ELITE GROUP OF COMPANIES

Innovation and leadership are two terms usually associated with Elite Group of Companies. Driven by passion and dedication, we offer you world class products, solutions and systems in aluminum architectural & non architectural applications. The role of fine-tuned solutions in construction is huge. Whatever the size of the business may be, companies need top quality services that the professional team at Elite Group promise. When it comes to end-to-end solutions and professional management expertise, Elite Group of Companies has always given its best.

An ISO 9001:2008 certified organizations; our group has been at the apex of providing a vast array of commendable services. Since its inception, the endeavor for each group' subsidiary has been to deliver excellence in terms of quality products and services.
Continuous investments and continuous process improvement aim, we have been successful at making a positive impact on our global customers through sheer dedication and commitment.

Elite Group has developed a stronghold in the international arena. Innovation, integrity, and respect, defines our culture. We have an extensive network of clientele that seek our in-house expertise in all necessary disciplines. With a strong management ethos and
adopting a proactive approach, we have successfully catered to every demand and requirement of our valuable customers. This evolution is continuing through an increasing focus on the mentioned scope in which Elite group of companies has taken the lead.

Elite Group takes pride in being a unique organization that has the capability to link the raw material with end user. Our subsidiaries can transform the base material into the defined application, in a continuous supply chain.

The core competencies of the Elite Group include several manufacturing plants equipped with state-of-the art European technology for a full group capacity of more than 60,000 MT/year of production of extruded profiles and 24,000 MT/year of aluminum rolled products.

Premises and staff to control the extrusion lines and the continuous rolling casters along with ancillary and support equipment, makes Elite Group one of the main player in the Middle East aluminum industry to cater the global demand.

Group coating capacity is about 55,000 MT/year with 4 coating lines for profiles, 1 coating line for coils, in addition to the wood coating line and anodizing line for profiles finishing. The extrusion is supported with 3 die shops for design, manufacturing and correction of the tools. Furthermore engineering and calculation offices to serve and support the customer requirements.

INTRODUCTION TO SYSTEM

Elite Group is oriented to fulfill the obligation to both its customers and to the community at large. Accordingly, while we have been developing aluminium profiles for the general use, we introduced the ecofriendly and energy saving thermally broken profiles; the **ECO-500 Series.**

The ECO-500 Series comes in sliding and casement options.

While the profiles are automatically guaranteed for superior quality by strict adherence to quality standards on the in-house manufacturing process, the thermal insulating polyamide strips are imported directly from world class European suppliers. The system in Euro-groove compatible and hence, goes with standard European accessories suppliers.

If need, our Technical Department can render all technical support and service.

The improved version **ECO-500 Series**, which superseds the earlier issue, has been engineered to synergize aesthetics with case of fabrication.

Please note we have withdrawn the earlier version of the catalogue and hence, customers are requested to order based only on this updated catalogue.

ECO - 500

THERMALLY BROKEN SLIDING SERIES

Contents

ECO - 500 SLIDING

Certificate of Testing

THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

Certificate Number: CHF02

Date: 2007, June

Project: Seven Tides Ibn Batuta Complex
at Gardens Mall

System Supplier: Al Hamad Industries Co.,
(L.L.C.)
Extrusion Division
P.O. Box 6275
Sharjah, U.A.E.

System: ECO - 500 Thermal Break Sliding Window

Tested for:

Air Infiltration	Pass
Static Water Penetration	Pass
Structural Load	Pass
Operation Force Test	Pass
Structural Load to Safety	Pass

Notes: Testing conducted in accordance with ASTM, or industry standards.
This certificate to be read in conjunction with the full report of testing.
Refer to report for performance criteria.

Thomas Bell-Wright International Consultants

Sandy Dweik
Quality Manager

Clarence P. Facun
Testing Engineer

Date: 19 June 2007

P.O. BOX 26385 DUBAI, U.A.E. TEL: (+9714) 333-2692 FAX: (+9714) 333-2693 WEB: www.bell-wright.com

Test Certificate of Sliding Window

a. Air infiltration test

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

AIR INFILTRATION TEST ASTM E 283

Monday, April 30, 2007
9:30:00 AM — Reset Date

AMBIENT CONDITIONS

Air Temperature	37 °C	Barometric Pressure	10.15 mb	Relative Humidity	15 %
Wind Speed	m/s	Wind Direction	Deg		

TESTING ENGINEER

Clark Facun

SPECIMEN TEST CRITERIA

Width	1.3 m	Height	1.4 m
Test Pressure	300 Pa		
Area	1.82 m²		
Length of opening joint	0.0 m		
Permitted Leakage area	2.00 m³/hr/m²		
Permitted Leakage(Meter opening joint)	0.0 m³/hr/m		
Total permitted Leakage	3.6 m³/hr		

Inlet Nozzle Size	56 mm		
Nozzle Connection	A- PT L1		
Chamber Connection	B- PT L2		

Update Links

Zero Pressure

READINGS — SEAL WITH POLYETHYLENE

Chamber Pressure	300 Pa	Display 1	
Nozzle Pressure	34 Pa		
Differential Pressure	0 Pa		
Flow	0 m3/hr	Stop 1	
Nozzle Flow	62.2 m3/hr		
Data Recorded at	9:50:00 AM		

READINGS — WITHOUT POLYETHYLENE

Chamber Pressure	300 Pa	Display 2	
Nozzle Pressure	82 Pa		
Differential Pressure	266 Pa		
Flow	175 m3/hr	Stop 2	
Nozzle Flow	96.7 m3/hr		
Data Recorded at	10:40:00 AM		

SUMMARY RESULTS

Permitted Leakage	4 m³/hr	Specimen Leakage	34.55 m³/hr	
Conclusion	Pass			Signature

b. Static water penetration test

PROJECT NAME: SEVEN TIDES, IBN BATTUTA COMPLEX

STATIC WATER PENETRATION TEST to ASTM E 331

Reset Date — Monday, 30 April 2007 10:55:00 AM

AMBIENT CONDITIONS

Air Temperature 39 ºC | Barometric Pressure 10.14 mb | Relative Humidity 15 %

Wind Speed m/s

SPECIMEN TEST CRITERIA

TESTING ENGINEER

Clark Facun

Width 1.3 m | Height 1.4 m

The spray rack will consist of 3 rows of 3 Nozzles

Test Pressure 240 Pa

Update Links

Chamber Connection

B- PT L2

READINGS

Hours	Minutes	Seconds
0	15	0

Timer: 0 | 15 | 0

Chamber Pressure: 240

Zero | Start | Stop

Start/reset timer 11:00:00 AM

Calculated finishing time 11:15:00 AM

Actual when timer stopped 11:25:00 AM

Conclusion Pass

Siganture

c. Structural positive wind load - serviceability test

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

STRUCTURAL WIND LOAD - SERVICEABILITY

AMBIENT CONDITIONS

Air Temperature	39	°C	Reset Date	Monday, 30 April 2007 11:30:00 AM	
Barometric Pressure	10.15	mb	Relative Humidity	15	%

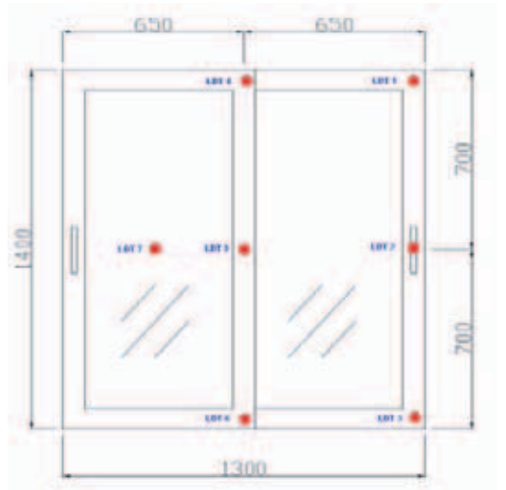
TESTING ENGINEER: Clark Facun

Chamber Connection: C- PT I

SPECIMEN TEST CRITERIA

Update Links

Design Wind Pressure	1211	Pa
Mullion Length to be tested	1.4	m
Transom Length to be tested	1.3	m
Max. Allowable Deformation-Mullion	8	mm
Max. Allowable Deformation-Transom	7	mm



LIVE READINGS

POSITIVE WIND LOAD

Chamber Pressure		1211	Pa
Top Center Member	LDT 1	4.3	mm
Middle Center Member	LDT 2	4.6	mm
Bottom Center Member	LDT 3	3.1	mm
Top Right Member	LDT 4	3.8	mm
Middle Right Memeber	LDT 5	3.8	mm
Bottom Right Member	LDT 6	3.1	mm
Glass	LDT 7	0.0	mm
	LDT 8	0.0	mm

Data recorded @ 11:40:20 AM

Chamber Pressure	1211	Pa	Design WL Pressure	1211	Pa
Actual Mullion Deflection	1	mm	Actual Mullion Def	1	mm
	Pass			Pass	
Chamber Pressure	1211	Pa	Design WL Pressure	1211	Pa
Actual Transom Deflection	0	mm	Actual Transom Def	0	mm
	Pass			Pass	

RESIDUAL	LDT 1	LDT 2	LDT 3	LDT 4	LDT 5	LDT 6

d. Structural negative wind load - serviceability test

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

STRUCTURAL WIND LOAD - SERVICEABILITY

AMBIENT CONDITIONS

Reset Date: Monday, 30 April 2007 11:45:00 AM

Air Temperature	39	°C
Barometric Pressure	10.15	mb
Relative Humidity	15	%

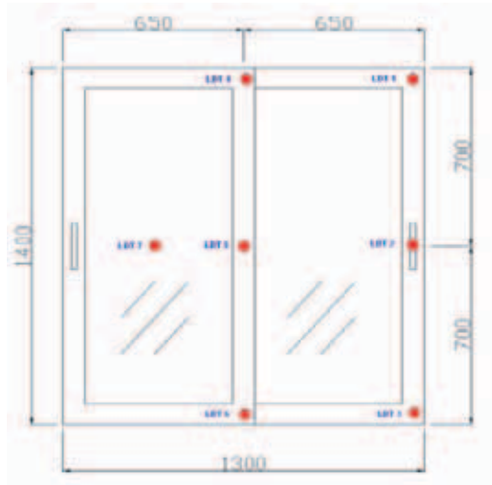
TESTING ENGINEER: Clark Facun

Chamber Connection: C- PT I

SPECIMEN TEST CRITERIA

Update Links

Design Wind Pressure	1211	Pa
Mullion Length to be tested	1.4	m
Transom Length to be tested	1.3	m
Max. Allowable Deformation-Mullion	8	mm
Max. Allowable Deformation-Transom	7	mm



