



REHAU TOTAL70C & TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS & TRANSOM, MULLIONS & COUPLERS

REHAU TOTAL70C & REHAU TOTAL70S

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REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

Introduction

This document outlines maximum sash size requirements. Sizes within this document have been calculated in accordance with BS6375 Part 1.

For simplicity all window sizes are based on a severe wind pressure of 2400Pa.

All door sizes are calculated at a wind pressure of 1200Pa.

Calculation based on other less severe wind pressures & reinforcement requirement per length of sash member are available upon request.

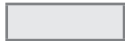


All maximum sizes shown are taken from the outer dimensions of the sash.

For windows and doors that require enhanced security specifications, i.e. compliance with PAS24, further details and/or components may be required. Please contact the REHAU Technical Department for advice.

The graphs that follows outlines maximum sizes of each sash type, including a maximum size for each steel reinforcement available.

Each reinforcement gauge/thickness used has been colour coded and depicted as follows:



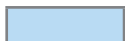
- Unreinforced



- 1.0mm Steel Reinforcement Gauge



- 1.5mm Steel Reinforcement Gauge

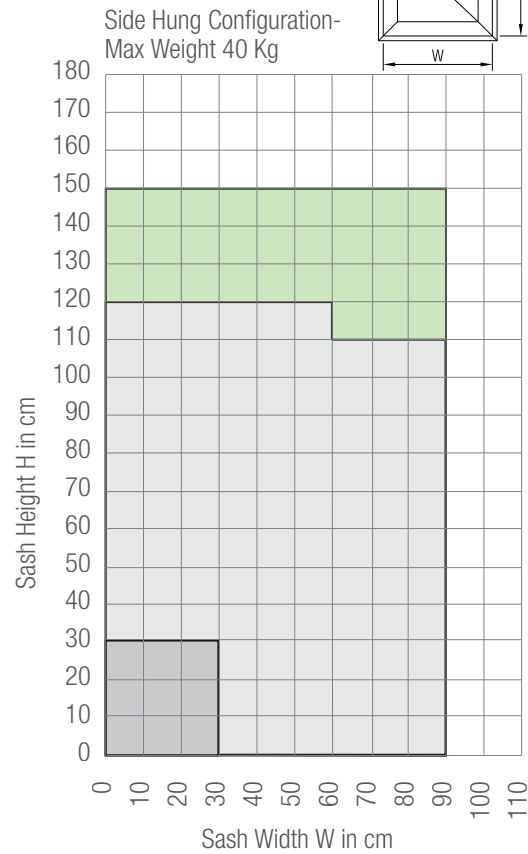
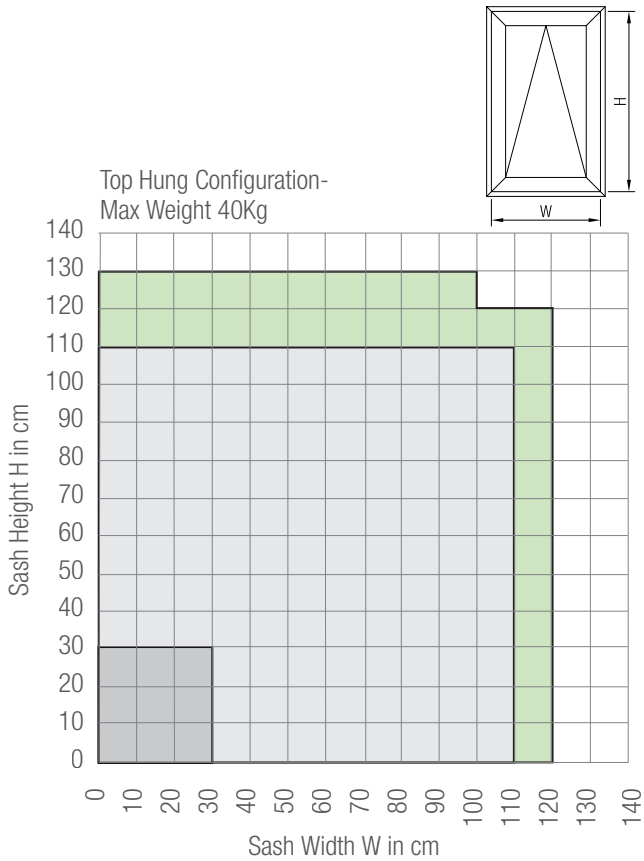
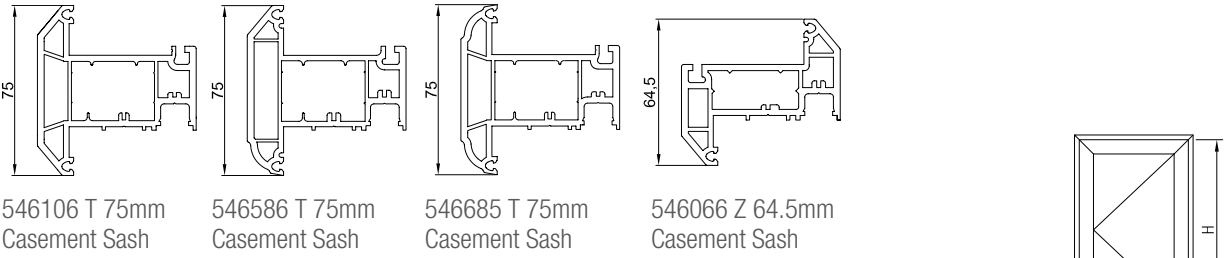


- 2.0mm Steel Reinforcement Gauge

REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

Top & Side Hung



Size Subject to Manufacture Unreinforced Sash

	Article No.	Reinforcement	Description	I-Value	Sash	
	287777		35 x 20 x 1.0mm	Ix 1.65cm ⁴ Iy 0.58cm ⁴	546106	576287
					546586	576267
					546685	576685
	287786		35 x 13 x 1.0mm	Ix 1.26cm ⁴ Iy 0.24cm ⁴	546066	576247

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

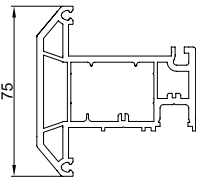


All sizes subject to hardware suppliers recommendations.

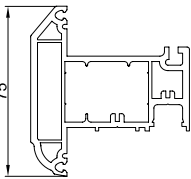
REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

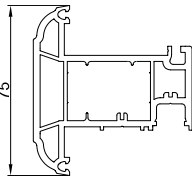
French Window



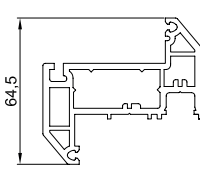
546106 T 75mm
Casement Sash



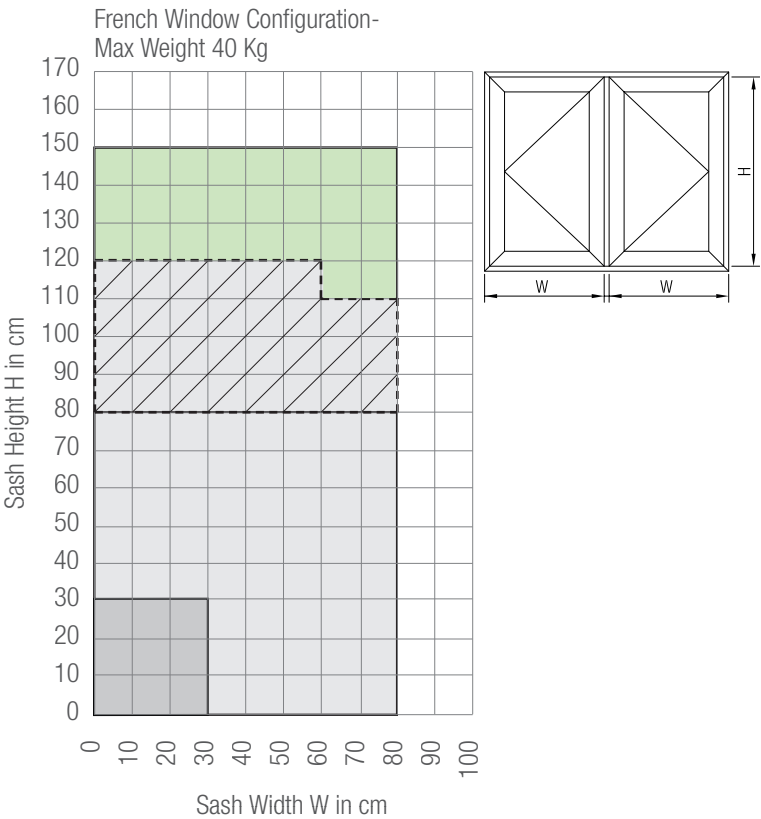
546586 T 75mm
Casement Sash



546685 T 75mm
Casement Sash



546066 Z 64.5mm
Casement Sash



Size Subject to
Manufacture



Unreinforced Sash



Unreinforced sash size subject to fully
reinforced mullion and use of shoot bolts.

	Article No.	Reinforcement	Description	I-Value	Sash	
	287777		35 x 20 x 1.0mm	I _x 1.65cm ⁴ I _y 0.58cm ⁴	546106	576287
					546586	576267
					546685	576685
	287786		35 x 13 x 1.0mm	I _x 1.26cm ⁴ I _y 0.24cm ⁴	546066	576247

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

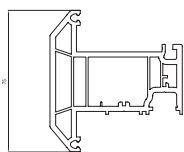


All sizes subject to hardware
suppliers recommendations.

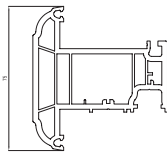
REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

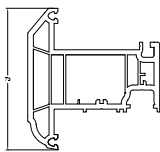
Top Hung, Side Hung and French Window



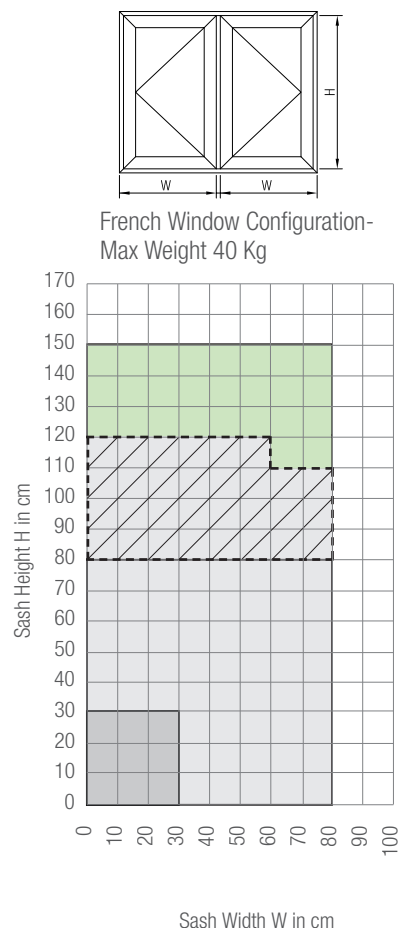
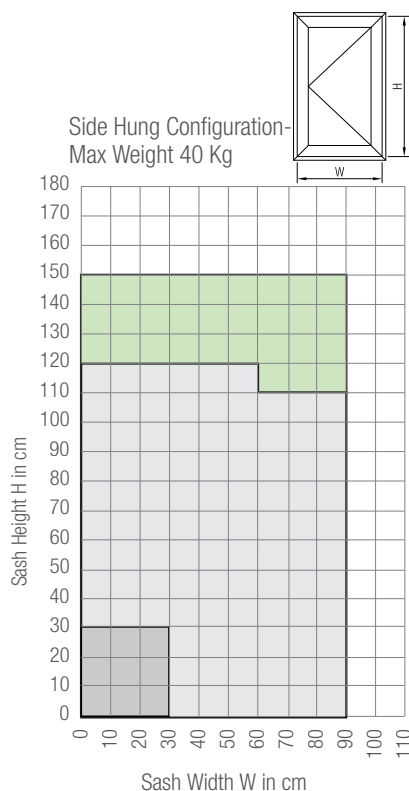
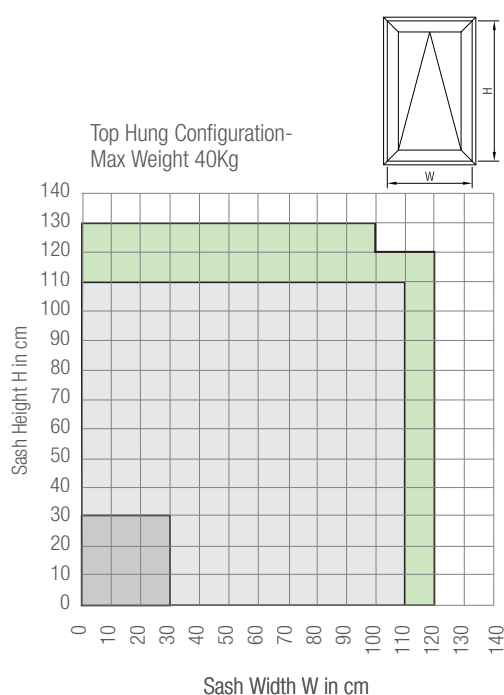
546855/546856
T 75mm
Casement Sash



546455 T 75mm
Casement Sash



546885 T 75mm
Casement Sash



Size Subject to
Manufacture

Unreinforced Sash

Unreinforced sash size subject to fully
reinforced mullion and use of shoot bolts.

