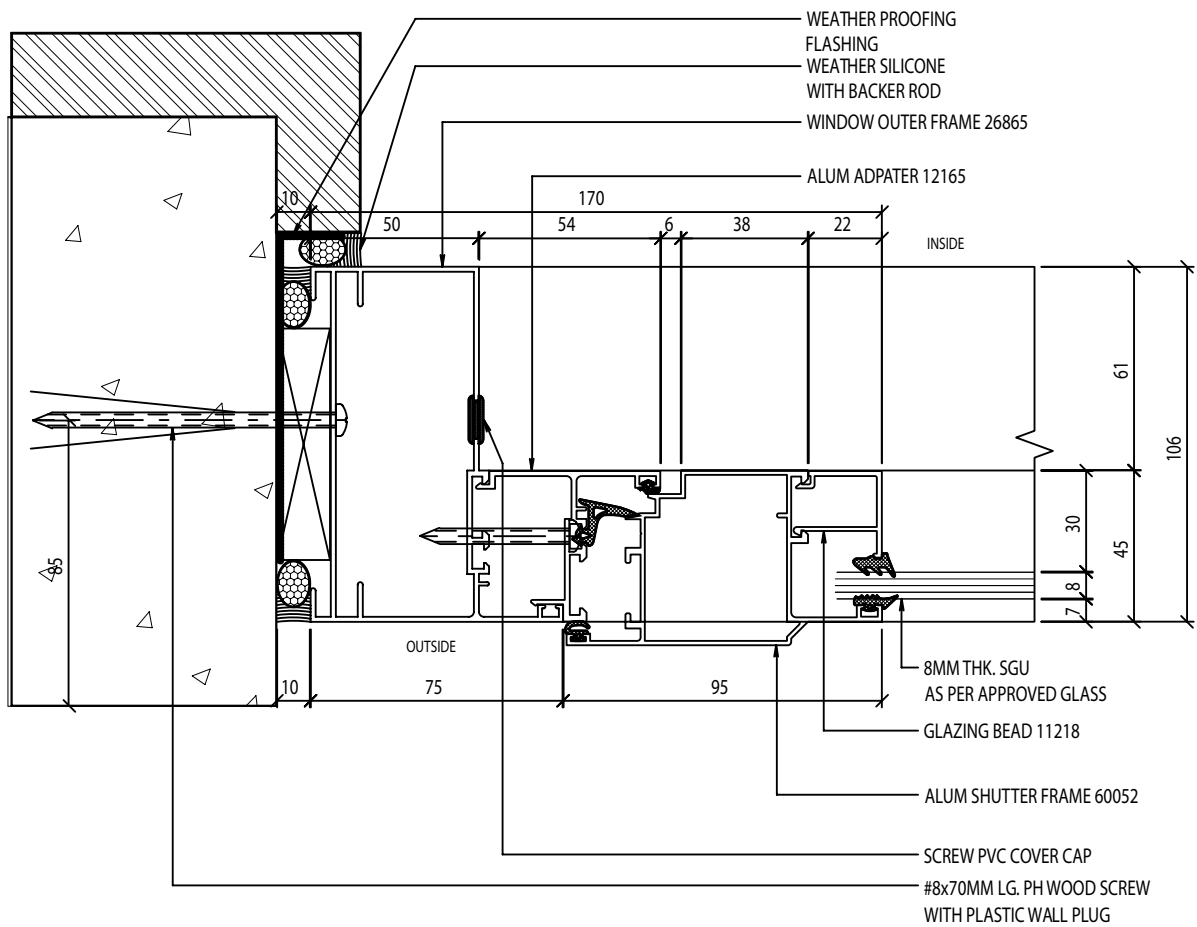
FIX PANEL SILL DETAIL



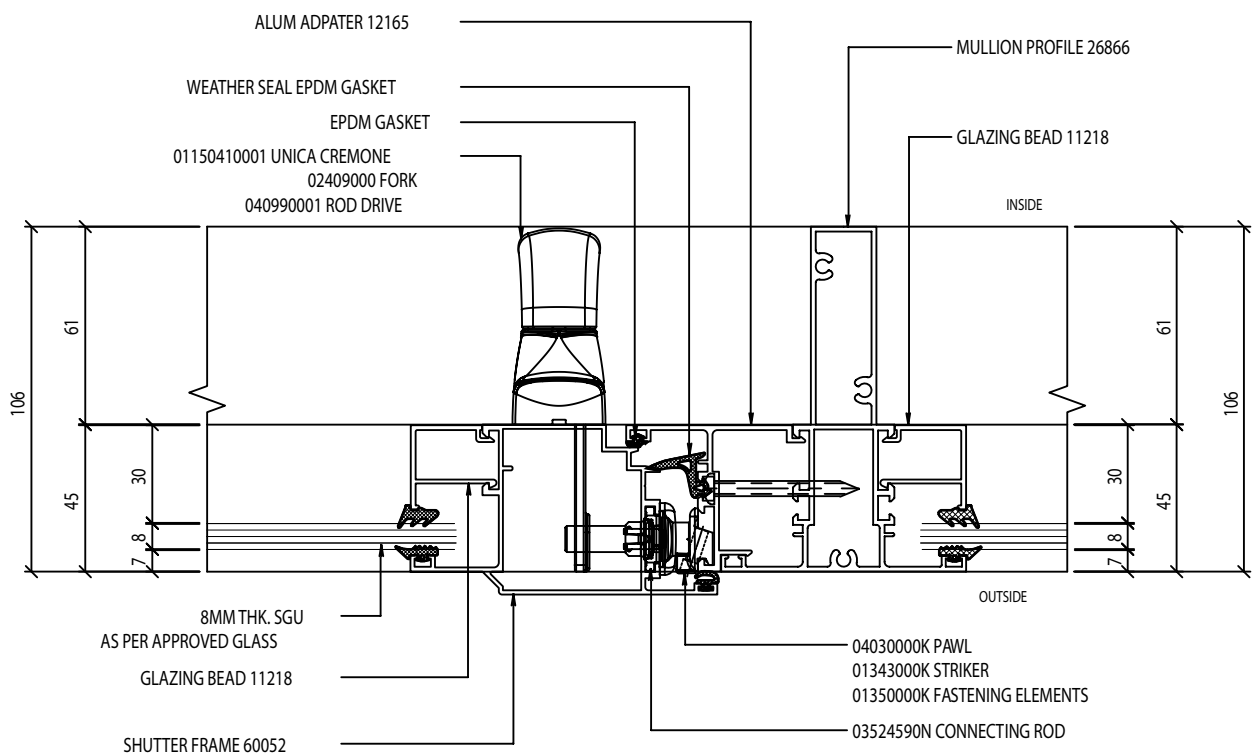
FIX PANEL MULLION DETAIL



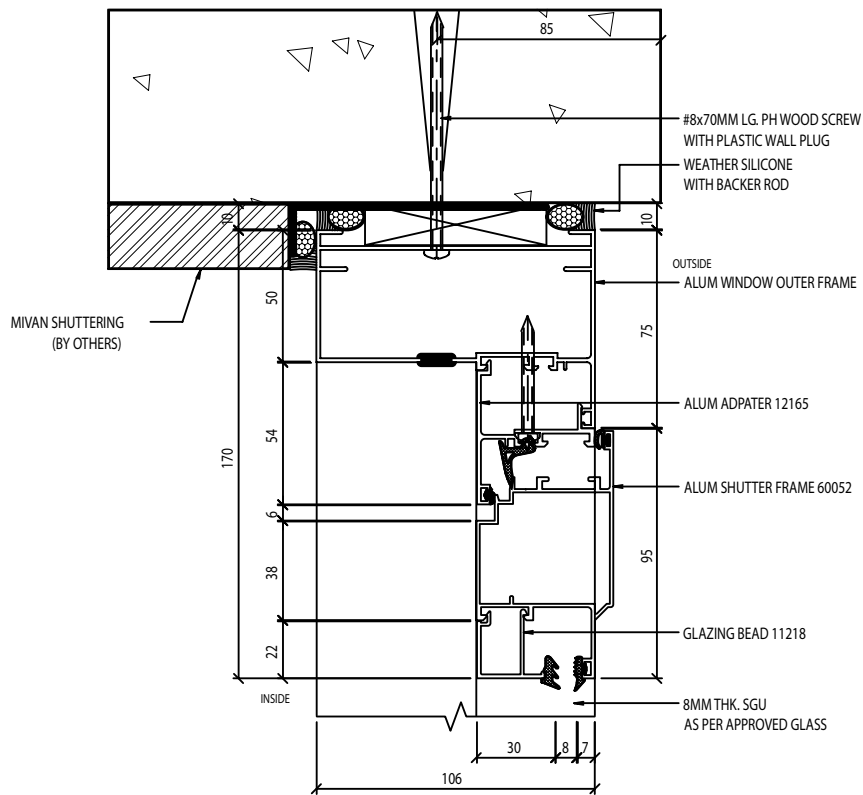
OPENABLE WINDOW JAMB DETAIL



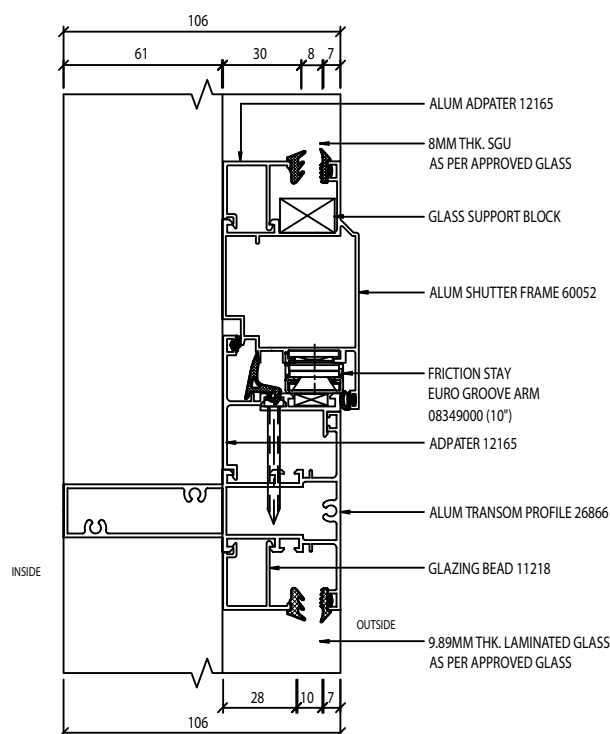
OPENABLE PANEL INTERMEDIATE DETAIL WITH SIDE FIX PANEL



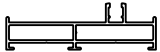

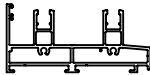
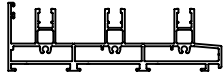