LIVE READINGS

NEGATIVE WIND LOAD

Chamber Pressure		1211	Pa
Top Center Member	LDT 1	3.8	mm
Middle Center Member	LDT 2	4.8	mm
Bottom Center Member	LDT 3	3.1	mm
Top Right Member	LDT 4	3.1	mm
Middle Right Memeber	LDT 5	3.8	mm
Bottom Right Member	LDT 6	3.1	mm
Glass	LDT 7	0.0	mm
	LDT 8	0.0	mm

Data recorded @ 12:07:18 PM

Chamber Pressure	1211	Pa	Design WL Pressure	1211	Pa
Actual Mullion Deflection	1	mm	Actual Mullion Def.	1	mm
	Pass			Pass	
Chamber Pressure	1211	Pa	Design WL Pressure	1211	Pa
Actual Transom Deflection	1	mm	Actual Transom Def	1	mm
	Pass			Pass	

RESIDUAL

LDT 1	LDT 2	LDT 3	LDT 4	LDT 5	LDT 6

e. Post Structural - Static water penetration test

PROJECT NAME: SEVEN TIDES, IBN BATTUTA COMPLEX

POST STRUCTURAL - STATIC WATER PENETRATION TEST to ASTM E 331

Reset Date — Monday, 30 April 2007 12:10:00 PM

AMBIENT CONDITIONS

Air Temperature	39	ºC	Barometric Pressure	10.16	mb
Wind Speed		m/s	Relative Humidity	18	%

SPECIMEN TEST CRITERIA

TESTING ENGINEER: Clark Facun

Width 1.3 m — Height 1.4 m

The spray rack will consist of 3 rows of 3 Nozzles

Test Pressure 240 Pa — Update Links

Chamber Connection: B- PT L2

READINGS

Hours	Minutes	Seconds
0	15	0

Timer

0	15	0

Chamber Pressure

240

Zero — Start — Stop

Start/reset timer 12:20:00 PM

Calculated finishing time 12:35:00 PM

Actual when timer stopped 12:40:00 PM

Conclusion: Pass

Siganture

f. Post Structural - Static water penetration test

PROJECT NAME: SEVEN TIDES, IBN BATTUTA COMPLEX

POST STRUCTURAL - STATIC WATER PENETRATION TEST to ASTM E 331

Reset Date — Monday, 30 April 2007, 3:00 PM

AMBIENT CONDITIONS

Air Temperature	38	ºC	Barometric Pressure	10.06	mb
Wind Speed		m/s	Relative Humidity	19	%

TESTING ENGINEER

Clark Facun

Chamber Connection: B- PT L2

SPECIMEN TEST CRITERIA

Width 1.3 m — Height 1.4 m

The spray rack will consist of 3 rows of 3 Nozzles

Test Pressure 240 Pa

Update Links

READINGS

Hours	Minutes	Seconds
0	15	0

Timer

0	15	0

Chamber Pressure

240

Zero | Start | Stop

Start/reset timer 3:50:00 PM

Calculated finishing time 3:05:00 PM

Actual when timer stopped 3:07:00 PM

Conclusion: Pass

Siganture

Test Certificate of Sliding Window

g. Structural positive wind load @ 1.5 times design wind load

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

STRUCTURAL WIND LOAD - SAFETY

AMBIENT CONDITIONS

Reset Date: Monday, 30 April 2007 4:10 PM

Air Temperature	37	°C	Relative Humidity	19	%
Barometric Pressure	10.06	mb			

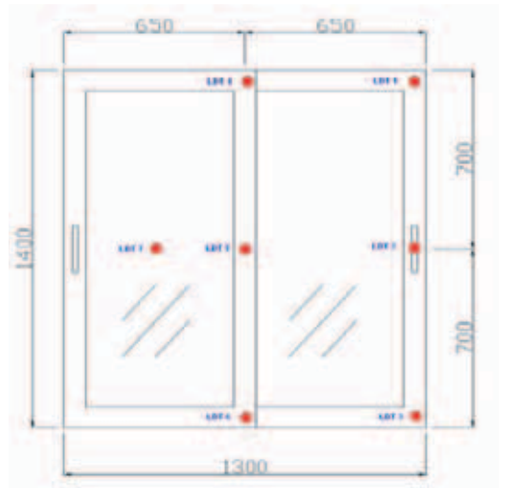
TESTING ENGINEER: Clark Facun

SPECIMEN TEST CRITERIA

Update Links

Chamber Connection: C- PT I

Design Wind Pressure	1817	Pa
Mullion Length to be tested	1.4	m
Transom Length to be tested	1.3	m
Max. Allowable Deformation-Mullion	3	mm
Max. Allowable Deformation-Transom	3	mm



LIVE READINGS

POSITIVE WIND LOAD

Chamber Pressure		1817	Pa
Top Center Member	LDT 1	5.6	mm
Middle Center Member	LDT 2	6.4	mm
Bottom Center Member	LDT 3	4.0	mm
Top Right Member	LDT 4	4.3	mm
Middle Right Memeber	LDT 5	5.1	mm
Bottom Right Member	LDT 6	4.6	mm
Glass	LDT 7	0.0	mm
	LDT 8	0.0	mm

Data recorded @ 4:18 PM

Chamber Pressure	1817	Pa	Design WL Pressure	1817	Pa
Actual Mullion Deflection	2	mm	Actual Mullion Def	2	mm
	Pass			Pass	
Chamber Pressure	1817	Pa	Design WL Pressure	1817	Pa
Actual Transom Deflection	1	mm	Actual Transom Def	1	mm
	Pass			Pass	

RESIDUAL	LDT 1	LDT 2	LDT 3	LDT 4	LDT 5	LDT 6
	0.38	0.25	0.25	0.25	0.51	0.64

h. Structural negative wind load @ 1.5 times design wind load

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

STRUCTURAL WIND LOAD - SAFETY

AMBIENT CONDITIONS

Reset Date: Monday, 30 April 2007 4:25:00 PM

Air Temperature	37	°C
Barometric Pressure	10.06	mb
Relative Humidity	19	%

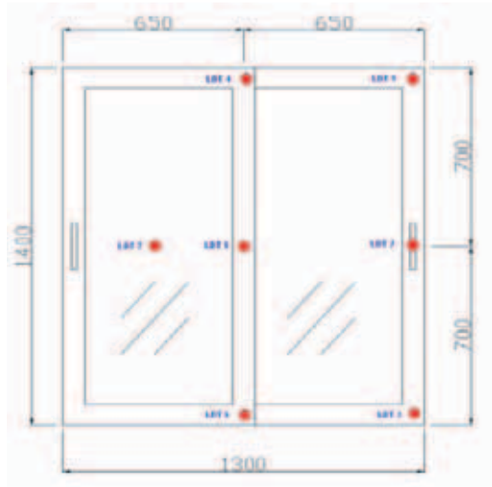
TESTING ENGINEER: Clark Facun

Chamber Connection: C- PT I

SPECIMEN TEST CRITERIA

Update Links

Design Wind Pressure	1817	Pa
Mullion Length to be tested	1.4	m
Transom Length to be tested	1.3	m
Max. Allowable Deformation-Mullion	3	mm
Max. Allowable Deformation-Transom	3	mm



LIVE READINGS

NEGATIVE WIND LOAD

Chamber Pressure		1817	Pa
Top Center Member	LDT 1	5.6	mm
Middle Center Member	LDT 2	6.6	mm
Bottom Center Member	LDT 3	4.3	mm
Top Right Member	LDT 4	3.3	mm
Middle Right Memeber	LDT 5	4.8	mm
Bottom Right Member	LDT 6	4.1	mm
Glass	LDT 7	0.0	mm
	LDT 8	0.0	mm

Data recorded @ 4:38 PM

Chamber Pressure	1817	Pa	Design WL Pressure	1817	Pa
Actual Mullion Deflection	2	mm	Actual Mullion Def.	2	mm
	Pass			Pass	
Chamber Pressure	1817	Pa	Design WL Pressure	1817	Pa
Actual Transom Deflection	1	mm	Actual Transom Def	1	mm
	Pass			Pass	

RESIDUAL

LDT 1	LDT 2	LDT 3	LDT 4	LDT 5	LDT 6
0.25	0.51	0.25	0.25	0.51	0.38

Test Certificate of Sliding Window

i. Post Structural - Air infiltration test

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

POST STRUCTURAL - AIR INFILTRATION TEST ASTM E 283

Tuesday, May 15, 2007
2:30:12 PM — Reset Date

AMBIENT CONDITIONS

Air Temperature	41 °C	Barometric Pressure	10.02 mb	Relative Humidity	14 %
Wind Speed	m/s	Wind Direction	Deg		

TESTING ENGINEER

Clark Facun

SPECIMEN TEST CRITERIA

Width	1.3 m	Height	1.4 m
Test Pressure	75 Pa		
Area	1.82 m²		
Length of opening joint	0.0 m		
Permitted Leakage area	5.00 m³/hr/m²		
Permitted Leakage(Meter opening joint)	0.0 m³/hr/m		
Total permitted Leakage	9.1 m³/hr		

Update Links

Zero Pressure

Inlet Nozzle Size	56 mm
Nozzle Connection	A- PT L1
Chamber Connection	B- PT L2

READINGS — SEAL WITH POLYETHYLENE

Chamber Pressure	75 Pa
Nozzle Pressure	11 Pa
Differential Pressure	61 Pa
Flow	83 m3/hr
Nozzle Flow	35.3 m3/hr
Data Recorded at	2:45 PM

Display 1

Stop 1

READINGS — WITHOUT POLYETHYLENE

Chamber Pressure	75 Pa
Nozzle Pressure	14 Pa
Differential Pressure	0 Pa
Flow	0 m3/hr
Nozzle Flow	39.8 m3/hr
Data Recorded at	2:53 PM

Display 2

Stop 2

SUMMARY RESULTS

Permitted Leakage	9 m³/hr	Specimen Leakage	4.54 m³/hr
Conclusion	Pass		

Signature

j. Post Structural - Air infiltration test

PROJECT NAME:	SEVEN TIDES, IBN BATTUTA COMPLEX

POST STRUCTURAL - AIR INFILTRATION TEST ASTM E 283

Tuesday, May 15, 2007
2:30:12 PM — Reset Date

AMBIENT CONDITIONS

Air Temperature	41 °C	Barometric Pressure	10.02 mb	Relative Humidity	14 %
Wind Speed	m/s	Wind Direction	Deg		