	Article No.	Reinforcement	Description	I-Value	Sash	
	318585		28 x 23 x 1mm	lx 1.05 cm ⁴ ly 0.79 cm ⁴	546855	586855
					546455	586455
					546885	586885

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

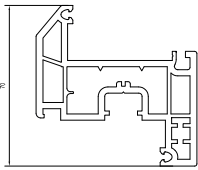


All sizes subject to hardware
suppliers recommendations.

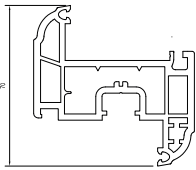
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MAXIMUM SASH SIZE RECOMMENDATIONS

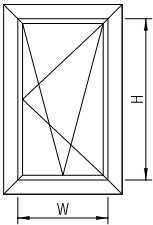
Tilt & Turn



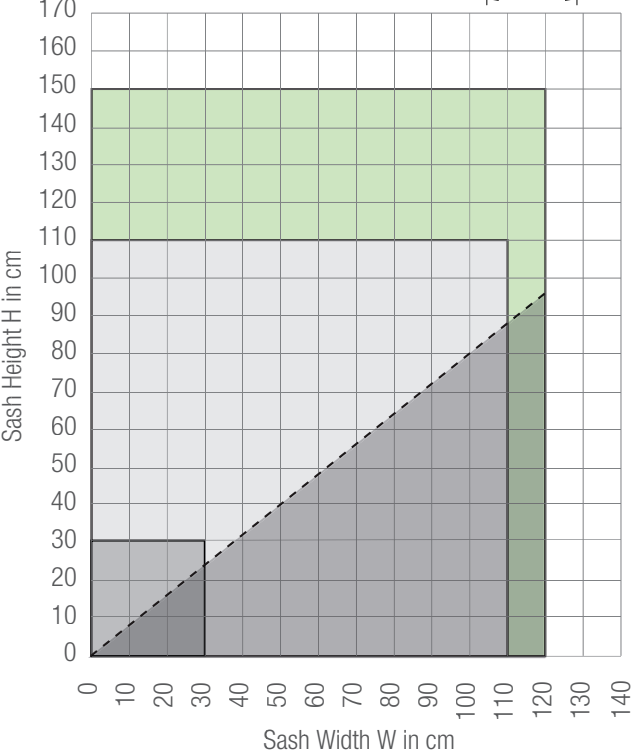
546776 70mm
Tilt & Turn Sash



546695 70mm
Tilt & Turn Sash



Tilt & Turn Configuration-
Max Weight 60Kg



Size Subject to
Manufacture

Unreinforced Sash

Sizes restricted by
hardware width & height
ratio

	Article No.	Reinforcement	Description	I-Value	Sash	
	287779		40 x 18 x 1.0mm	$I_x 1.91\text{cm}^4$ $I_y 0.23\text{cm}^4$	546776 546695	576776 576695

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

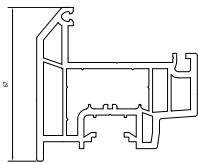


All sizes subject to hardware suppliers recommendations. Tilt & Turn sizes may be restricted further by hardware width & height ratio. Area below the dashed line indicates where this may take effect.

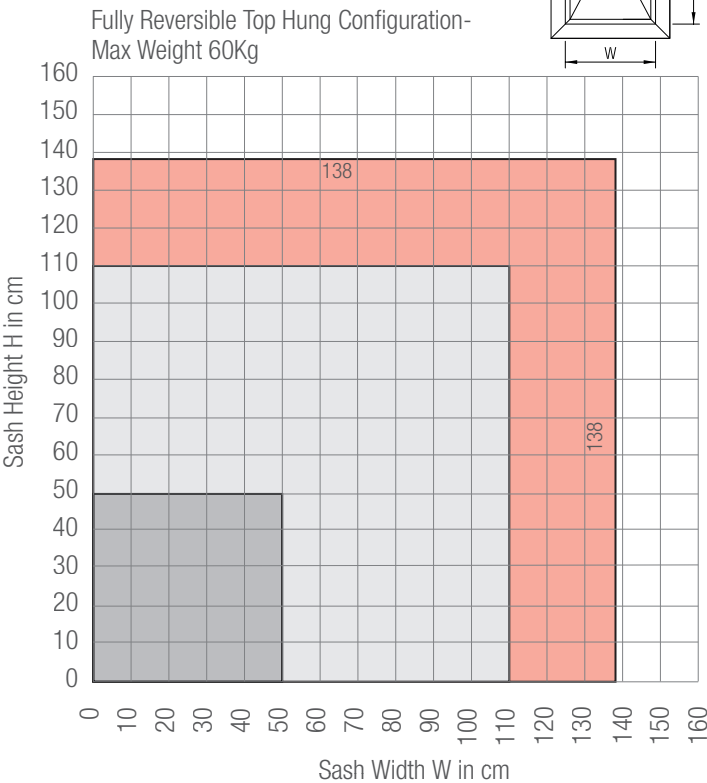
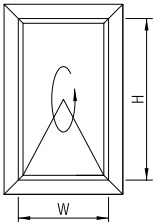
REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

Fully Reversible



546940 67mm
Fully Reversible Sash



Size Subject to
Manufacture

Unreinforced Sash

	Article No.	Reinforcement	Description	I-Value	Sash	
	216885		34 x 28 x 16.5 x 1.5mm	$I_x 1.98m^4$ $I_y 0.71cm^4$	546940	586940
	216895		34 x 14 x 1.5mm <i>*To be used on hinge sides in conjunction with 216885</i>	$I_x 1.65m^4$ $I_y 0.41cm^4$	546940	586940

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

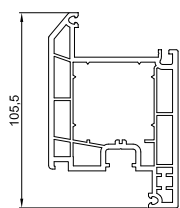


All sizes subject to hardware
suppliers recommendations.

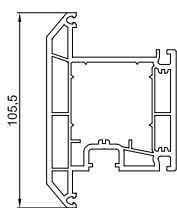
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MAXIMUM SASH SIZE RECOMMENDATIONS

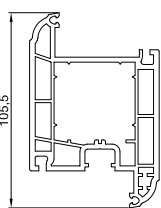
Residential Door



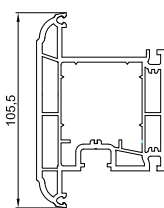
546625 Z 105.5mm
Door Sash



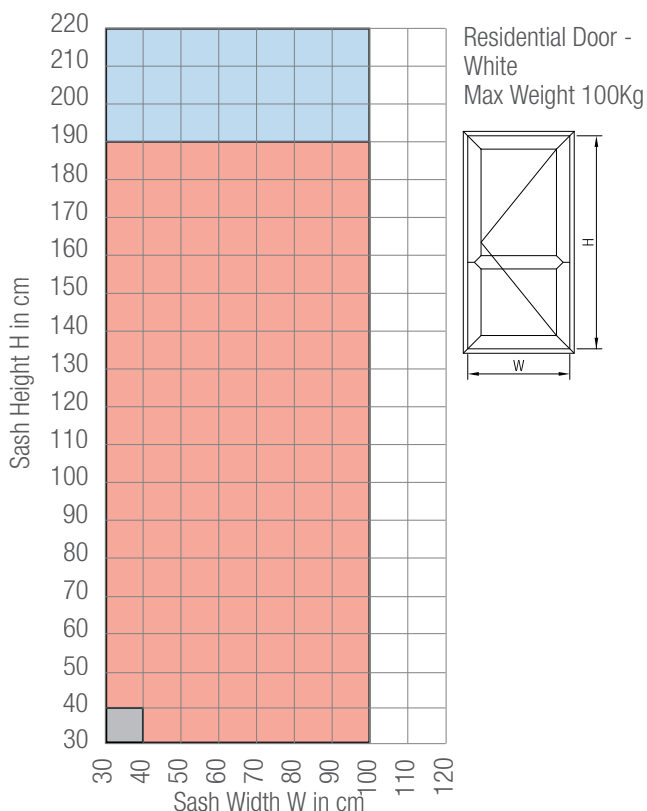
546635 T 105.5mm
Door Sash



546715 Z 105.5mm
Door Sash



546725 Z 105.5mm
Door Sash



	Article No.	Reinforcement	Description	I-Value	Sash	
	258841 (Welded)		40 x 40 x 2.0mm	Ix 7.21cm ⁴ Iy 7.21cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	252827 262490 (Pre-routed)		40 x 40 x 12 x 2.0mm <i>*To be used on handle side only.</i>	Ix 6.79cm ⁴ Iy 4.98cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	200374 (Welded)		40 x 40 x 1.5mm	Ix 5.64cm ⁴ Iy 5.64cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	287787 287789 (Pre-routed)		40 x 40 x 12 x 1.0mm <i>*To be used on handle side only.</i>	Ix 3.65cm ⁴ Iy 2.67cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725

Size Subject to Manufacture

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

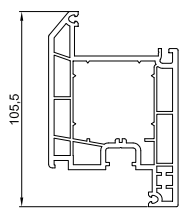


All sizes subject to hardware suppliers recommendations.

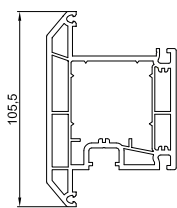
REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

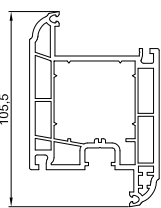
French Door



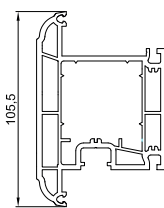
546625 Z 105.5mm
Door Sash



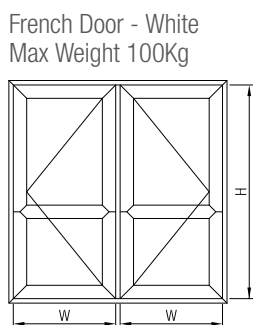
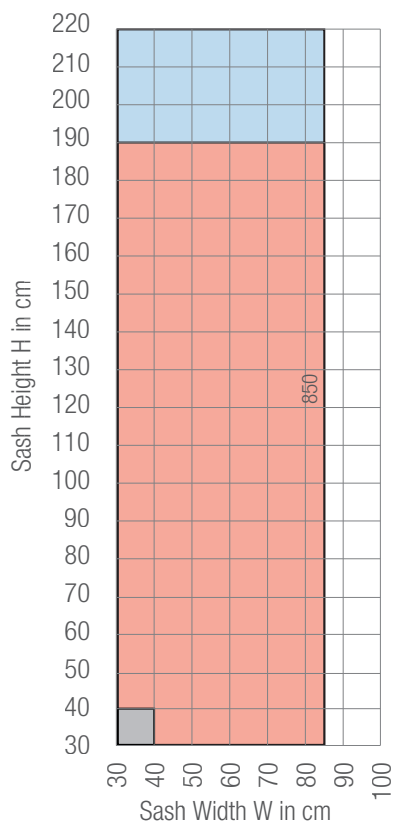
546635 T 105.5mm
Door Sash



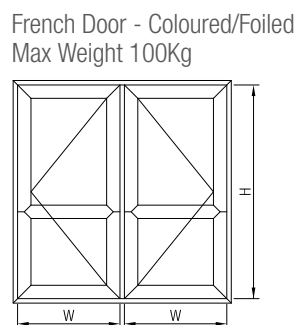
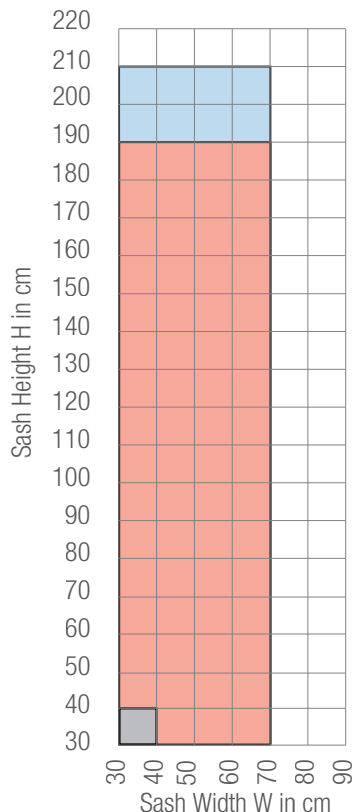
546715 Z 105.5mm
Door Sash



546725 Z 105.5mm
Door Sash



French Door - White
Max Weight 100Kg



French Door - Coloured/Foiled
Max Weight 100Kg

	Article No.	Reinforcement	Description	I-Value	Sash	
	258841 (Welded)		40 x 40 x 2.0mm	lx 7.21cm ⁴ ly 7.21cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	252827 262490 (Pre-routed)		40 x 40 x 12 x 2.0mm <i>*To be used on handle side only.</i>	lx 6.79cm ⁴ ly 4.98cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	200374 (Welded)		40 x 40 x 1.5mm	lx 5.64cm ⁴ ly 5.64cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	287787 287789 (Pre-routed)		40 x 40 x 12 x 1.0mm <i>*To be used on handle side only.</i>	lx 3.65cm ⁴ ly 2.67cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725

Size Subject to Manufacture

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge

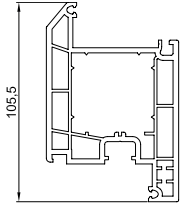


All sizes subject to hardware suppliers recommendations.