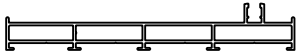
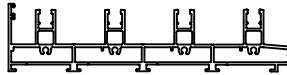
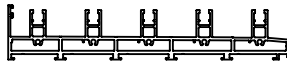

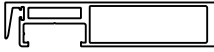
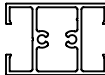
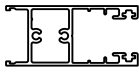
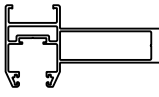
OPENABLE WINDOW JAMB DETAIL




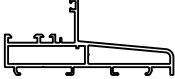
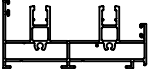
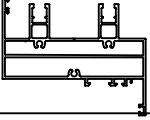
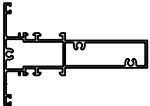
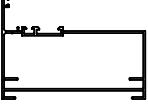
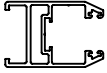
OPENABLE PANEL INTERMEDIATE DETAIL WITH BOTTOM FIX PANEL



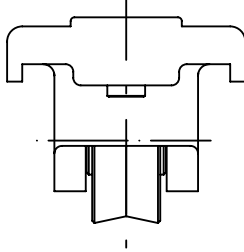
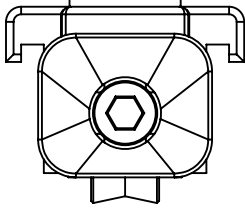
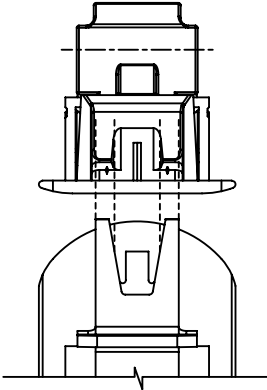
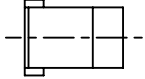
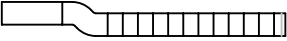
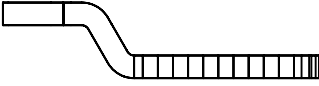
N MINIMAL SERIES