TESTING ENGINEER

Clark Facun

Inlet Nozzle Size	56 mm
Nozzle Connection	A- PT L1
Chamber Connection	B- PT L2

SPECIMEN TEST CRITERIA

Width	1.3 m	Height	1.4 m
Test Pressure	100 Pa		
Area	1.82 m²		
Length of opening joint	0.0 m		
Permitted Leakage area	5.00 m³/hr/m²		
Permitted Leakage(Meter opening joint)	0.0 m³/hr/m		
Total permitted Leakage	9.1 m³/hr		

Update Links

Zero Pressure

READINGS — SEAL WITH POLYETHYLENE

Chamber Pressure	100 Pa
Nozzle Pressure	11 Pa
Differential Pressure	0 Pa
Flow	0 m3/hr
Nozzle Flow	35.3 m3/hr
Data Recorded at	2:45 PM

Display 1

Stop 1

READINGS — WITHOUT POLYETHYLENE

Chamber Pressure	100 Pa
Nozzle Pressure	17 Pa
Differential Pressure	0 Pa
Flow	0 m3/hr
Nozzle Flow	43.9 m3/hr
Data Recorded at	2:53 PM

Display 2

Stop 2

SUMMARY RESULTS

Permitted Leakage	9 m³/hr	Specimen Leakage	8.61 m³/hr
Conclusion	Pass		

Signature

ECO - 500 SLIDING

THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2

Theory

The thermal transmittance of a frame according to EN ISO 10077-2:

POWERED BY TECHNOFORM BAUTEC

$$U_f = \frac{L_{2D} - U_p * l_p}{l_f} \quad \text{and} \quad L_{2D} = \frac{q_{l,tot}}{\Delta\theta}$$

with:

U_f : thermal transmittance of the window frame [W/m ^{2}K]
U_p : thermal transmittance of the flanking panel [W/m ^{2}K]
l_p : projected width of the flanking panel [m]
l_f : projected width of the window frame [m]
L_{2D} : two-dimensional coupling coefficient [W/mK]
$q_{l,tot}$: total heat flow through the window frame and the flanking panel [W/m]
$\Delta\theta$: temperature difference between inside (θi) and outside (θe) [K]

Calculation

Item: elite sliding bisco re

input data:	$q_{l,tot}$ =	16.738 W/m		R_{se} =	0.04 m^{2}K/W
	θ_e =	0.0 °C		R_{si} =	0.13 m^{2}K/W
	θ_i =	20.0 °C			
	d_p =	0.0241 m			
	λ_p =	0.035 W/m*K			
	U_p =	1.165 W/m^{2}K			
	l_p =	0.190 m			
			calculation results:	L_{2D} =	0.84 W/mK
	l_f =	0.1163 m		U_f =	**5.29 W/m^{2}K**

$q_{l,tot}$: alphanumeric output
heat losses per boundary condition

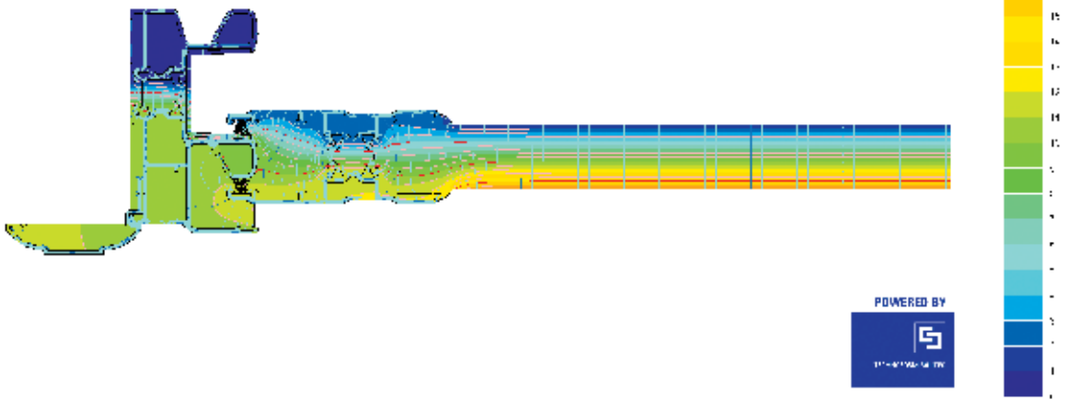
$\Delta\theta$: input data, surface boundary conditions:
inside temperature minus outside temperature

U_p : calculation, using the following formula:

$$U_p = \left[\frac{1}{h_e} + \sum \frac{d_p}{\lambda_p} + \frac{1}{h_i} \right]^{-1}$$

with:
h_e / h_i ext./int. surface heat transfer coeff. [W/m ^{2}K
d_p thickness of panel p [m]
λ_p thermal conductivity of panel p [W/mK]

l_p / l_f : input data: dimensions of the item



ECO - 500 SLIDING

THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2

Theory

The thermal transmittance of a frame according to EN ISO 10077-2:

POWERED BY TECHNOFORM BAUTEC

$$U_f = \frac{L_{2D} - U_p * l_p}{l_f} \quad \text{and} \quad L_{2D} = \frac{q_{l,tot}}{\Delta\theta}$$

with:
- U_f : thermal transmittance of the window frame [W/m ^{2}K]
- U_p : thermal transmittance of the flanking panel [W/m ^{2}K]
- l_p : projected width of the flanking panel [m]
- l_f : projected width of the window frame [m]
- L_{2D} : two-dimensional coupling coefficient [W/mK]
- $q_{l,tot}$: total heat flow through the window frame and the flanking panel [W/m]
- $\Delta\theta$: temperature difference between inside (θi) and outside (θe) [K]

Calculation

Item: elite sliding central bisco re

input data:	$q_{l,tot}$ =	17.246	W/m	R_{se} =	0.04	m^2K/W
	θ_e =	0.0	°C	R_{si} =	0.13	m^2K/W
	θ_i =	20.0	°C			
	d_p =	0.0241	m			
	λ_p =	0.035	W/m*K			
	U_p =	1.165	W/m^2K			
	l_p =	0.380	m			
				calculation results: L_{2D} =	0.86	W/mK
	l_f =	0.0841	m	U_f =	**4.99**	**W/m^2K**

$q_{l,tot}$: alphanumeric output
heat losses per boundary condition

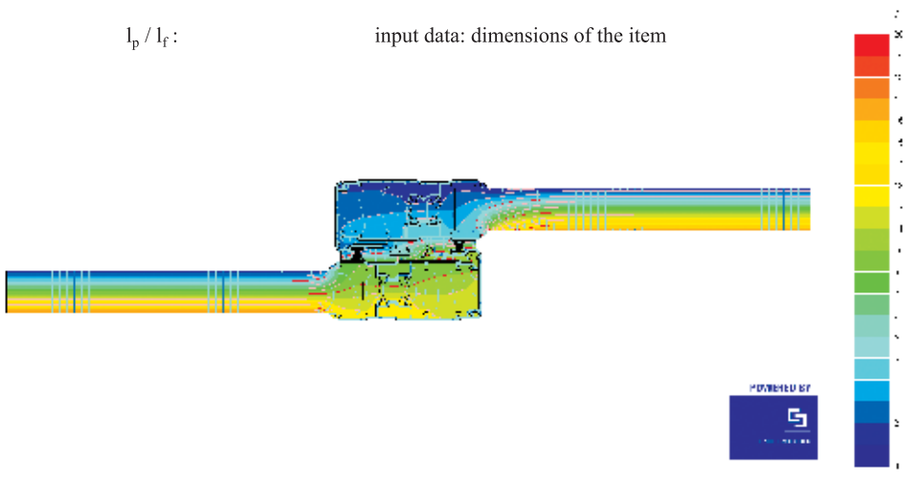
$\Delta\theta$: input data, surface boundary conditions:
inside temperature minus outside temperature

U_p : calculation, using the following formula:

$$U_p = \left[\frac{1}{h_e} + \sum \frac{d_p}{\lambda_p} + \frac{1}{h_i} \right]^{-1}$$

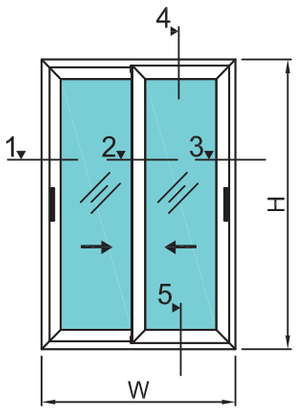
with:
- h_e / h_i ext./int. surface heat transfer coeff. [W/m ^{2}K]
- d_p thickness of panel p [m]
- λ_p thermal conductivity of panel p [W/mK]

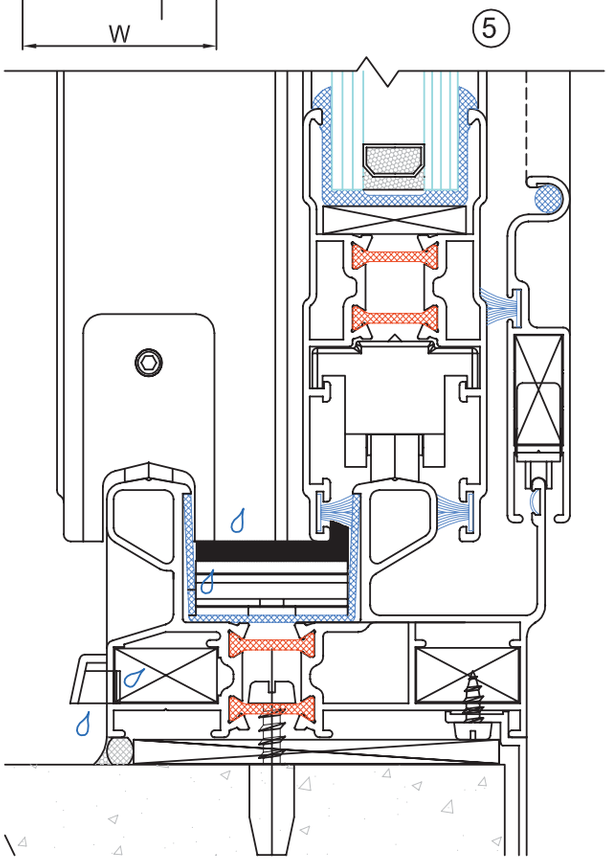
l_p / l_f : input data: dimensions of the item