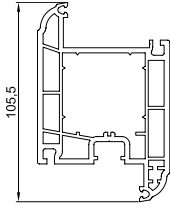
REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

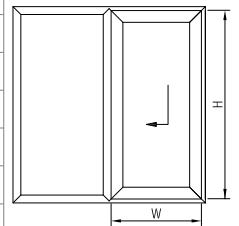
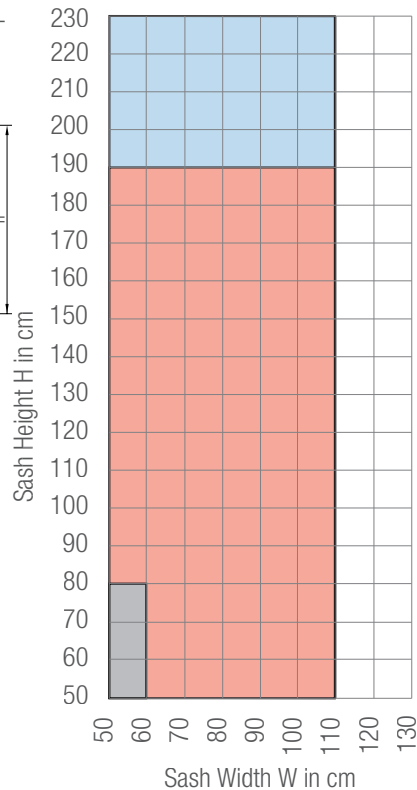
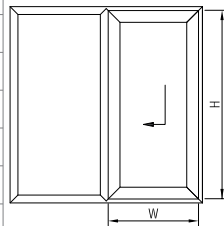
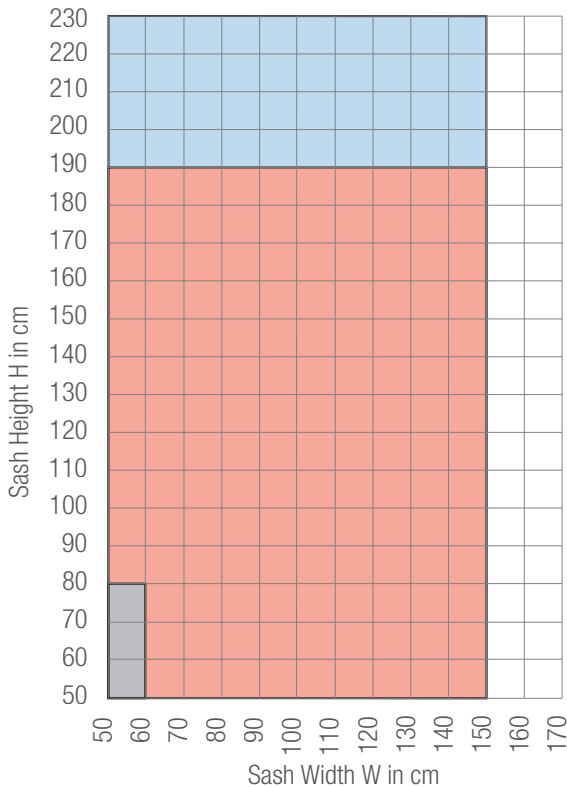
Tilt & Slide Patio Door



546625 Z 105.5mm
Door Sash



546715 Z 105.5mm
Door Sash



	Article No.	Reinforcement	Description	I-Value	Sash	
	258841 (Welded)		40 x 40 x 2.0mm	lx 7.21cm ⁴ ly 7.21cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	252827 262490 (Pre-routed)		40 x 40 x 12 x 2.0mm <i>*To be used on handle side only.</i>	lx 6.79cm ⁴ ly 4.98cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	200374 (Welded)		40 x 40 x 1.5mm	lx 5.64cm ⁴ ly 5.64cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725
	287787 287789 (Pre-routed)		40 x 40 x 12 x 1.0mm <i>*To be used on handle side only.</i>	lx 3.65cm ⁴ ly 2.67cm ⁴	546625 546635 546715 546725	576625 576635 576715 576725

Size Subject to Manufacture

Key

- Unreinforced
- 1.0mm Steel Reinforcement Gauge
- 1.5mm Steel Reinforcement Gauge
- 2.0mm Steel Reinforcement Gauge



All sizes subject to hardware suppliers recommendations.

REHAU TOTAL70C & REHAU TOTAL70S

MAXIMUM SASH SIZE RECOMMENDATIONS

Maximum Size Overview

Sash Style	Colour	Top Hung			Side Hung			French Windows			Tilt & Turn		
		W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)
T Sash	White	1.2 x 1.2 1.0 x 1.3	1.44	40	0.9 x 1.5	1.35	40	0.8 x 1.5	1.2	40			
	Colour/ Folled	1.2 x 1.2 1.0 x 1.3	1.44	40	0.9 x 1.5	1.35	40	0.8 x 1.5	1.2	40			
Z Sash	White	1.2 x 1.2 1.0 x 1.3	1.44	40	0.9 x 1.5	1.35	40	0.8 x 1.5	1.2	40	1.2 x 1.5	1.8	60
	Colour/ Folled	1.2 x 1.2 1.0 x 1.3	1.44	40	0.9 x 1.5	1.35	40	0.8 x 1.5	1.2	40	1.2 x 1.5	1.8	60

Sash Style	Colour	Fully Reversible Top Hung			Fully Reversible Side Hung			Residential Door			French Door			Tilt & Slide Patio Door		
		W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)	W x H (m)	Area (m ²)	Weight (Kg)
T Sash	White	1.38 x 1.38	-	60	0.9 x 1.2	-	60	1.0 x 2.2	-	100	0.85 x 2.2	-	100			
	Colour/ Folled	1.38 x 1.38	-	60	0.9 x 1.2	-	60	1.0 x 2.1	-	100	0.7 x 2.1	-	100			
Z Sash	White							1.0 x 2.2	-	100	0.85 x 2.2	-	100	1.5 x 2.3	-	100
	Colour/ Folled							1.0 x 2.1	-	100	0.7 x 2.1	-	100	1.1 x 2.3	-	100

Maximum sizes shown are calculated using the maximum gauge steel reinforcement shown within this guide.
Windows have been calculated using a windpressure of 2400Pa and Doors 1200Pa.
Sizes are subject to instructions provided by fitting suppliers.

REHAU TOTAL70 WINDOW AND DOOR SYSTEM

NOTES

REHAU TOTAL70C & REHAU TOTAL70S

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TRANSOMS, MULLIONS & COUPLERS

How To Use This Guide

This document provides standard reinforcement & profile coupling details from which an appropriate configuration can be chosen. Specified by windload calculation, the required I-value can be read from tables providing a configuration solution.

Example:

If a windload calculation dictates that two coupled elements require an I-value of 6.00cm^4 , the table can be used to find the most suitable combination.

Each table is split between 3 shaded areas:

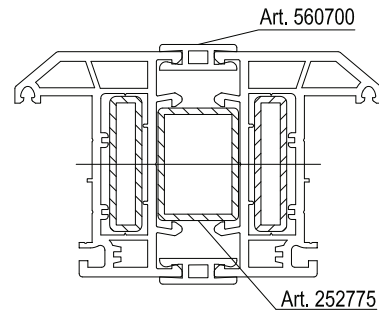
	- Ancillary Reinforcement Details
	- Frame Reinforcement Details
	- Combined Reinforcement Strength

Each area of the table provides Art-No, individual I-value and description of the reinforcement used. The I-value of each section is combined to give the total I-value for the assembly.

The combined I-value is the total between frame reinforcement and ancillary reinforcement within the assembly.

To achieve 6.00cm^4 , values equal to or above this figure are required. In this case 7.00cm^4 is the most suitable combination from which the required articles can be read off from the table as highlighted.

In the example below the frame steel (3.54cm^4) is the combined value of 2 x Art.249838 used within the assembly, ie. $I_x (\text{cm}^4) \times 2 = \text{Frame Steel } (\text{cm}^4)$.

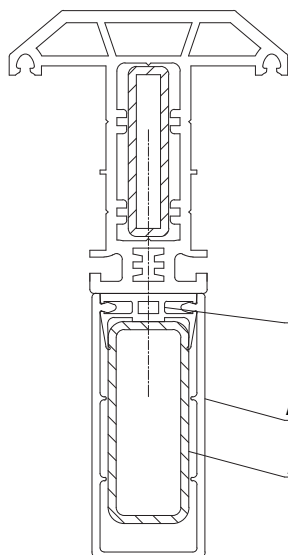


Art - No.									287777	261986	252775	
Description									35 x 20 x 1.0	35 x 20 x 1.5	35 x 25 x 2.0	
Ix (cm ⁴)									1.65	2.15	3.46	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	5.19	5.69	7.00
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	7.77	8.27	9.58

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

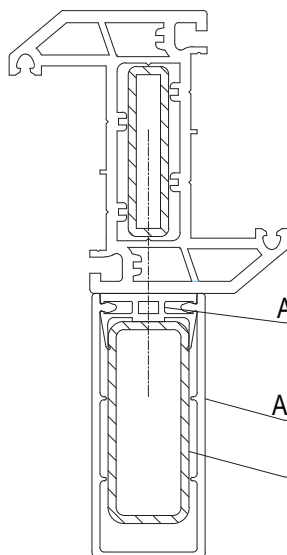
Transom/Mullion Reinforcement Profiles



Art. 561600

Art. 561590

Art. 219060



Art. 561600

Art. 561590

Art. 219060

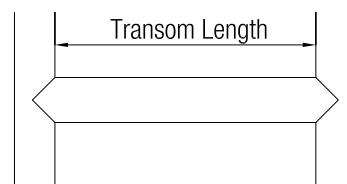


Unreinforced Transoms

The table below defines maximum deadload that can be applied to an unreinforced transom. For reinforced transoms maximum deadload should be calculated separately.

Transom	Unreinforced Max. Weight
546085 546095 546665 546675	16Kg
546475 546465 546745 546755	32Kg

*Unreinforced maximum lengths are measured from upstands.



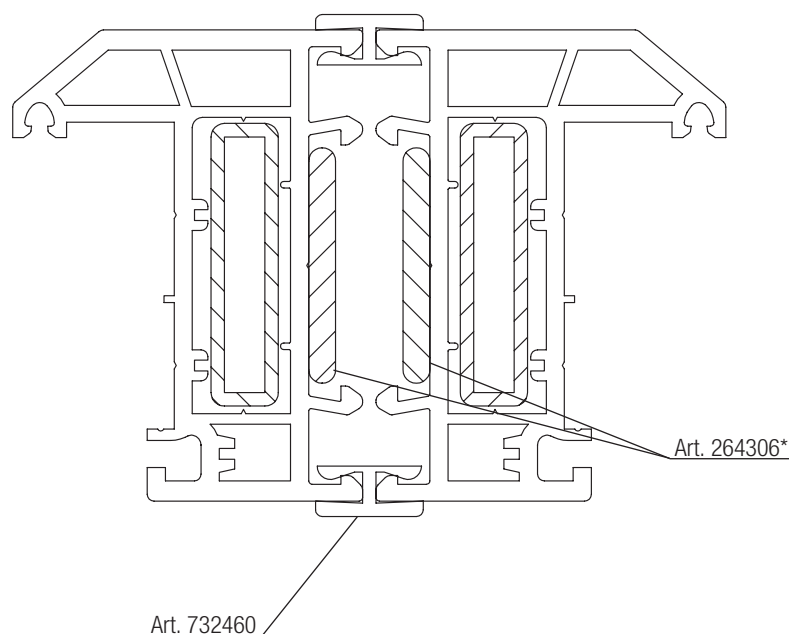
Art -No.										219060	259772	258831*			
Box Steel 50 x 20										50 x 20 x 1.5	50 x 20 x 2.0	50 x 20 x 3.0			
Ix (cm ⁴)										5.52	7.11	9.90			
PVC Transom/Mullion								*Unreinforced Max Length		Steel Reinforcement			Ix combined (cm ⁴)		
REHAU TOTAL70C				REHAU TOTAL70S						Size	Art - No.	Ix (cm ⁴)			
546085 (T)	546095 (Z)	546475 (T)	546465 (Z)	546665 (T)	546675 (Z)	546745 (T)	546755 (Z)	Pa	mm						
x	x			x	x			1200 1600	950 900	42 x 10 x 1.0	249838	1.77	7.29	8.88	11.67
x	x			x	x			2000 2400	850 800	42 x 10 x 2.0	261748	3.06	8.58	10.17	12.96
		x	x			x	x	1200	1000	42 x 23 x 2.5	200347	4.70	10.22	11.81	14.60
		x	x			x	x	1600 2000	950 900	42 x 23 x 2.0	287776	5.14	10.66	12.25	15.04
		x	x			x	x	2400	850	42 x 23 x 2.5	261738	6.06	11.58	13.17	15.96

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm (3 Chamber)