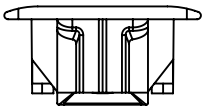
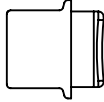
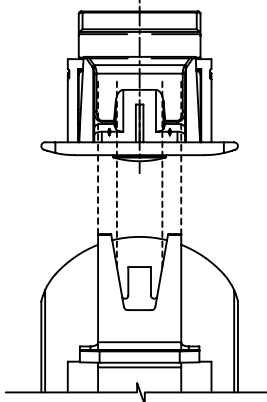
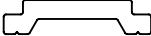

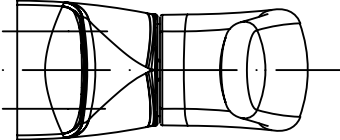
N MINIMAL SERIES				
Profile Reference No:	Profile Section	Weight - Kg/m	IX	IY
26604		1.721	4.05 cm ⁴	74.9 cm ⁴
26602		2.387	5.19 cm ⁴	217.97 cm ⁴
26601		2.460	14.30 cm ⁴	6.09 cm ⁴
26603		3.541	20.32 cm ⁴	295.29 cm ⁴
26598		3.053	63.44 mm ⁴	475.81 mm ⁴
26597		4.622	26.25 cm ⁴	665.07 cm ⁴
27612		7.048	35.56 cm ⁴	1540.12 cm ⁴
26607		1.157	1.87 cm ⁴	1.22 cm ⁴
26606		2.389	6.48 cm ⁴	153.4 cm ⁴
27569		1.137	6.92 cm ⁴	.15 cm ⁴
26600		1.479	10.92 cm ⁴	27 cm ⁴
26605		2.622	19.19 cm ⁴	152.19 cm ⁴

N MINIMAL SERIES

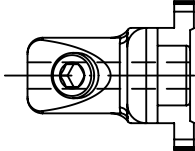
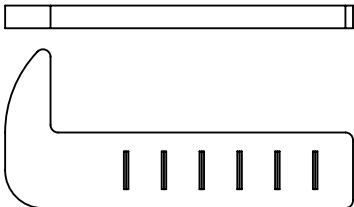
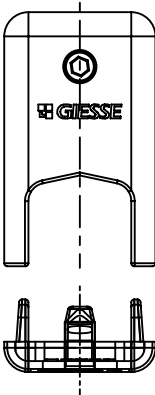
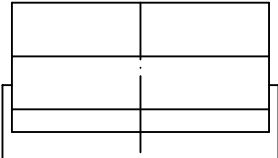

N MINIMAL SERIES				
Profile Reference No:	Profile Section	Weight - KG/M	IX	IY
16073		0.969	1.68 cm ⁴	7.38 cm ⁴
26680		1.692	5.62 cm ⁴	56.76 cm ⁴
26867		2.211	13.25 cm ⁴	91.75 cm ⁴
26868		3.022	33.98 cm ⁴	136.75 cm ⁴
26866		1.740	12.50 cm ⁴	77.41 cm ⁴
26865		1.620	27.71 cm ⁴	93.77 cm ⁴
26599		1.391	14.65 cm ⁴	12.13 cm ⁴

N MINIMAL SERIES

Item Name	Drawing	Item Code
SINGLE PULLEY		03115000
DOUBLE ADJUSTABLE PULLEY		03116000
BRIO L HANDLE		02894
COUNTER PLATE		0332700001
NIB		04582000
NIB		02597000

Item Name	Drawing	Item Code
OUTSIDE HANDLE		02980 BRIO OUTSIDE EMBEDDED HANDLE 02966N BRIO OUTSIDE PULL HANDLE 02967V BRIO KEY OUTSIDE PULL HANDLE 02996 BRIO KEY OUT.PULL HAND.(EURO BARREL)
PAWL		04027000
INSIDE EMBEDDED HANDLE		02983 BRIO PLUS 02883 BRIO PLUS KEY 02992 BRIO 02892 BRIO KEY 02988 BRIO MINI 00831 BRIO RAPID
CONNECTION ROD		03524
28 mm FORK		02403000
UNICA HANDLE UNICA LONG HANDLE		01150 - UNICA HANDLE 01125 - UNICA LONG HANDLE

N MINIMAL SERIES

Item Name	Drawing	Item Code
NIB HOLDER		03340000
NIB		03345000
MACHINING COVER PLATE		03485000
DUST-PROOF PLUG		03314000
WEATHER SEAL BRUSH		FS-69-750-HF+1-4P2L OR PB-69-750-4P FS-69-650-HF+1-4P2L OR PB-69-650-4P FS-69-1000-HF+1-4P2L OR PB-69-1000-4P



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