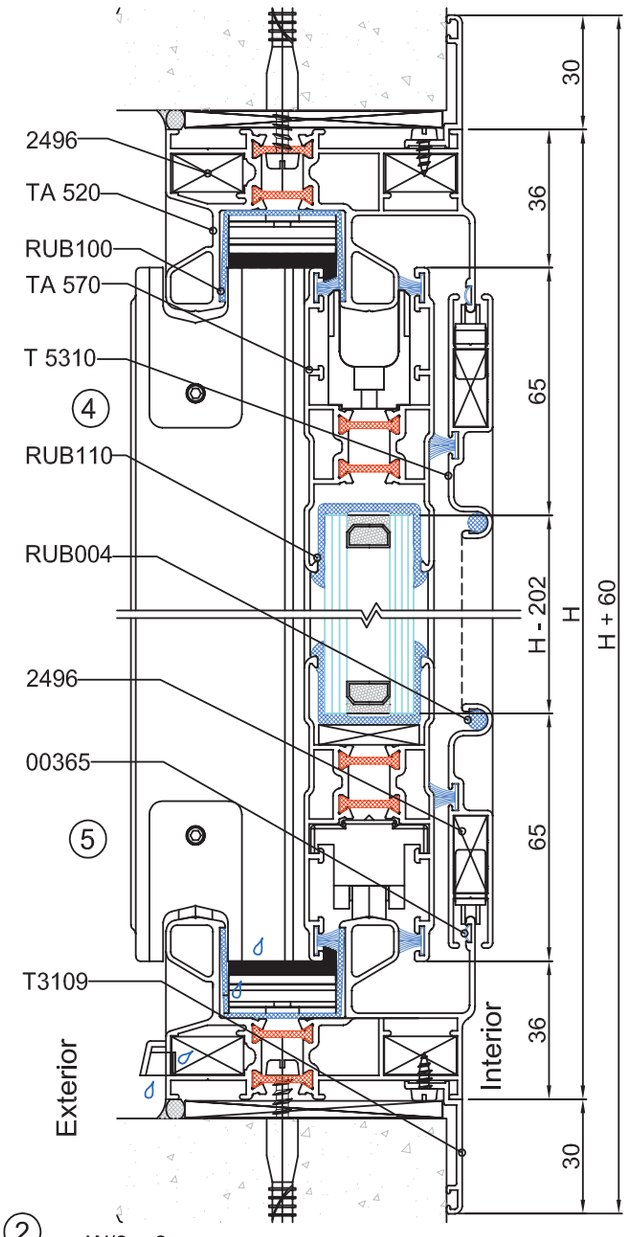


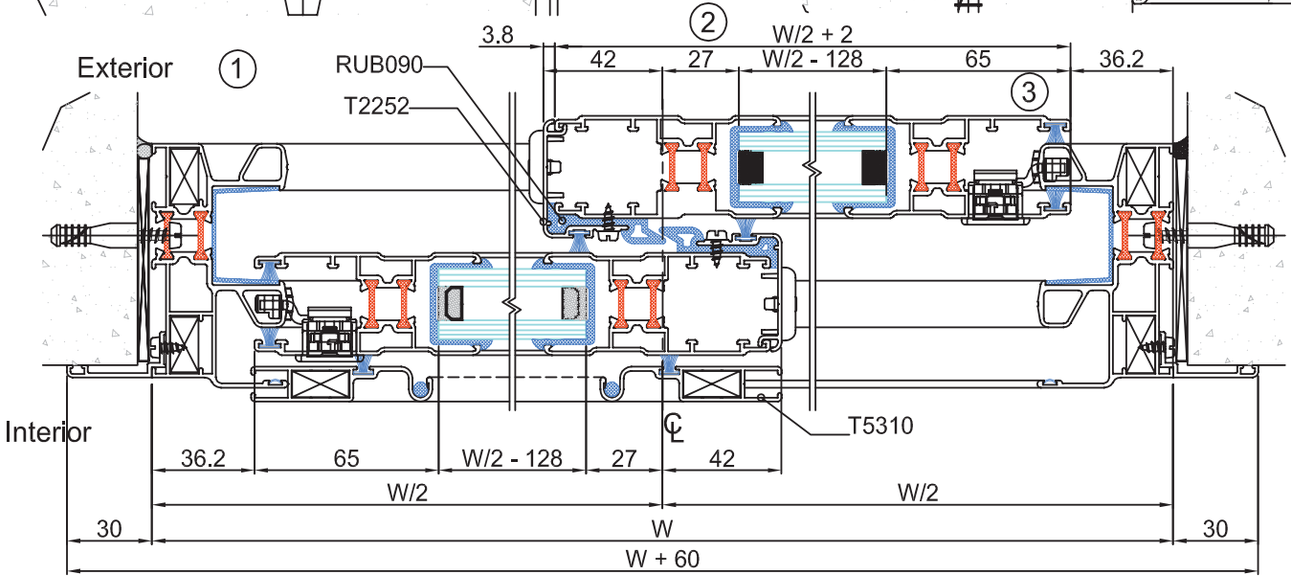
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500





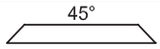
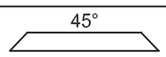
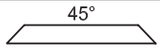
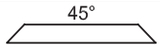
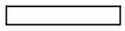
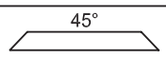
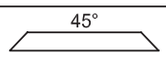
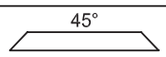
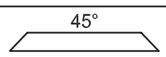
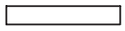
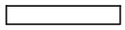
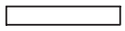




THERMAL BREAK
DOUBLE SLIDING WINDOW

ECO - 500

PROFILE CUTTING LIST

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 520	 45°	W	02	
2.	 FRAME HEIGHT	TA 520	 45°	H	02	
3.	 SASH WIDTH	TA 570	 45°	W/2 + 2	04	W/2 + 2
4.	 SASH HEIGHT	TA 570	 45°	H - 72.6	04	H - 72.6
5.	 INTER LOCK HEIGHT	T2252		H - 72.6	02	H - 72.6
6.	 FLY SCREEN WIDTH	T5310	 45°	W/2 + 2	02	
7.	FLY SCREEN HEIGHT	T5310	 45°	H - 83	02	
8.	 ARCHITRIVE WIDTH	T 3109	 45°	W + 60	02	
9.	 ARCHITRIVE HEIGHT	T 3109	 45°	H + 60	02	
10.	 CORNER CLEAT FOR FRAME	2496		19.5	08	
11.	 CORNER CLEAT FOR FLY SCREEN	5278		8.5	04	
12.	 CORNER CLEAT FOR SASH	5576		2.5	16	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY
1.	00365	ALIGNMENT CORNER	M. F	04
2.	A1500	NYLON CORNER FOR SASH	M. F	08
3.	2314	DRAIN HOLE COVER	M. F	02
4.	03144	BUMP RUBBER	M. F	04
5.	03143	DUST PLUG	M. F	02
6.	03115	ROLLER	M. F	04
7.	02983	HANDLE	P. C	02
8.	03085	HANDLE KIT	M. F	02

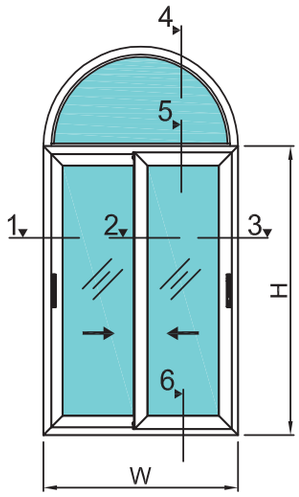
E.P.D.M. GASKET LIST

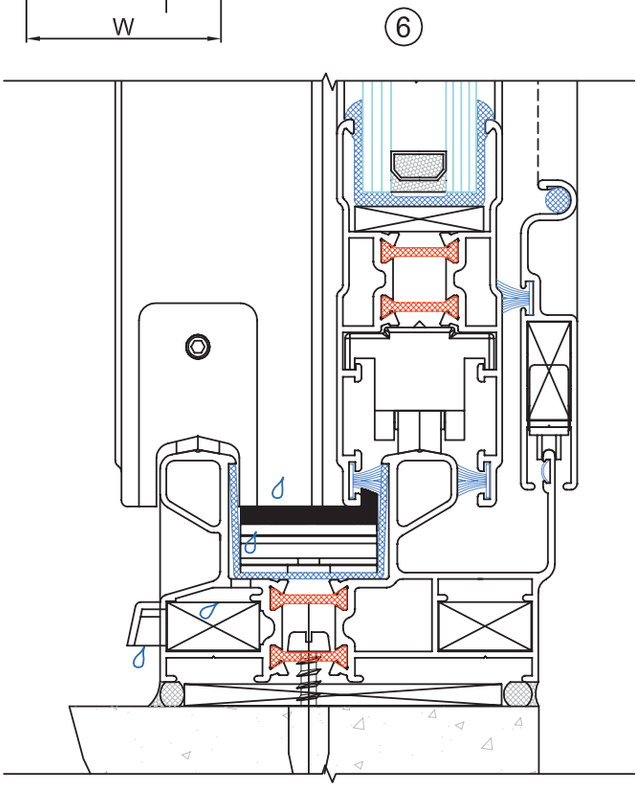
ITEM No.	GASKET CODE No.	DESCRIPTION	QTY
1.	RUB 110	24mm U GASKET	2W + 4H
2.	RUB 100	SLIDING FRAME GASKET	2W + 2H
3.	RUB 090	INTER LOCK GASKET	2H
4.	RUB 004	FLY SCREEN GASKET	1W + 2H
5.	PB69-800-3P-HF	WEATHER PILE FOR SASH	4W + 6H
6.	PB69-800-4P	WEATHER PILE FOR FLY SCREEN	1W + 2H