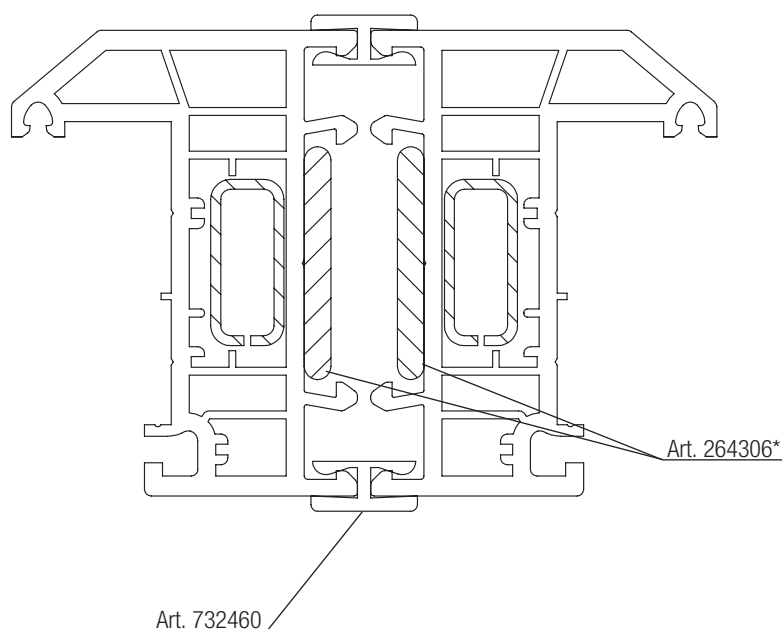
Art - No.										264306*	261801	287798
Description										35 x 5.0 (x2 Flat Br)	35 x 10 x 2.0	35 x 12 x 1.5
Ix (cm ⁴)										1.79	1.88	1.62
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	7.12	5.42	5.16
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	9.70	8.00	7.74
		x			x	42 x 30 x 1.0	249848	3.45	6.90	10.48	8.78	8.52
		x			x	42 x 30 x 1.5	200327	3.98	7.96	11.54	9.84	9.58
		x			x	42 x 23 x 1.5	261958	4.87	9.74	13.32	11.62	11.36

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm (5 Chamber)



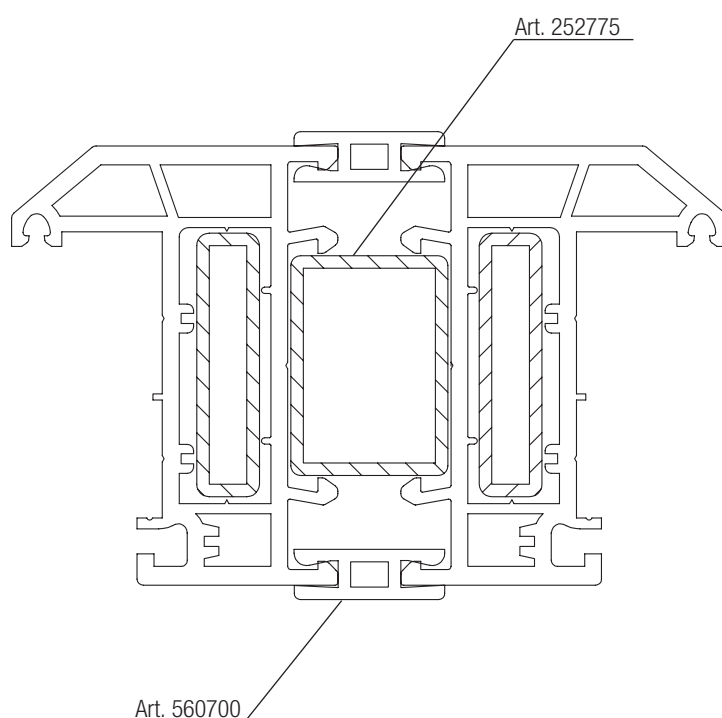
Art - No.									264306*	261801	287798	
Description									35 x 5.0 (x2 Flat Br)	35 x 10 x 2.0	35 x 12 x 1.5	
Ix (cm ⁴)									1.79	1.88	1.62	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546815	546825	546835	546415	546425	546435							
x			x			25 x 11 x 1.5	216391	0.61	1.22	4.80	3.10	2.84
	x			x		25 x 21 x 1.5	219392	1.03	2.06	5.64	3.94	3.68
		x			x	25 x 31 x 1.5	216393	1.44	2.88	6.46	4.76	4.50

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 10mm (3 Chamber)

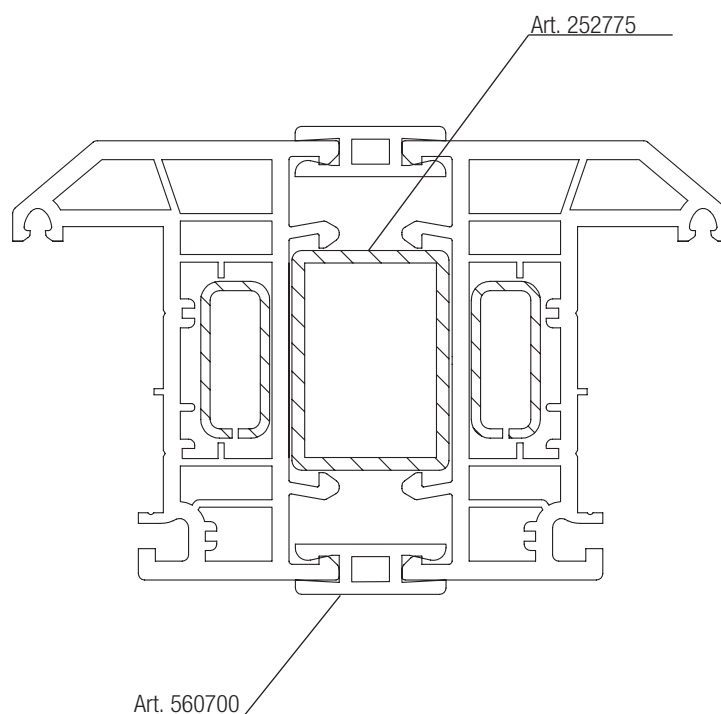


Art - No.										287777	261968	252775
Description										35 x 20 x 1.0	35 x 20 x 1.5	35 x 25 x 2.0
Ix (cm ⁴)										1.65	2.15	3.46
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	5.19	5.69	7.00
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	7.77	8.27	9.58
		x			x	42 x 30 x 1.0	249848	3.45	6.90	8.55	9.05	10.36
		x			x	42 x 30 x 1.5	200327	3.98	7.96	9.61	10.11	11.42
		x			x	42 x 23 x 1.5	261958	4.87	9.74	11.39	11.89	13.20

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 10mm (5 Chamber)

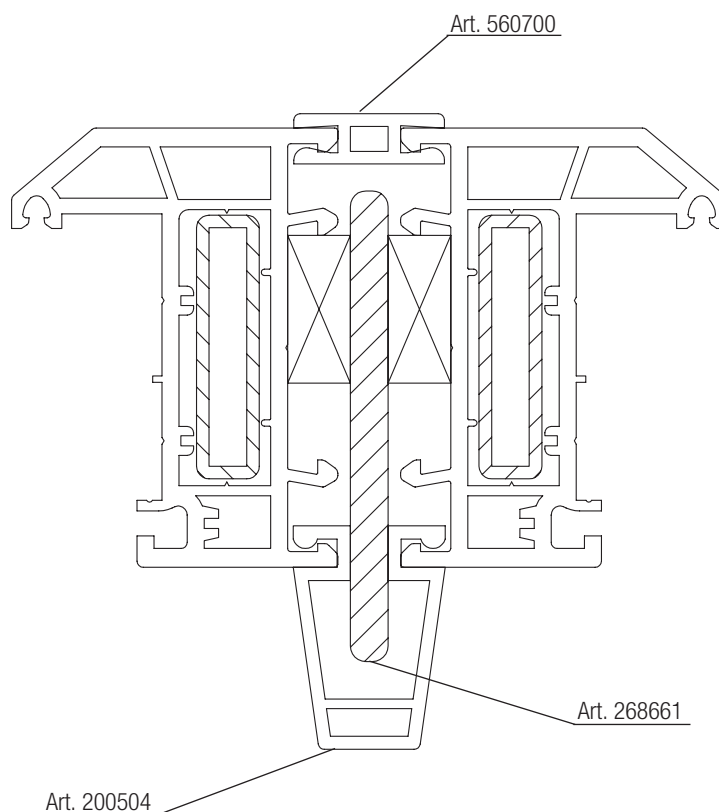


Art - No.										287777	261968	252775
Description										35 x 20 x 1.0	35 x 20 x 1.5	35 x 25 x 2.0
Ix (cm ⁴)										1.65	2.15	3.46
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546815	546825	546835	546415	546425	546435							
x			x			25 x 11 x 1.5	216391	0.61	1.22	2.87	3.37	4.68
	x			x		25 x 21 x 1.5	219392	1.03	2.06	3.71	4.21	5.52
		x			x	25 x 31 x 1.5	216393	1.44	2.88	4.53	5.03	6.34

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 10mm & Top Hat Coupling Profile (3 Chamber)

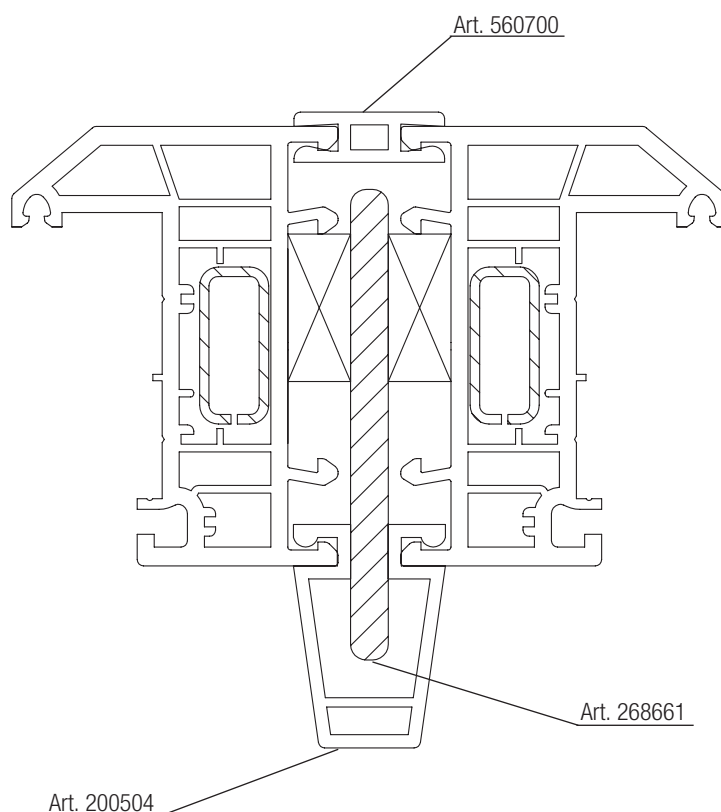


Art - No.									268661	
Flat Bar									75 x 6.0	
Ix (cm ⁴)									21.09	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)	
546075	546605	546185	546645	546735	546655					
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	24.63
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	27.21
		x			x	42 x 30 x 1.0	249848	3.45	6.90	27.99
		x			x	42 x 30 x 1.5	200327	3.98	7.96	29.05
		x			x	42 x 23 x 1.5	261958	4.87	9.74	30.83

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 10mm & Top Hat Coupling Profile (5 Chamber)

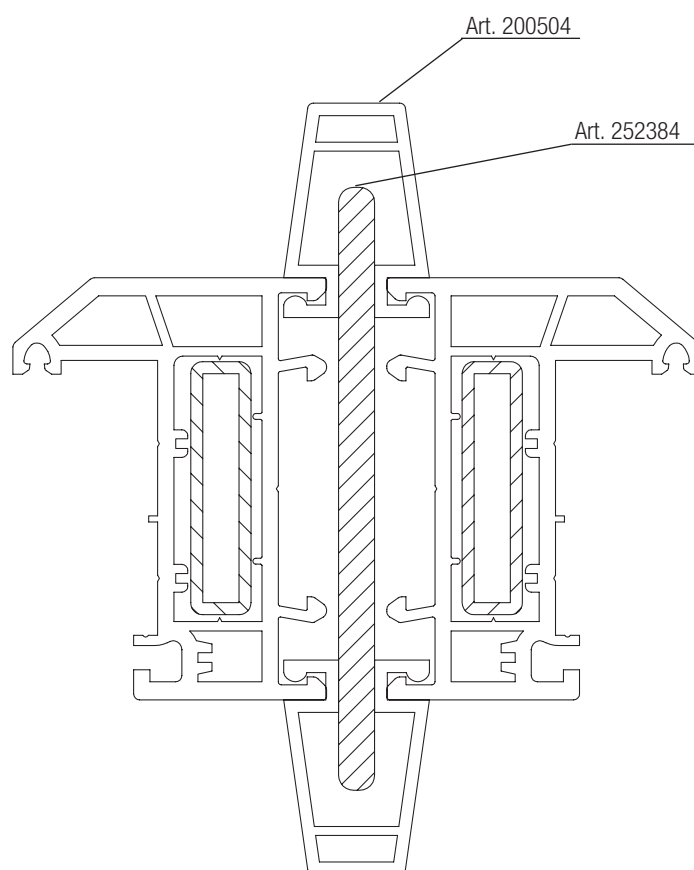


Art - No.									268661	
Flat Bar									75 x 6.0	
Ix (cm ⁴)									21.09	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)	
546815	546825	546835	546415	546425	546435					
x			x			25 x 11 x 1.5	216391	0.61	1.22	22.31
	x			x		25 x 21 x 1.5	219392	1.03	2.06	23.15
		x			x	25 x 31 x 1.5	216393	1.44	2.88	23.97

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Top Hat Coupling Profile - 10mm (3 Chamber)

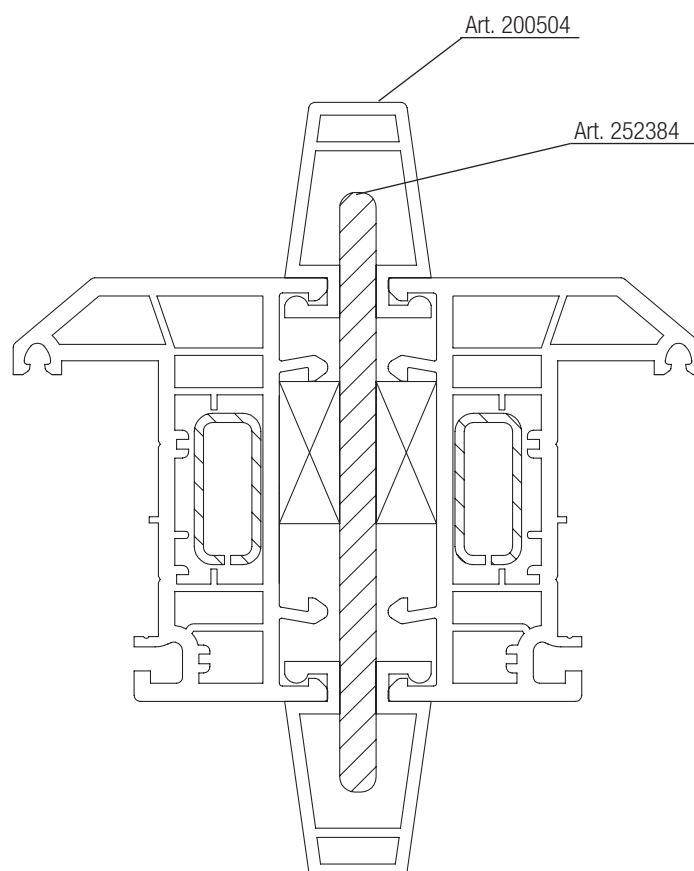


Art - No.									252384	297217	
Flat Bar									100 x 6.0	100 x 6.0 (Folded)	
Ix (cm ⁴)									50.00	47.44	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)		
546075	546605	546185	546645	546735	546655						
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	53.54	50.98
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	56.12	53.56
		x			x	42 x 30 x 1.0	249848	3.45	6.90	56.90	54.34
		x			x	42 x 30 x 1.5	200327	3.98	7.96	57.96	55.40
		x			x	42 x 23 x 1.5	261958	4.87	9.74	59.74	57.18

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Top Hat Coupling Profile - 10mm (5 Chamber)

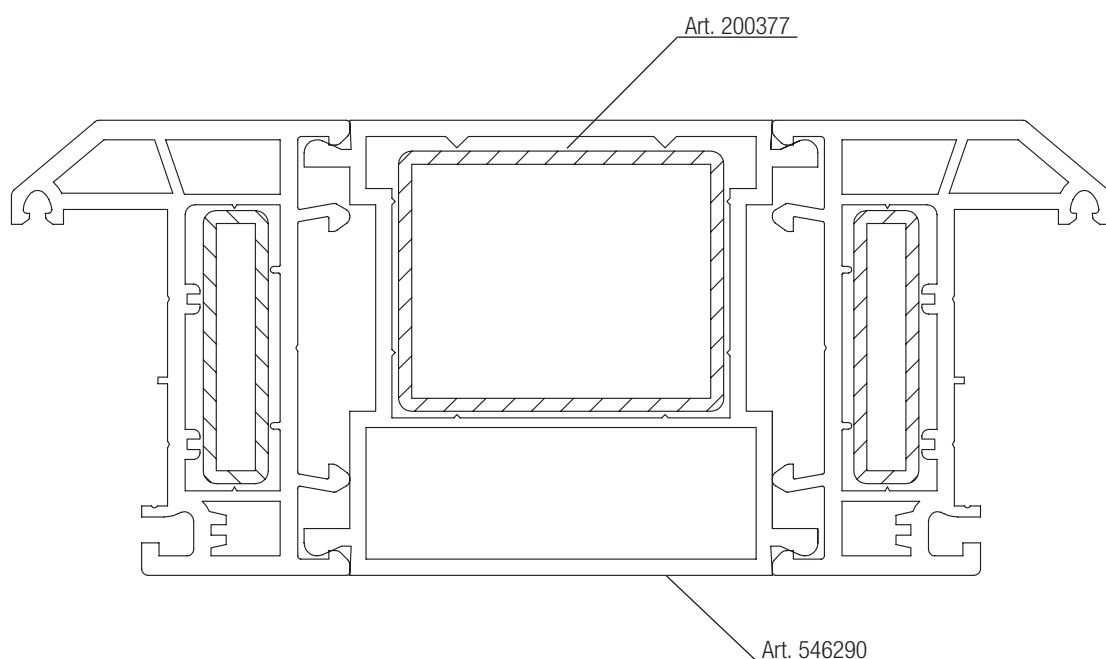


Art - No.									252384	297217	
Flat Bar									100 x 6.0	100 x 6.0 (Folded)	
I _x (cm ⁴)									50.00	47.44	
PVC Outer Frame						Steel Reinforcement				I _x combined (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	I _x (cm ⁴)	Frame Steel (cm ⁴)		
546815	546825	546835	546415	546425	546435						
x			x			25 x 11 x 1.5	216391	0.61	1.22	51.22	48.66
	x			x		25 x 21 x 1.5	219392	1.03	2.06	52.06	49.50
		x			x	25 x 31 x 1.5	216393	1.44	2.88	52.88	50.32

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Frame Extension - 65mm (3 Chamber)

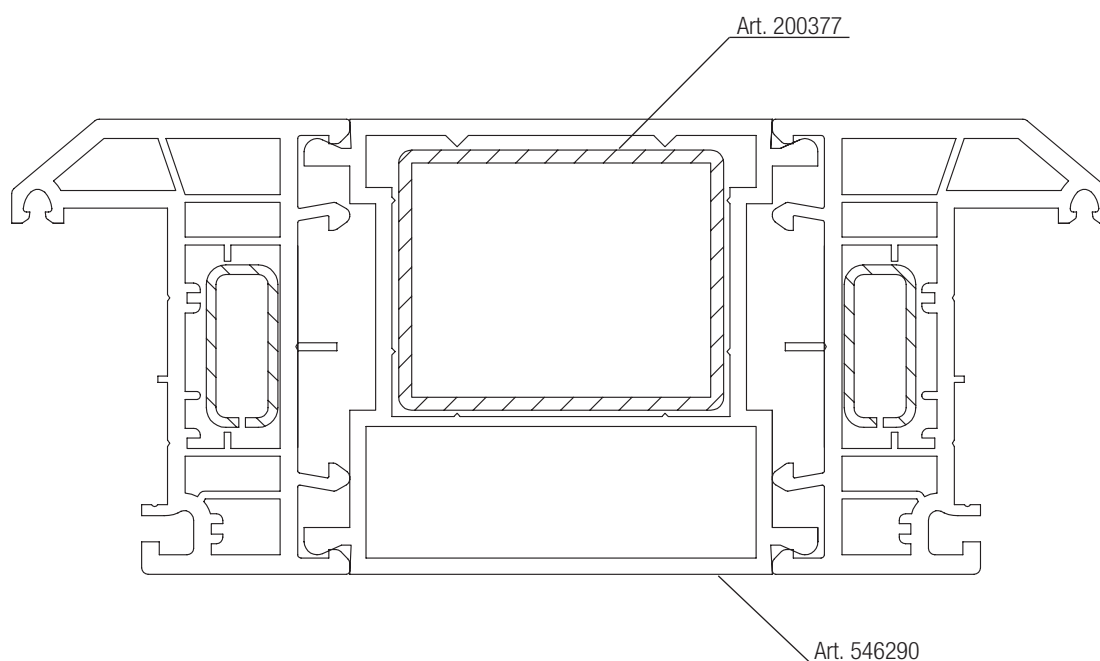


Art - No.										200377	250475/ 251886	253157
Box Steel 50 x 40										50 x 40 x1.5	50 x 40 x 2.0	50 x 40 x 4.0
Ix (cm ⁴)										6.75	8.65	13.70
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	10.29	12.19	17.24
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	12.87	14.77	19.82
		x			x	42 x 30 x 1.0	249848	3.45	6.90	13.65	15.55	20.60
		x			x	42 x 30 x 1.5	200327	3.98	7.96	14.71	16.61	21.66
		x			x	42 x 23 x 1.5	261958	4.87	9.74	16.49	18.39	23.44

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Frame Extension - 65mm (5 Chamber)

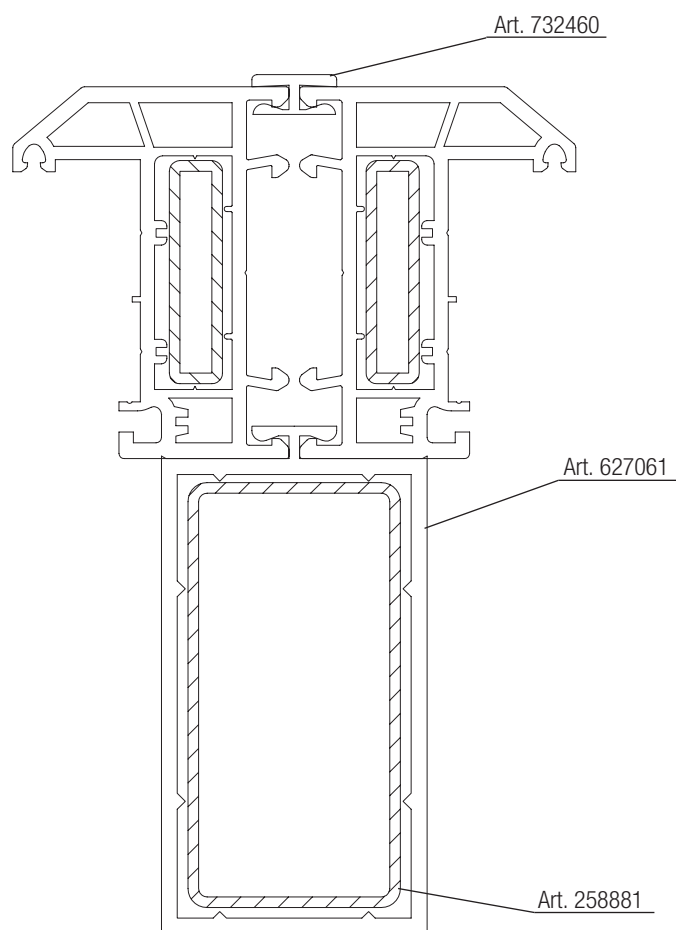


Art - No.									200377	250475/ 251886	253157	
Box Steel 50 x 40									50 x 40 x1.5	50 x 40 x 2.0	50 x 40 x 4.0	
Ix (cm ⁴)									6.75	8.65	13.70	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)		
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546815	546825	546835	546415	546425	546435							
x			x			25 x 11 x 1.5	216391	0.61	1.22	7.97	9.87	14.92
	x			x		25 x 21 x 1.5	219392	1.03	2.06	8.81	10.71	15.76
		x			x	25 x 31 x 1.5	216393	1.44	2.88	9.63	11.53	16.58

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm & Reinforcement Profile 1 (3 Chamber)



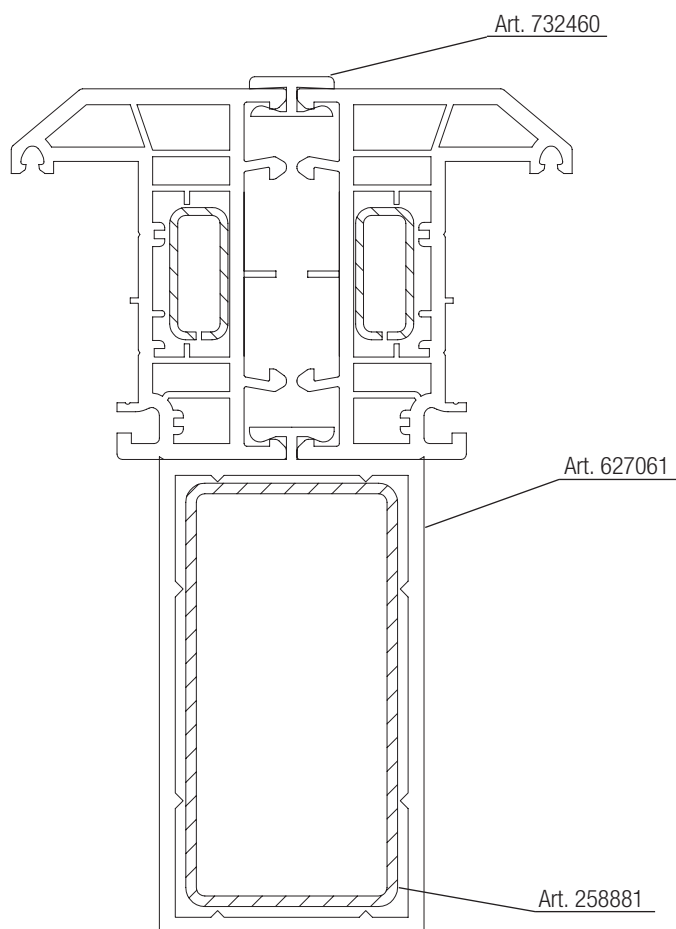
Art - No.									258881	225130*	
Box Steel 80 x 40									80 x 40 x 2.0	80 x 40 x 3.0	
Ix (cm ⁴)									37.40	52.30	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)		
546075	546605	546185	546645	546735	546655						
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	40.94	55.84
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	43.52	58.42
		x			x	42 x 30 x 1.0	249848	3.45	6.90	44.30	59.20
		x			x	42 x 30 x 1.5	200327	3.98	7.96	45.36	60.26
		x			x	42 x 23 x 1.5	261958	4.87	9.74	47.14	62.04