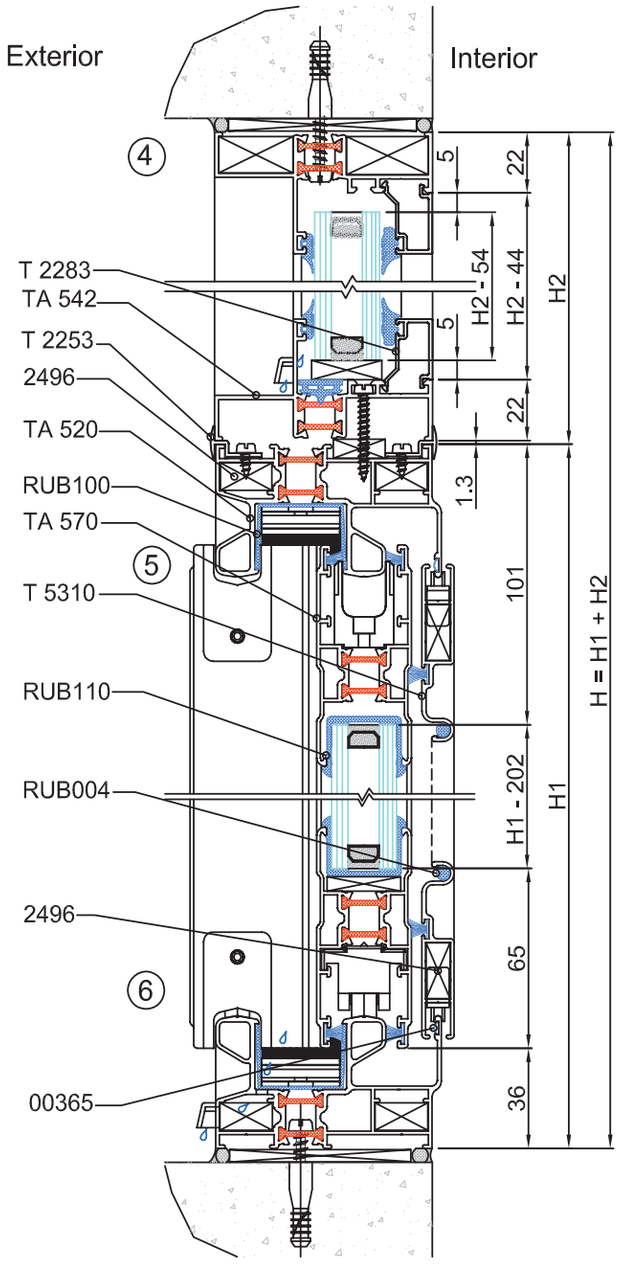
NOTE: SCREWS, FLY SCREEN ROLLER, ALUMINIUM MESH, SILICON & GLASS ARE NOT INCLUDED IN THE CUTTING LIST

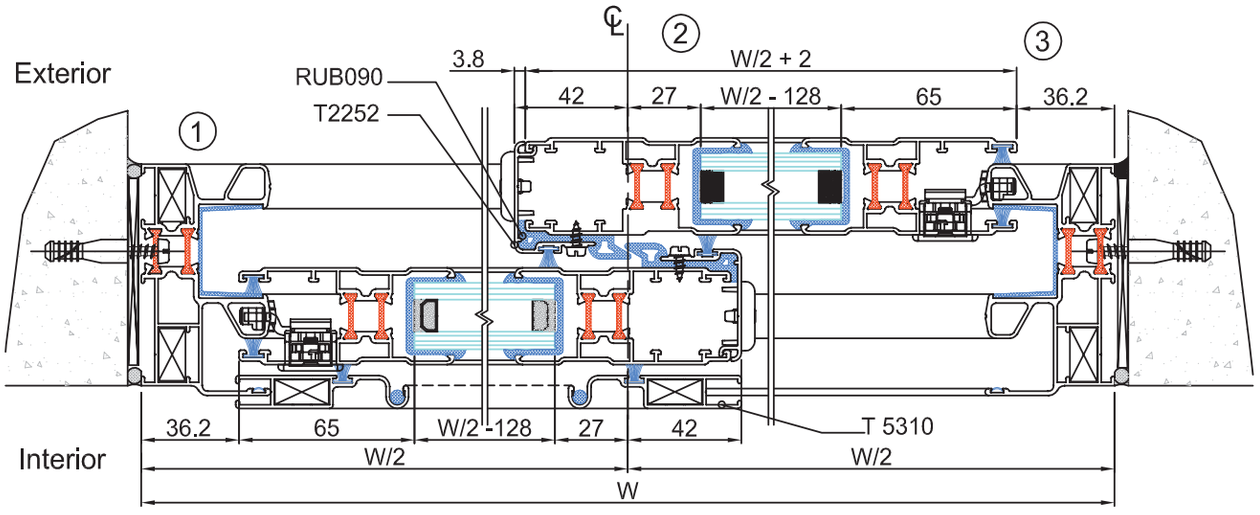
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500









THERMAL BREAK
DOUBLE SLIDING WINDOW WITH TOP FIXLITE

ECO - 500

PROFILE CUTTING LIST

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 520	45°	W	02	
2.	FRAME HEIGHT	TA 520	45°	H	02	
3.	SASH WIDTH	TA 570	45°	W/2 + 2	04	W/2 + 2
4.	SASH HEIGHT	TA 570	45°	H - 72.6	04	H - 72.6
5.	INTER LOCK HEIGHT	T2252		H - 72.6	02	H - 72.6
6.	FLY SCREEN WIDTH	T5310	45°	W/2 + 2	02	
7.	FLY SCREEN HEIGHT	T5310	45°	H - 83	02	
8.	ARCHITRIVE WIDTH	T 3109	45°	W + 60	02	
9.	ARCHITRIVE HEIGHT	T 3109	45°	H + 60	02	
10.	CORNER CLEAT FOR FRAME	2496		19.5	08	
11.	CORNER CLEAT FOR FLY SCREEN	5278		8.5	04	
12.	CORNER CLEAT FOR SASH	5576		2.5	16	
13.	FIXLITE FRAME WIDTH	TA 542	45°	W	01	
14.	(T4) ARCH FRAME	TA 542	45° 45°	(3.14 X D)/2	01	(3.14 X D)/2
15.	GLASS BEAD FOR FIXLITE	T 2283		W - 44	01	
16.	(T4) GLASS BEAD FOR FIXLITE	T 2283	45° 45°	(3.14 X D)/2	01	(3.14 X D)/2
17.	ADOPTER	T 2253		W	02	
18.	CORNER CLEAT FOR FIXLITE FRAME	2261		28 27	02 02	MILL FINISH

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY
1.	00365	ALIGNMENT CORNER	M. F	04
2.	A1500	NYLON CORNER FOR SASH	M. F	08
3.	2314	DRAIN HOLE COVER	M. F	04
4.	03144	BUMP RUBBER	M. F	04
5.	03143	DUST PLUG	M. F	02
6.	03115	ROLLER	M. F	04
7.	02983	HANDLE	P. C	02
8.	03085	HANDLE KIT	M. F	02

E.P.D.M. GASKET LIST

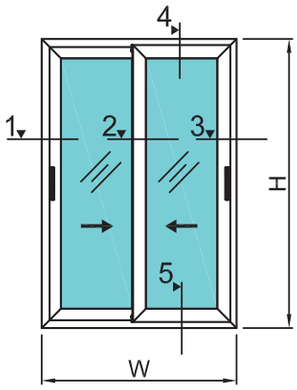
ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF
1.	RUB 110	24mm U GASKET	2W + 4H
2.	RUB 100	SLIDING FRAME GASKET	2W + 2H
3.	RUB 090	INTER LOCK GASKET	2H
4.	RUB 004	FLY SCREEN GASKET	1W + 2H
5.	RUB 010	THERMAL BARRIER GASKET	1W
6.	RUB 055	INTERNAL GLAZING GASKET	1W + 2H
7.	RUB 065	EXTERNAL GLAZING GASKET	1W + 2H
8.	PB69-800-3P-HF	WEATHER PILE FOR SASH	4W + 6H
9.	PB69-800-4P	WEATHER PILE FOR FLY SCREEN	1W + 2H

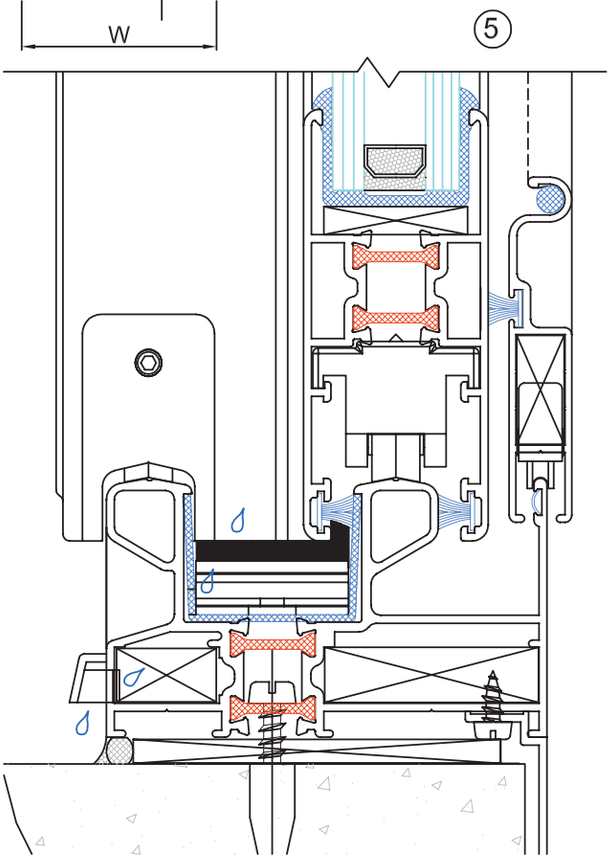
NOTE: SCREWS, FLY SCREEN ROLLER, ALUMINIUM MESH, SILICON & GLASS ARE NOT INCLUDED IN THE CUTTING LIST