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm & Reinforcement Profile 1 (5 Chamber)



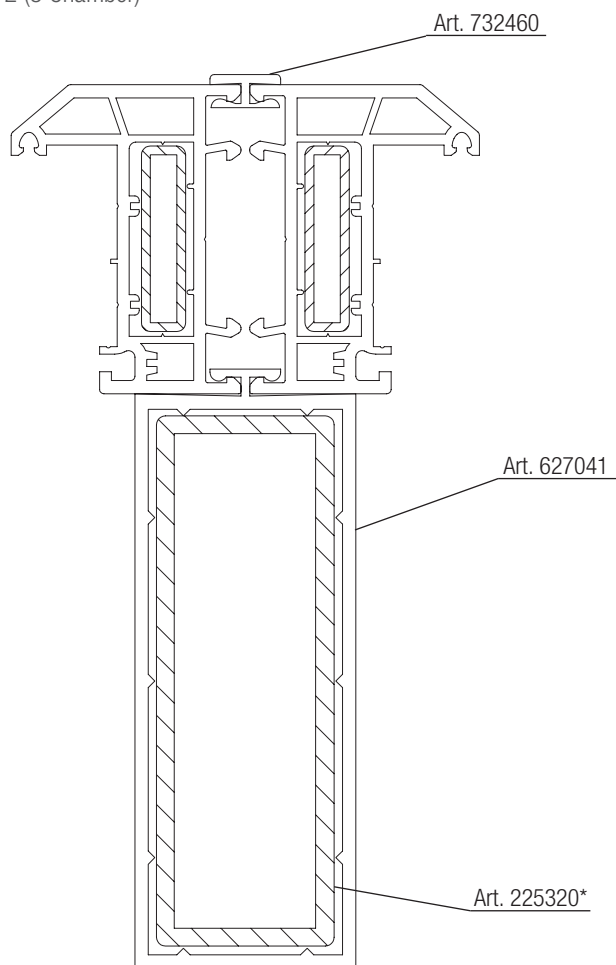
Art - No.									258881	225130*	
Box Steel 80 x 40									80 x 40 x 2.0	80 x 40 x 3.0	
Ix (cm ⁴)									37.40	52.30	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)		
546815	546825	546835	546415	546425	546435						
x			x			25 x 11 x 1.5	216391	0.61	1.22	38.62	53.52
	x			x		25 x 21 x 1.5	219392	1.03	2.06	39.46	54.36
		x			x	25 x 31 x 1.5	216393	1.44	2.88	4.28	55.18

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm & Reinforcement Profile 2 (3 Chamber)



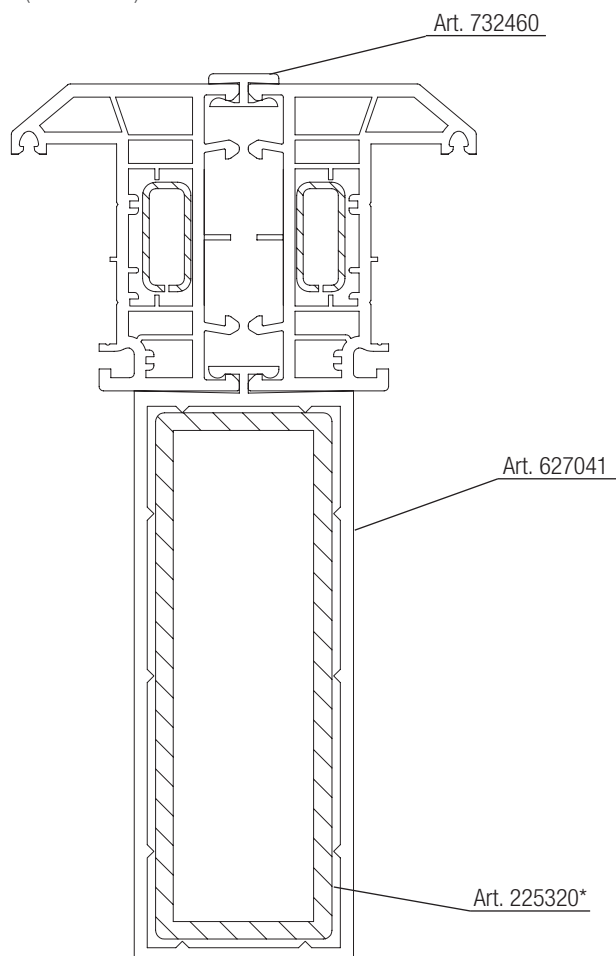
Art - No.										225320*	225330*	258614	225350*
Box Steel 120 x 40										120 x 40 x 2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0
I _x (cm ⁴)										103.00	148.00	187	221.00
PVC Outer Frame						Steel Reinforcement				I _x combined (cm ⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	I _x (cm ⁴)	Frame Steel (cm ⁴)				
546075	546605	546185	546645	546735	546655								
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	106.54	151.54	190.54	224.54
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	109.12	154.12	193.12	227.12
		x			x	42 x 30 x 1.0	249848	3.45	6.90	109.90	154.90	193.90	227.90
		x			x	42 x 30 x 1.5	200327	3.98	7.96	110.96	155.96	194.96	228.96
		x			x	42 x 23 x 1.5	261958	4.87	9.74	112.74	157.74	196.74	230.74

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Joining Profile - 2mm & Reinforcement Profile 2 (5 Chamber)



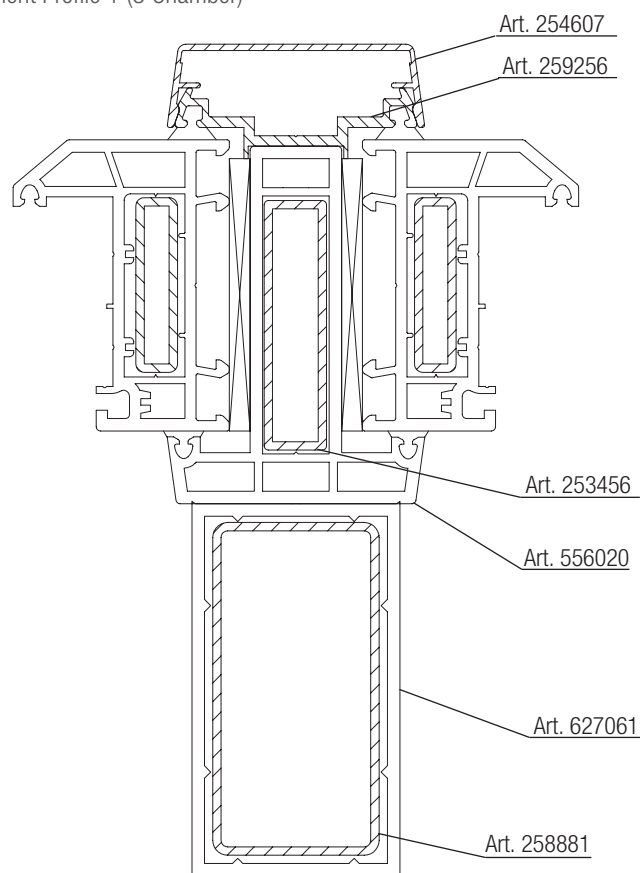
Art - No.										225320*	225330*	258614	225350*
Box Steel 120 x 40										120 x 40 x 2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0
lx (cm ⁴)										103.00	148.00	187	221.00
PVC Outer Frame						Steel Reinforcement				lx combined (cm ⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	lx (cm ⁴)	Frame Steel (cm ⁴)				
546815	546825	546835	546415	546425	546435								
x			x			25 x 11 x 1.5	216391	0.61	1.22	104.22	149.22	188.22	222.22
	x			x		25 x 21 x 1.5	219392	1.03	2.06	105.06	150.06	189.06	223.06
		x			x	25 x 31 x 1.5	216393	1.44	2.88	105.88	150.88	189.88	223.88

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 62mm & Reinforcement Profile 1 (3 Chamber)



I_x combined = Frame steel + 253456

I_x combined with 80 x 40 box = Frame steel + 253456 + 80 x 40 box.

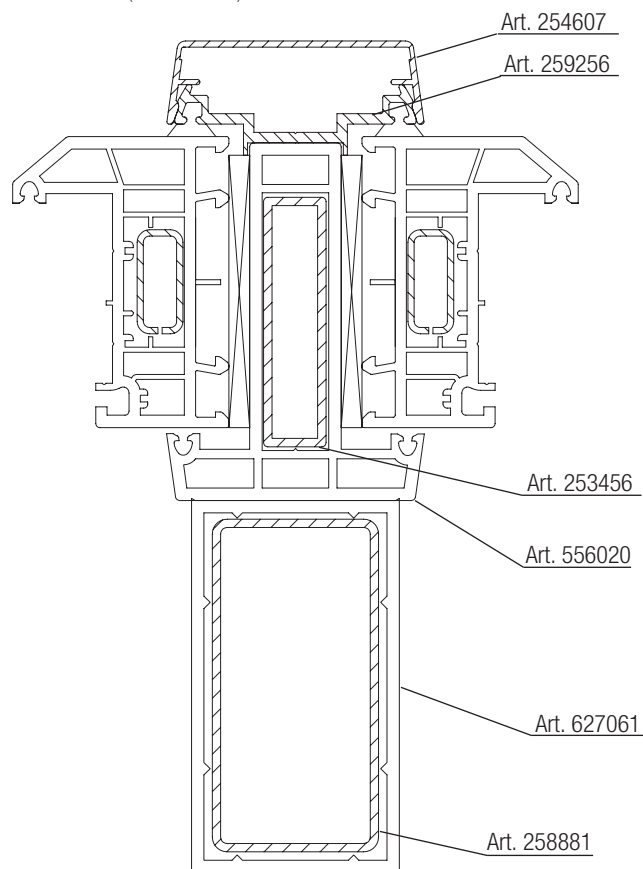
Art - No.										253456	258881	225130*
Description										60 x 15 x 2.0	80 x 40 x2.0	80 x 40 x 3.0
Ix (cm ⁴)										9.70	37.40	52.30
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	Ix combined with 80 x 40 box steel (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	13.24	50.64	65.54
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	15.82	53.22	68.12
		x			x	42 x 30 x 1.0	249848	3.45	6.90	16.60	54.00	68.90
		x			x	42 x 30 x 1.5	200327	3.98	7.96	17.66	55.06	69.96
		x			x	42 x 23 x 1.5	261958	4.87	9.74	19.44	56.84	71.74

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 62mm & Reinforcement Profile 1 (5 Chamber)



I_x combined = Frame steel + 253456

I_x combined with 80 x 40 box = Frame steel + 253456 + 80 x 40 box.

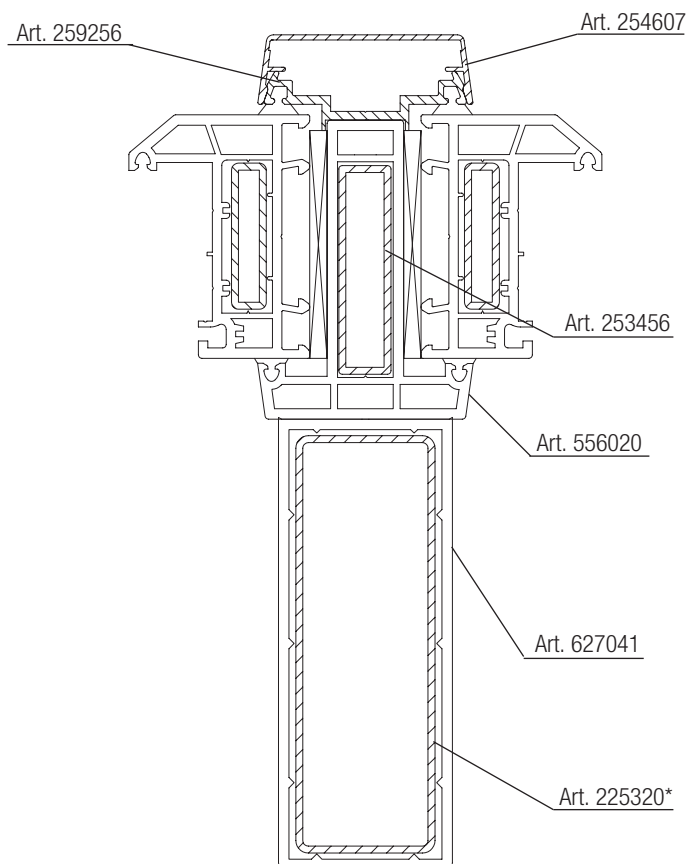
Art - No.									253456	258881	225130*	
Description									60 x 15 x 2.0	80 x 40 x2.0	80 x 40 x 3.0	
Ix (cm⁴)									9.70	37.40	52.30	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm⁴)	Ix combined with 80 x 40 box steel (cm⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm⁴)	Frame Steel (cm⁴)			
546815	546825	546835	546415	546425	546435							
x			x			25 x 11 x 1.5	216391	0.61	1.22	10.92	48.32	63.22
	x			x		25 x 21 x 1.5	219392	1.03	2.06	11.76	49.16	64.06
		x			x	25 x 31 x 1.5	216393	1.44	2.88	12.58	49.98	64.88

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 62mm & Reinforcement Profile 2 (3 Chamber)



lx combined = Frame steel + 253456

lx combined with 120 x 40 box = Frame steel + 253456 + 120 x 40 box.

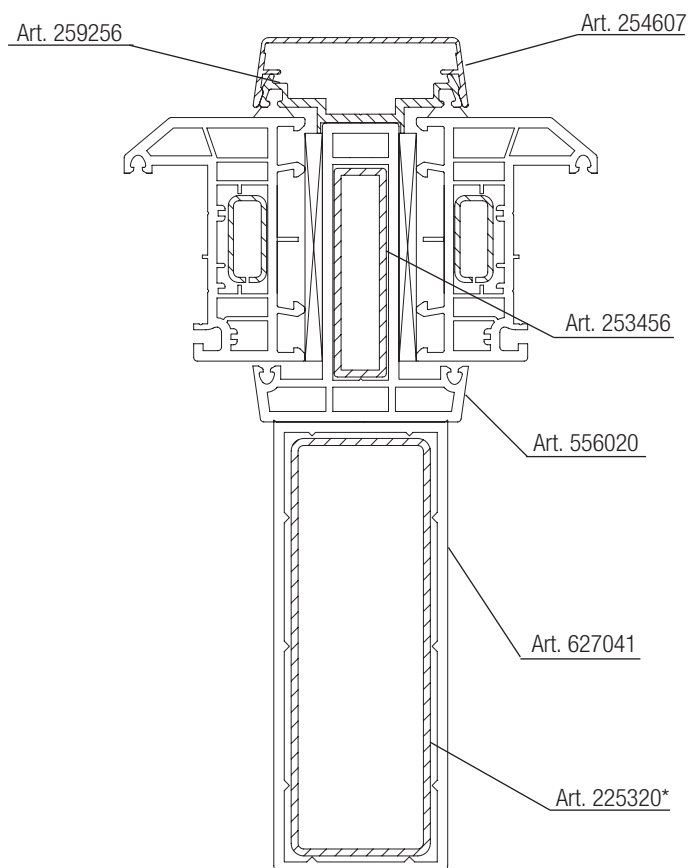
Art - No.										253456	225320*	225330*	258614	225350*
Description										60 x 15 x 2.0	120 x 40 x2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0
lx (cm ⁴)										9.70	103.00	148.00	187.00	221.00
PVC Outer Frame						Steel Reinforcement				lx combined (cm ⁴)	lx combined with 120 x 40 box steel (cm ⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	lx (cm ⁴)	Frame Steel (cm ⁴)					
546075	546605	546185	546645	546735	546655									
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	13.24	116.24	161.24	200.24	234.24
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	15.82	118.82	163.82	202.82	236.82
		x			x	42 x 30 x 1.0	249848	3.45	6.90	16.60	119.60	164.60	203.60	237.60
		x			x	42 x 30 x 1.5	200327	3.98	7.96	17.66	120.66	165.66	204.66	238.66
		x			x	42 x 23 x 1.5	261958	4.87	9.74	19.44	122.44	167.44	206.44	240.44

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REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 62mm & Reinforcement Profile 2 (5 Chamber)



lx combined = Frame steel + 253456

lx combined with 120 x 40 box = Frame steel + 253456 + 120 x 40 box.

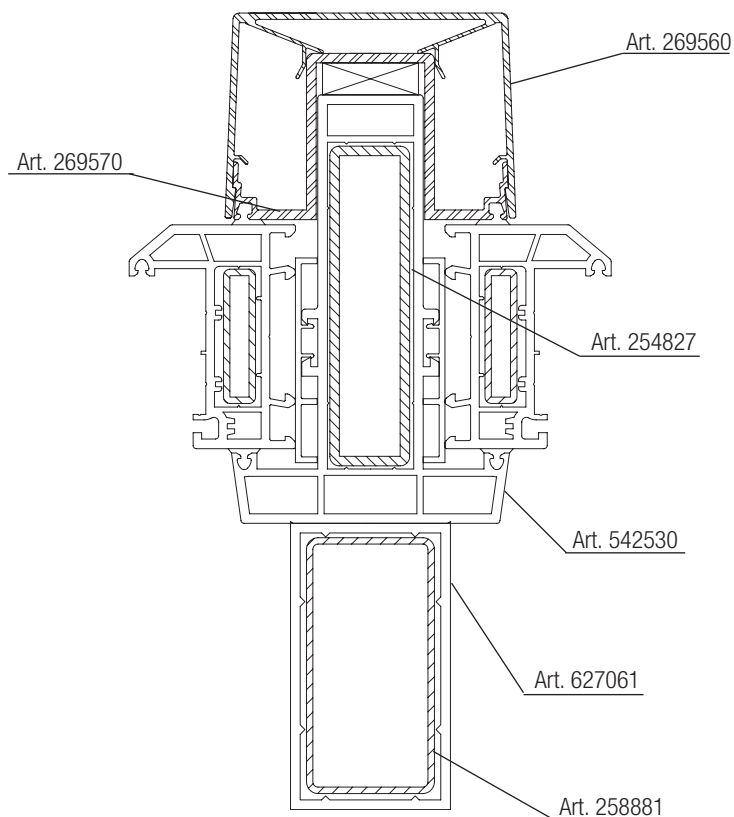
Art - No.										253456	225320*	225330*	258614	225350*
Description										60 x 15 x 2.0	120 x 40 x2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0
Ix (cm ⁴)										9.70	103.00	148.00	187.00	221.00
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	Ix combined with 120 x 40 box steel (cm ⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)					
546815	546825	546835	546415	546425	546435									
x			x			25 x 11 x 1.5	216391	0.61	1.22	10.92	113.92	158.92	197.98	231.92
	x			x		25 x 21 x 1.5	219392	1.03	2.06	11.76	114.76	159.76	198.76	232.76
		x			x	25 x 31 x 1.5	216393	1.44	2.88	12.58	115.58	160.58	199.58	233.58

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 87mm & Reinforcement Profile 1 (3 Chamber)



I_x combined = Frame steel + 254827

I_x combined with 80 x 40 box = Frame steel + 254827 + 80 x 40 box.

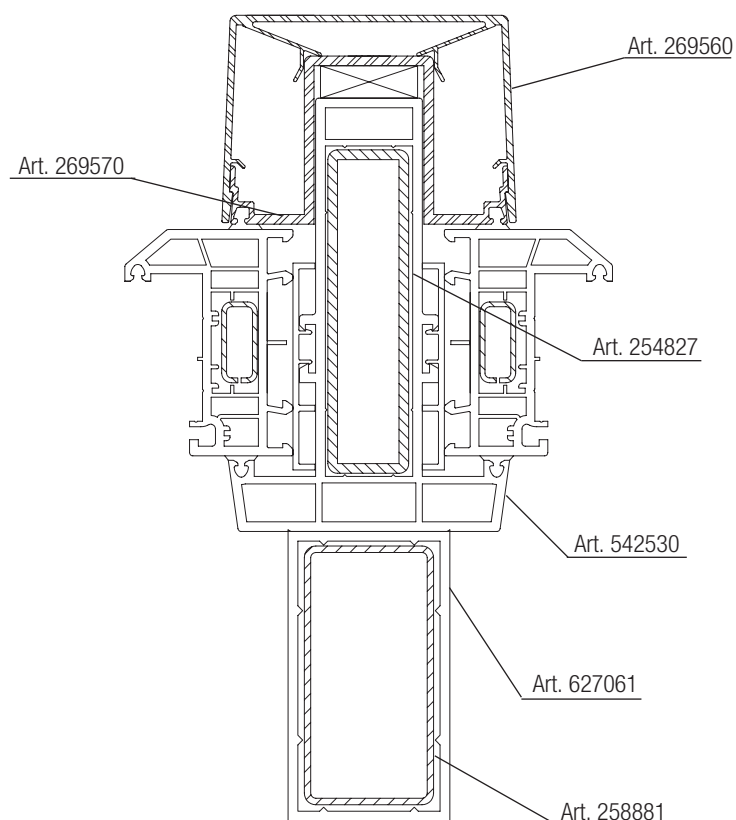
Art - No.										254827	258881	225130*
Description										100 x 25 x 3.0	80 x 40 x2.0	80 x 40 x 3.0
Ix (cm ⁴)										73.60	37.40	52.30
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	Ix combined with 80 x 40 box steel (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546075	546605	546185	546645	546735	546655							
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	77.14	114.54	129.44
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	79.72	117.12	132.02
		x			x	42 x 30 x 1.0	249848	3.45	6.90	80.50	117.90	132.80
		x			x	42 x 30 x 1.5	200327	3.98	7.96	81.56	118.96	133.86
		x			x	42 x 23 x 1.5	261958	4.87	9.74	83.34	120.74	135.64

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 87mm & Reinforcement Profile 1 (5 Chamber)



I_x combined = Frame steel + 254827

I_x combined with 80 x 40 box = Frame steel + 254827 + 80 x 40 box.

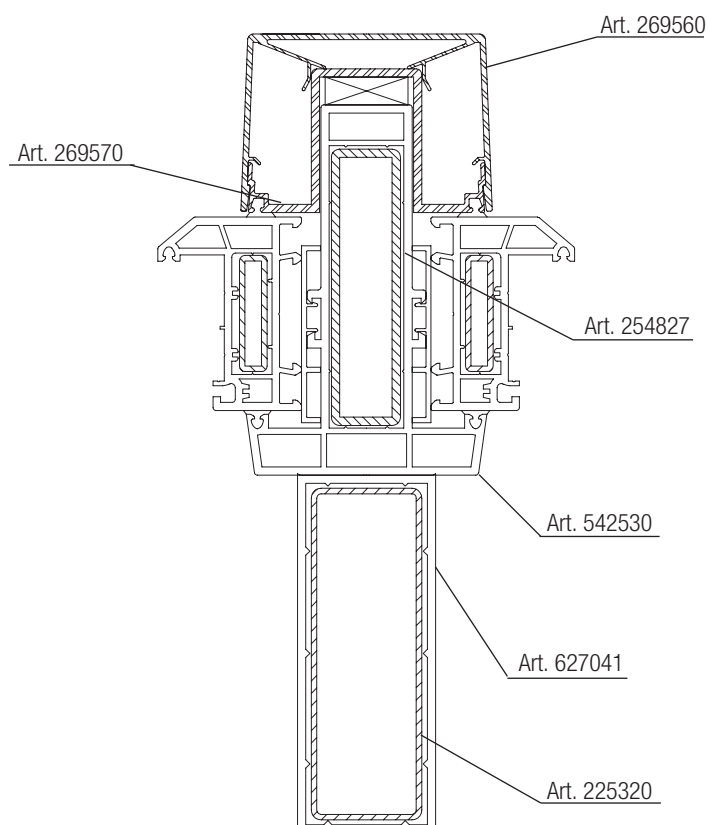
Art - No.										254827	258881	225130*
Description										100 x 25 x 3.0	80 x 40 x2.0	80 x 40 x 3.0
Ix (cm ⁴)										73.60	37.40	52.30
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	Ix combined with 80 x 40 box steel (cm ⁴)	
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)			
546815	546825	546835	546415	546425	546435							
x			x			25 x 11 x 1.5	216391	0.61	1.22	74.82	112.22	127.12
	x			x		25 x 21 x 1.5	219392	1.03	2.06	75.66	113.06	127.96
		x			x	25 x 31 x 1.5	216393	1.44	2.88	76.48	113.88	128.78

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REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 87mm & Reinforcement Profile 2 (3 Chamber)



lx combined = Frame steel + 254827

lx combined with 120 x 40 box = Frame steel + 254827 + 120 x 40 box.