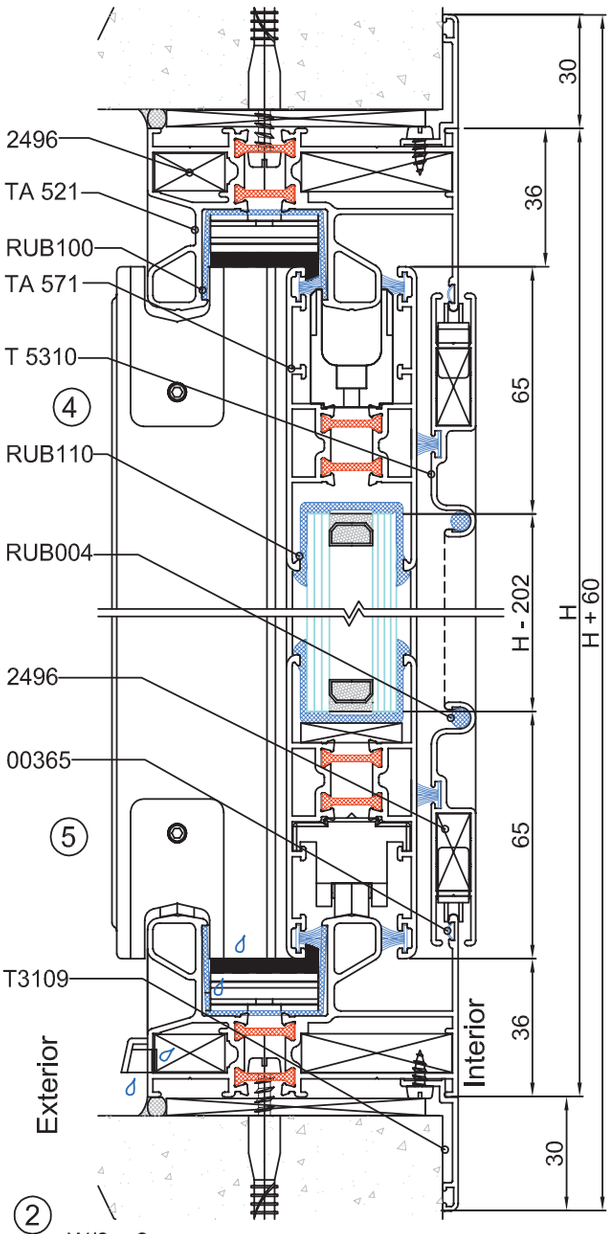
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

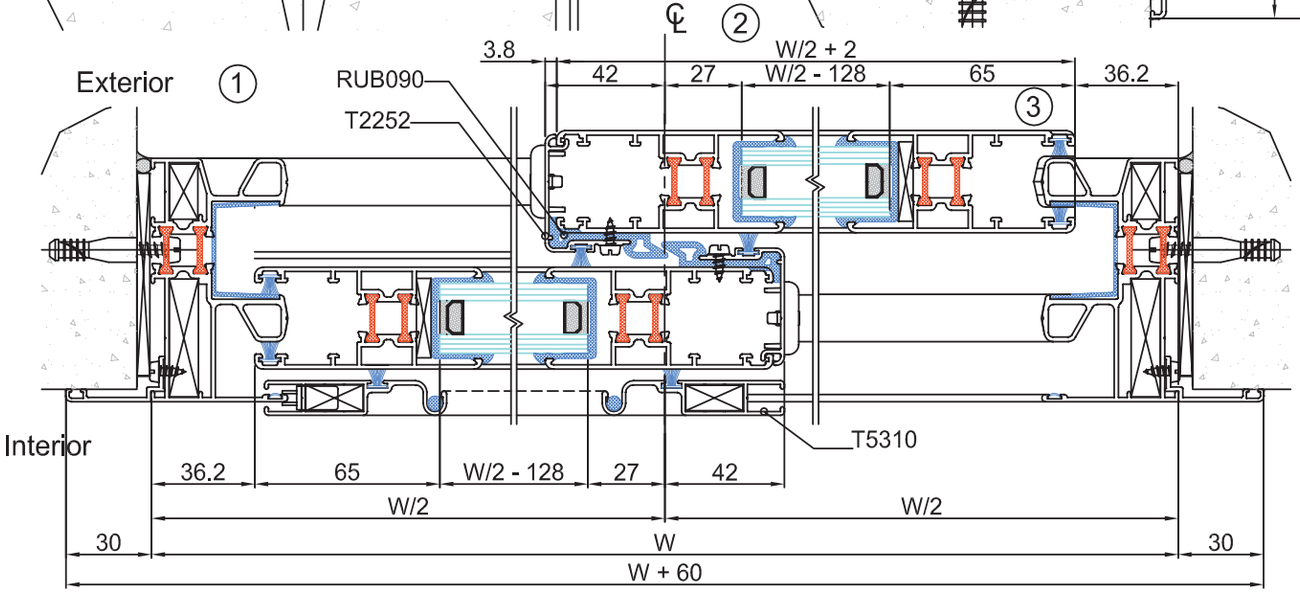
ECO - 500

STRAIGHT EDGE FRAME AND SASH





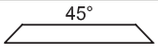
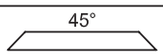
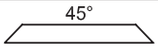
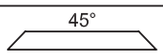
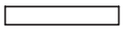
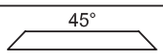
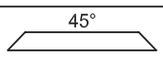
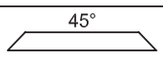
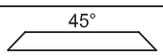
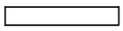
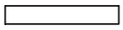




THERMAL BREAK DOUBLE SLIDING WINDOW STRAIGHT EDGE FRAME AND SASH

ECO - 500

PROFILE CUTTING LIST

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 521	 45°	W	02	
2.	 FRAME HEIGHT	TA 521	 45°	H	02	
3.	 SASH WIDTH	TA 571	 45°	W/2 + 2	04	W/2 + 2
4.	 SASH HEIGHT	TA 571	 45°	H - 72.6	04	H - 72.6
5.	 INTER LOCK HEIGHT	T2252		H - 72.6	02	H - 72.6
6.	 FLY SCREEN WIDTH	T5310	 45°	W/2 + 2	02	
7.	 FLY SCREEN HEIGHT	T5310	 45°	H - 83	02	
8.	 ARCHITRIVE WIDTH	T 3109	 45°	W + 60	02	
9.	 ARCHITRIVE HEIGHT	T 3109	 45°	H + 60	02	
10.	 CORNER CLEAT FOR FRAME	2496		19.5	08	
11.	 CORNER CLEAT FOR FLY SCREEN	5278		8.5	04	
12.	 CORNER CLEAT FOR SASH	5576		2.5	16	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY
1.	00365	ALIGNMENT CORNER	M. F	04
2.	A1500	NYLON CORNER FOR SASH	M. F	08
3.	2314	DRAIN HOLE COVER	M. F	02
4.	03144	BUMP RUBBER	M. F	04
5.	03143	DUST PLUG	M. F	02
6.	03115	ROLLER	M. F	04
7.	02983	HANDLE	P. C	02
8.	03094	HANDLE KIT	M. F	02

E.P.D.M. GASKET LIST

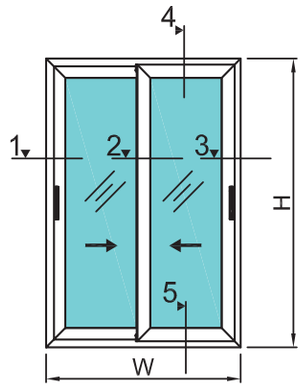
ITEM No.	GASKET CODE No.	DESCRIPTION	QTY
1.	RUB 110	24mm U GASKET	2W + 4H
2.	RUB 100	SLIDING FRAME GASKET	2W + 2H
3.	RUB 090	INTER LOCK GASKET	2H
4.	RUB 004	FLY SCREEN GASKET	1W + 2H
5.	PB69-800-3P-HF	WEATHER PILE FOR SASH	4W + 6H
6.	PB69-800-4P	WEATHER PILE FOR FLY SCREEN	1W + 2H

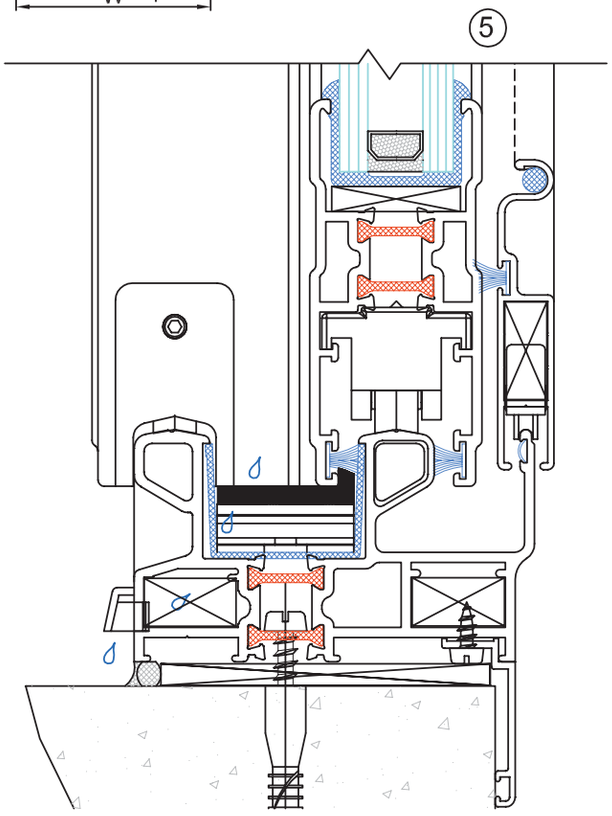
NOTE: SCREWS, FLY SCREEN ROLLER, ALUMINIUM MESH, SILICON & GLASS ARE NOT INCLUDED IN THE CUTTING LIST

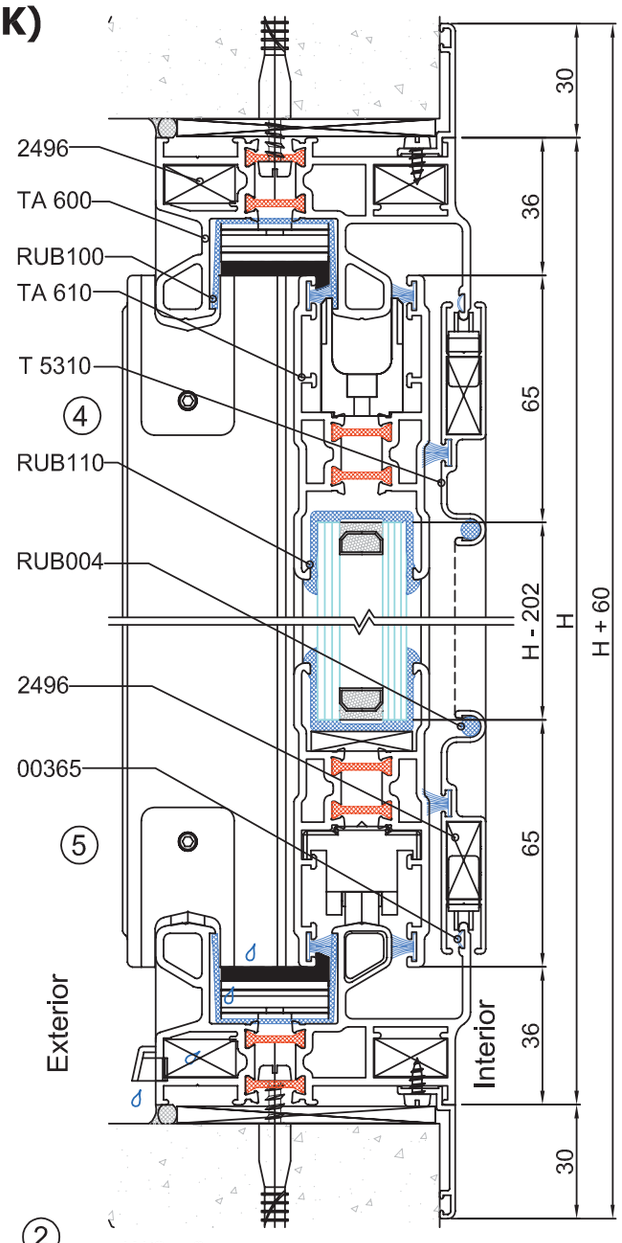
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