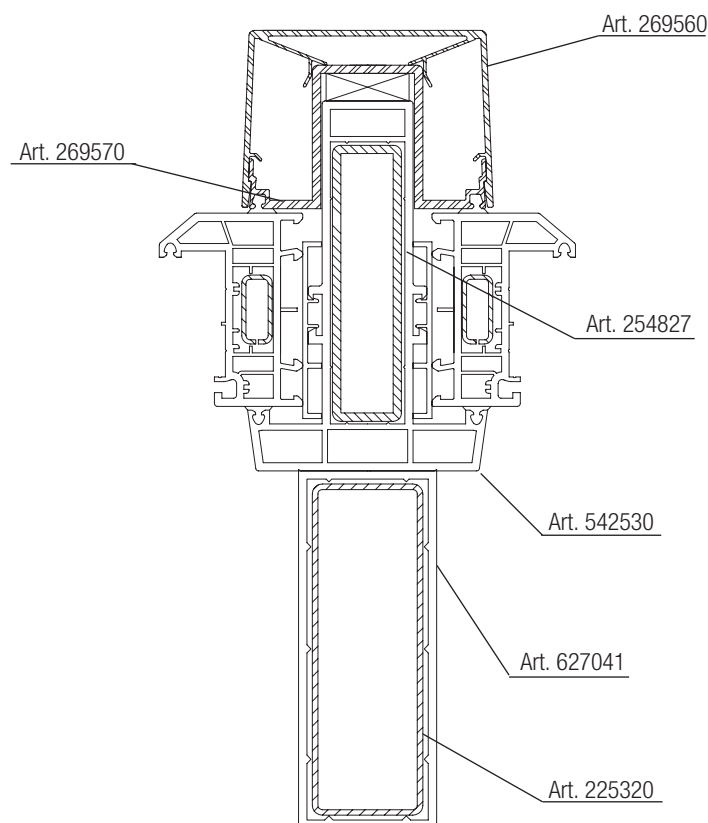
Art - No.										254827	225320	225330*	258614	225350*
Description										100 x 25 x 3.0	120 x 40 x2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0
Ix (cm ⁴)										73.60	103.00	148.00	187.00	221.00
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)	Ix combined with 80 x 40 box steel (cm ⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)					
546075	546605	546185	546645	546735	546655									
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	77.14	180.14	225.14	264.14	298.14
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	79.72	182.72	227.72	266.72	300.72
		x			x	42 x 30 x 1.0	249848	3.45	6.90	80.50	183.50	228.50	267.50	301.50
		x			x	42 x 30 x 1.5	200327	3.98	7.96	81.56	184.56	229.56	268.56	302.56
		x			x	42 x 23 x 1.5	261958	4.87	9.74	83.34	186.34	231.34	270.34	304.34

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 87mm & Reinforcement Profile 2 (5 Chamber)



I_x combined = Frame steel + 254827

I_x combined with 120 x 40 box = Frame steel + 254827 + 120 x 40 box.

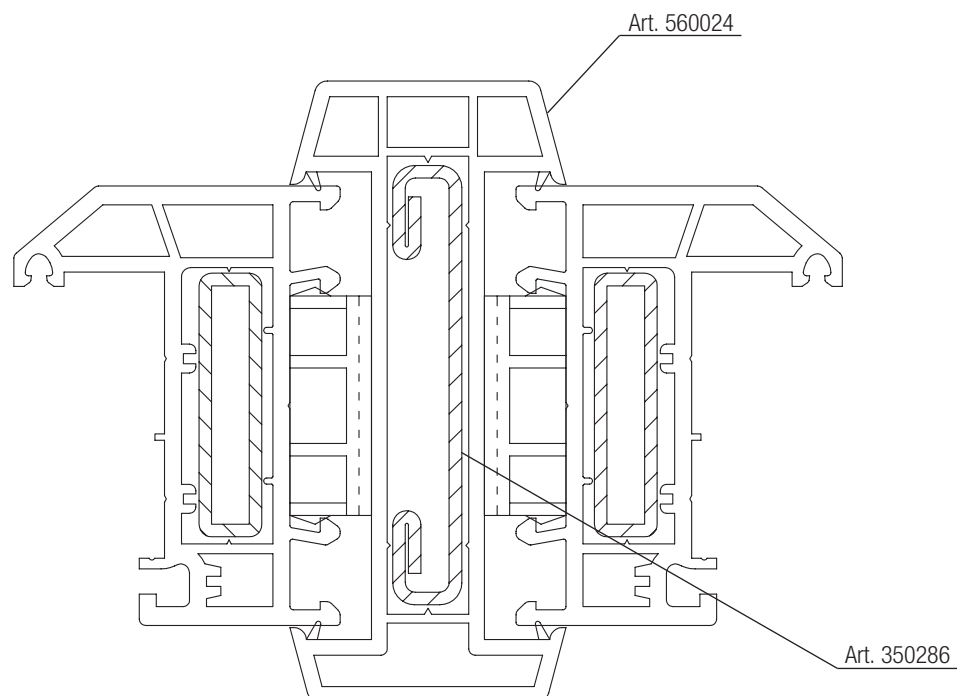
Art - No.									254827	225320	225330*	258614	225350*	
Description									100 x 25 x 3.0	120 x 40 x2.0	120 x 40 x 3.0	120 x 40 x 4.0	120 x 40 x 5.0	
Ix (cm⁴)									73.60	103.00	148.00	187.00	221.00	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm⁴)	Ix combined with 80 x 40 box steel (cm⁴)			
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm⁴)	Frame Steel (cm⁴)					
546815	546825	546835	546415	546425	546435									
x			x			25 x 11 x 1.5	216391	0.61	1.22	74.82	177.82	222.82	261.82	295.82
	x			x		25 x 21 x 1.5	219392	1.03	2.06	75.66	178.66	223.66	262.66	296.66
		x			x	25 x 31 x 1.5	216393	1.44	2.88	76.48	179.48	224.48	263.48	297.48

* Denotes available as special order - Not a standard stock item - Please refer to sales offices for minimum order quantities, lead times and prices.

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 89mm (3 Chamber)

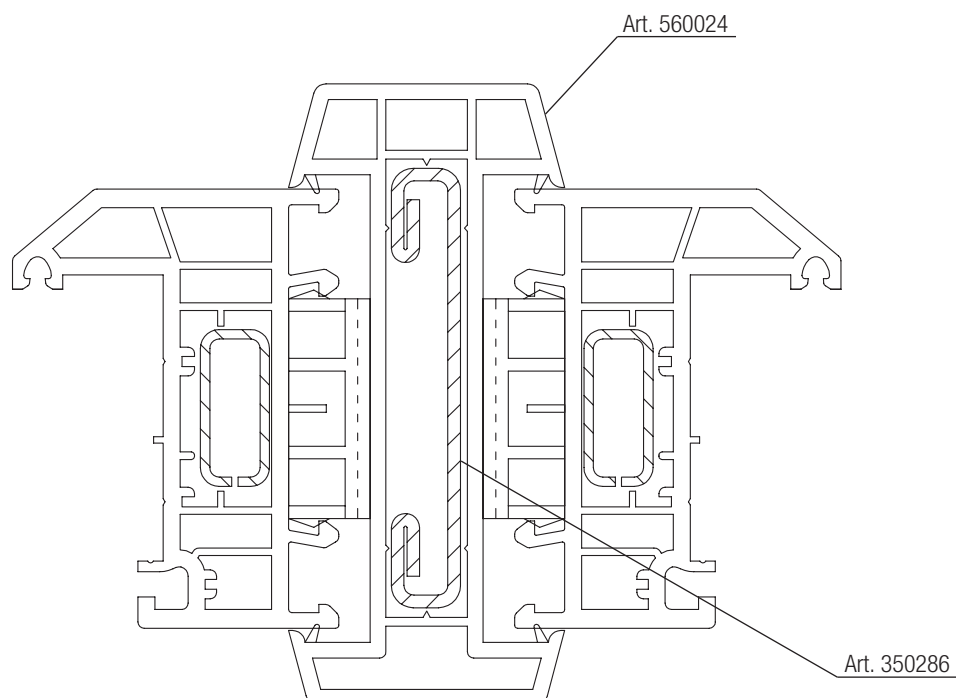


Art - No.										350286
Description										70 x 11 x 2.0
Ix (cm ⁴)										15.00
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)	
546075	546605	546185	546645	546735	546655					
x	x		x	x		42 x 10 x 1.0	249838	1.77	3.54	18.54
x	x		x	x		42 x 10 x 2.0	261748	3.06	6.12	21.12
		x			x	42 x 30 x 1.0	249848	3.45	6.90	21.90
		x			x	42 x 30 x 1.5	200327	3.98	7.96	22.96
		x			x	42 x 23 x 1.5	261958	4.87	9.74	24.74

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Expansion Coupler - 89mm (5 Chamber)

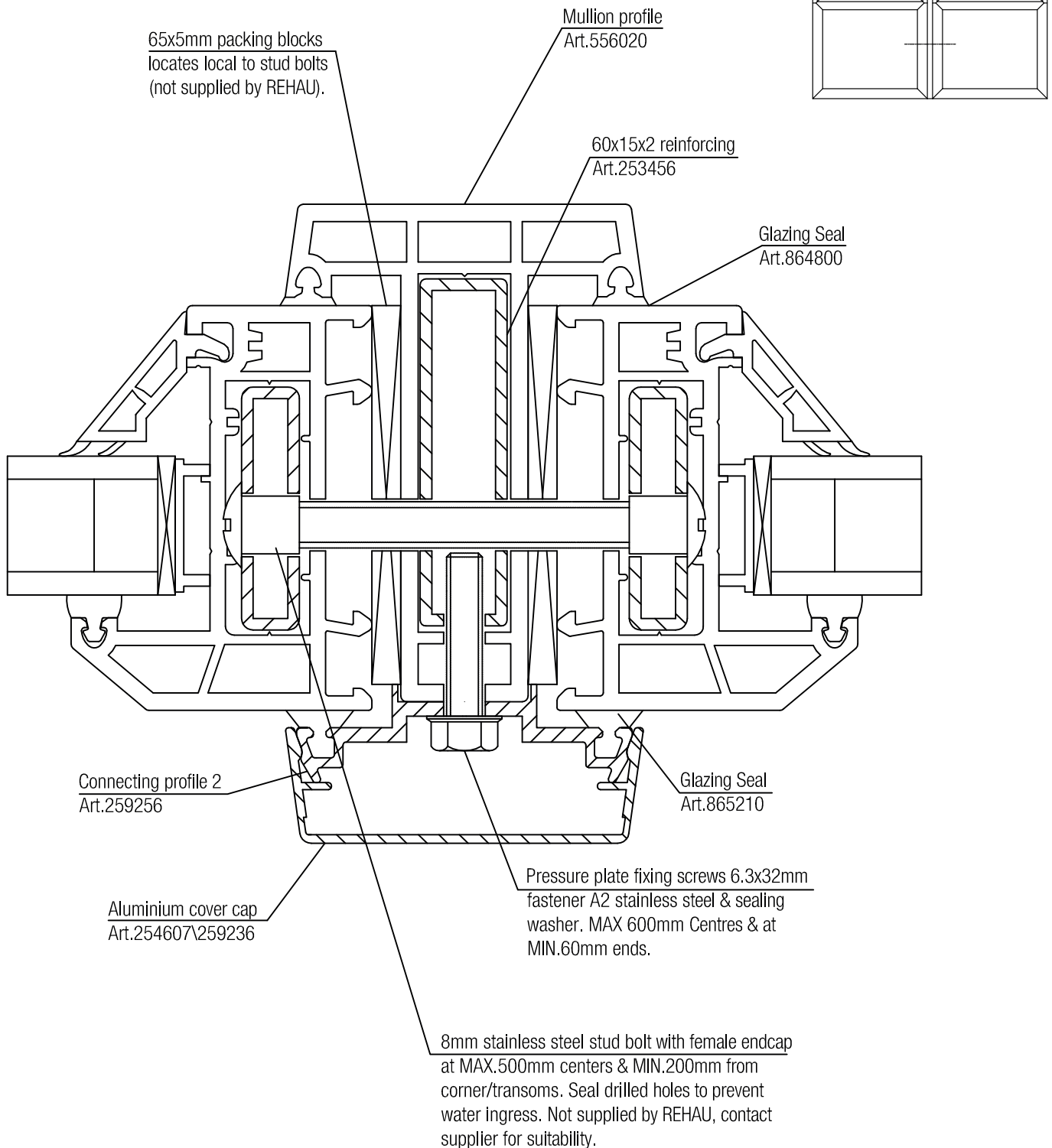


Art - No.									350286	
Description									70 x 11 x 2.0	
Ix (cm ⁴)									15.00	
PVC Outer Frame						Steel Reinforcement				Ix combined (cm ⁴)
REHAU TOTAL70C			REHAU TOTAL70S			Size	Art - No.	Ix (cm ⁴)	Frame Steel (cm ⁴)	
546815	546825	546835	546415	546425	546435					
x			x			25 x 11 x 1.5	216391	0.61	1.22	16.22
	x			x		25 x 21 x 1.5	219392	1.03	2.06	17.06
		x			x	25 x 31 x 1.5	216393	1.44	2.88	17.88

REHAU TOTAL70C & REHAU TOTAL70S

TRANSOMS, MULLIONS & COUPLERS

Assembly Example



ix combined values given are **ONLY** achieved with adequate fastening of sections as shown above. Application of screws & studs used should be checked with manufacturer.

REHAU TOTAL70 WINDOW AND DOOR SYSTEM

NOTES

UK & IRELAND SALES OFFICES

London, REHAU Ltd, The Building Centre, 25 Store Street, London WC1E 7BT Phone: 0207 580 6155 Fax: 0207 307 8595 **Slough**, Units 5 J & K, Langley Business Centre, Station Road, Langley, Slough SL3 8DS Phone: 01753 588500 Fax: 01753 588501 **Manchester**, Brinell Drive, Irlam, Manchester M44 5BL Phone: 0161 777 7400 Fax: 0161 777 7401 **Glasgow**, Phoenix House, Phoenix Crescent, Strathclyde Business Park, Bellshill, North Lanarkshire ML4 3NJ Phone: 01698 503700 Fax: 01698 503701 **Dublin**, 9 St. Johns Court, Business Park, Swords Road, Santry, Dublin 9 Phone: 00353 (0)1 8165020 Fax: 00353 (0)1 8165021

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