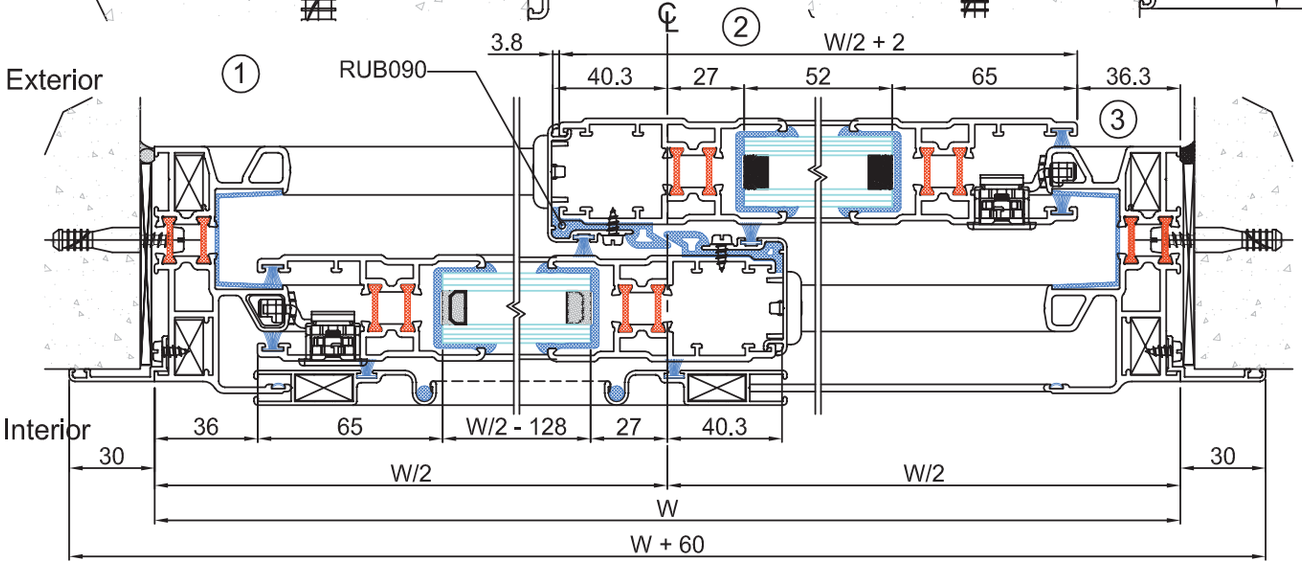
ECO - 500

HEAVY DUTY PROFILES (2.1mm THICK)









THERMAL BREAK DOUBLE SLIDING WINDOW HEAVY DUTY PROFILES (2.1mm THICK)

ECO - 500

PROFILE CUTTING LIST

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 600	45°	W	02	
2.	FRAME HEIGHT	TA 600	45°	H	02	
3.	SASH WIDTH	TA 610	45°	W/2 + 2	04	W/2 + 2
4.	SASH HEIGHT	TA 610	45°	H - 72.6	04	H - 72.6
5.	INTER LOCK HEIGHT	T2252		H - 72.6	02	H - 72.6
6.	FLY SCREEN WIDTH	T5310	45°	W/2 + 2	02	
7.	FLY SCREEN HEIGHT	T5310	45°	H - 83	02	
8.	ARCHITRIVE WIDTH	T 3109	45°	W + 60	02	
9.	ARCHITRIVE HEIGHT	T 3109	45°	H + 60	02	
10.	CORNER CLEAT FOR FRAME	2496		19.5	08	
11.	CORNER CLEAT FOR FLY SCREEN	5278		8.5	04	
12.	CORNER CLEAT FOR SASH	5576		2.5	16	

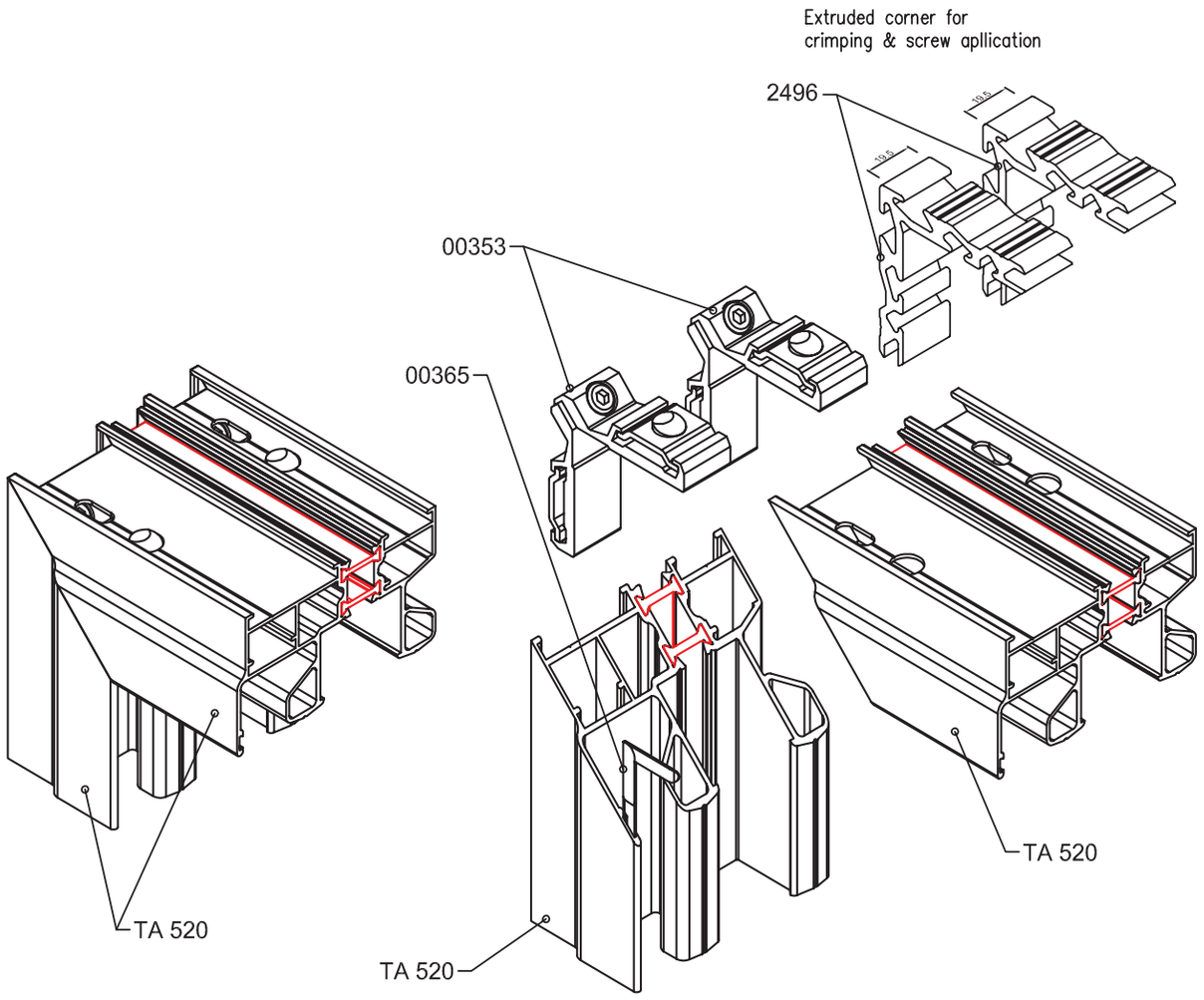
ACCESSORIES LIST

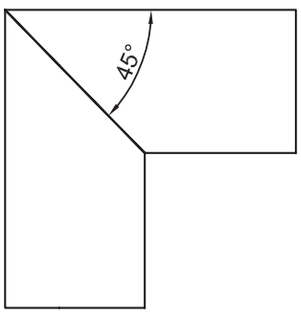
ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY
1.	00365	ALIGNMENT CORNER	M. F	04
2.	A1500	NYLON CORNER FOR SASH	M. F	08
3.	2314	DRAIN HOLE COVER	M. F	02
4.	03144	BUMP RUBBER	M. F	04
5.	03143	DUST PLUG	M. F	02
6.	03115	ROLLER	M. F	04
7.	02983	HANDLE	P. C	02
8.	03085	HANDLE KIT	M. F	02

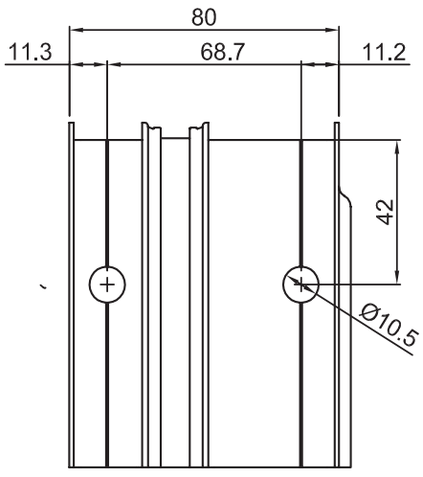
E.P.D.M. GASKET LIST

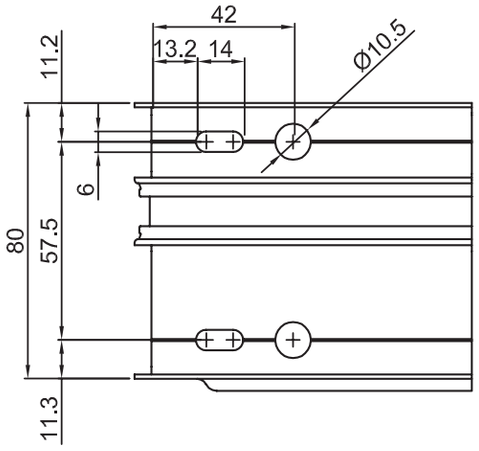
ITEM No.	GASKET CODE No.	DESCRIPTION	QTY
1.	RUB 110	24mm U GASKET	2W + 4H
2.	RUB 100	SLIDING FRAME GASKET	2W + 2H
3.	RUB 090	INTER LOCK GASKET	2H
4.	RUB 004	FLY SCREEN GASKET	1W + 2H
5.	PB69-800-3P-HF	WEATHER PILE FOR SASH	4W + 6H
6.	PB69-800-4P	WEATHER PILE FOR FLY SCREEN	1W + 2H

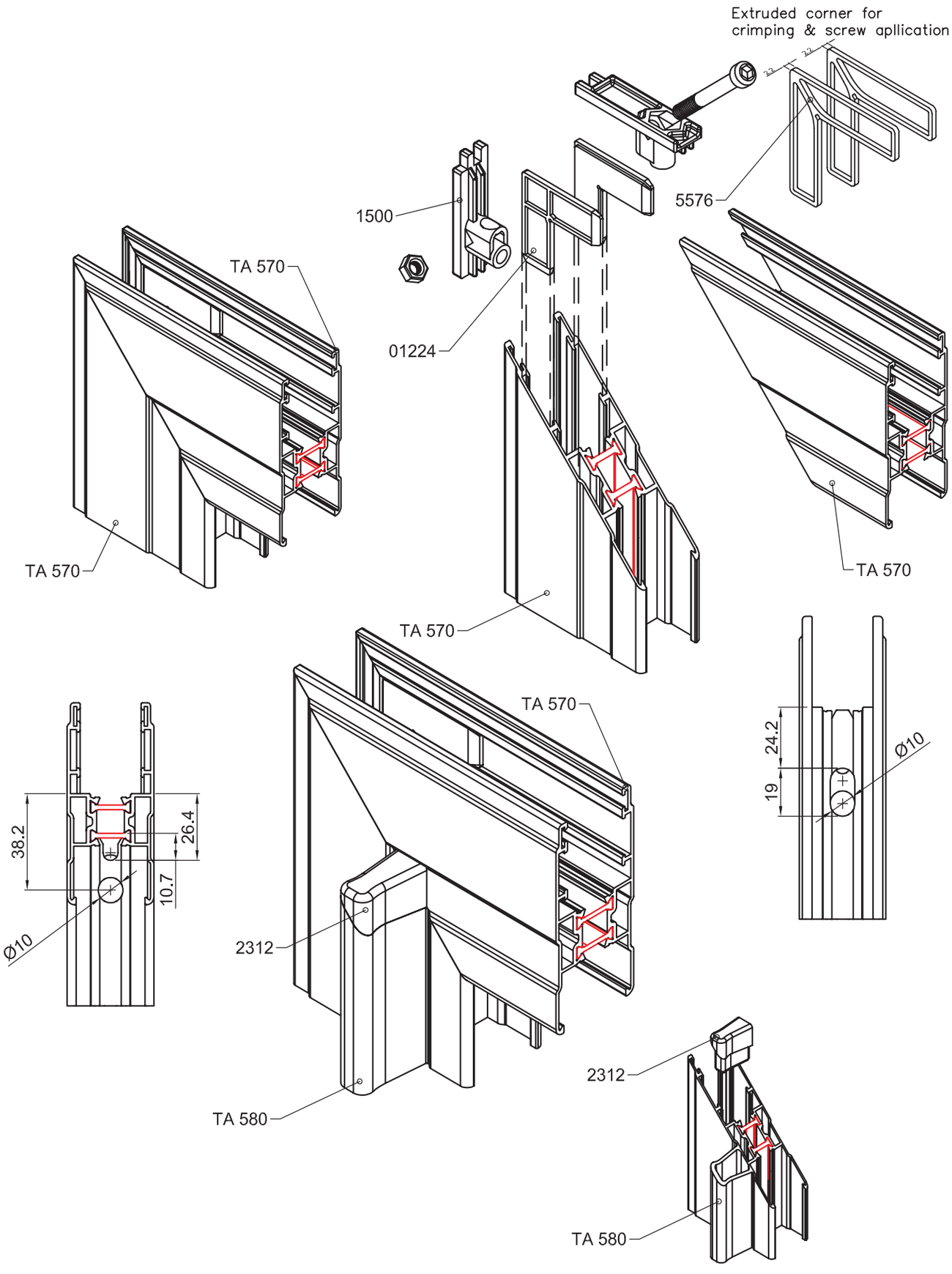
NOTE: SCREWS, FLY SCREEN ROLLER, ALUMINIUM MESH, SILICON & GLASS ARE NOT INCLUDED IN THE CUTTING LIST


Extruded corner for
crimping & screw apllication
2496
00353
00365
TA 520
TA 520
TA 520


45°

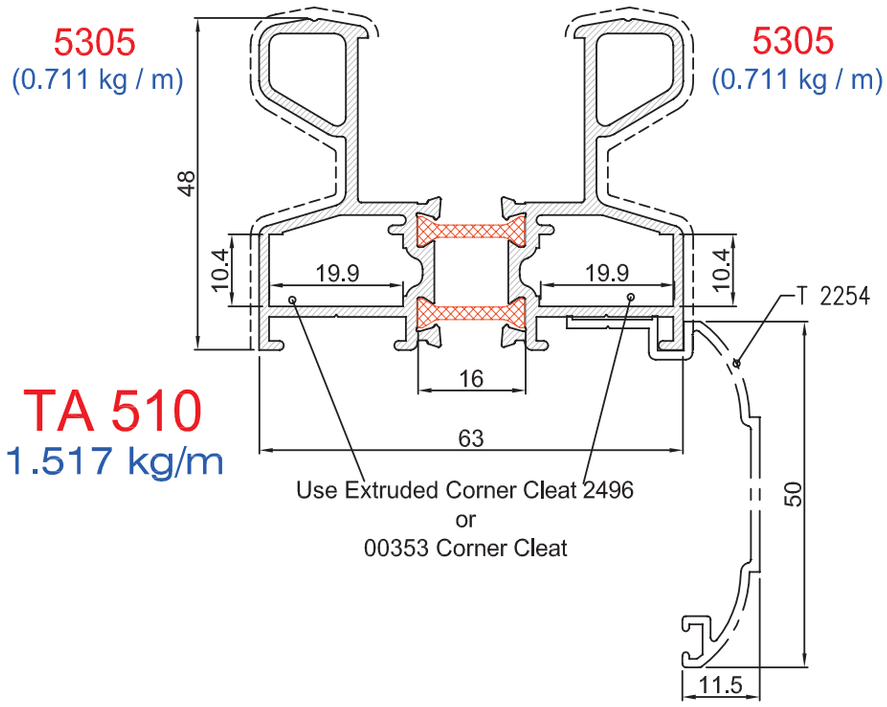

80
11.3
68.7
11.2
42
Ø10.5


42
13.2
14
Ø10.5
11.2
6
80
57.5
11.3

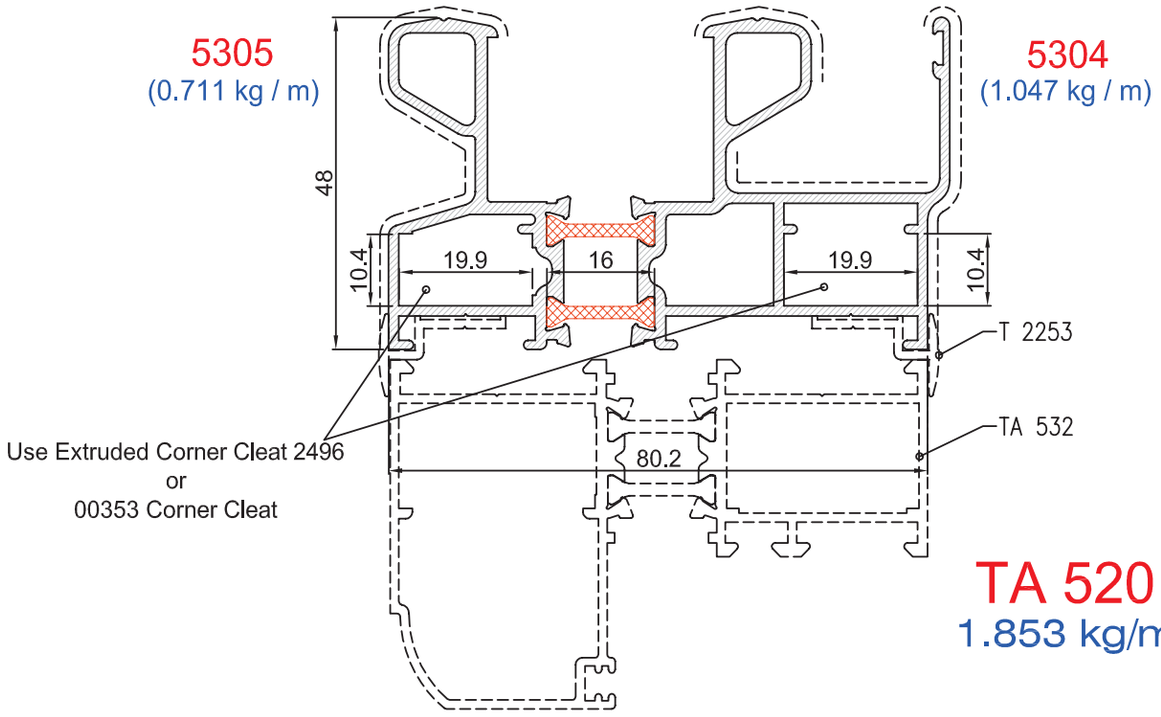

Extruded corner for
crimping & screw apllication
5576
1500
01224
TA 570
TA 570
TA 570
TA 570
TA 570
38.2
26.4
10.7
Ø10
24.2
19
Ø10
2312
TA 580
2312
TA 580

SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500



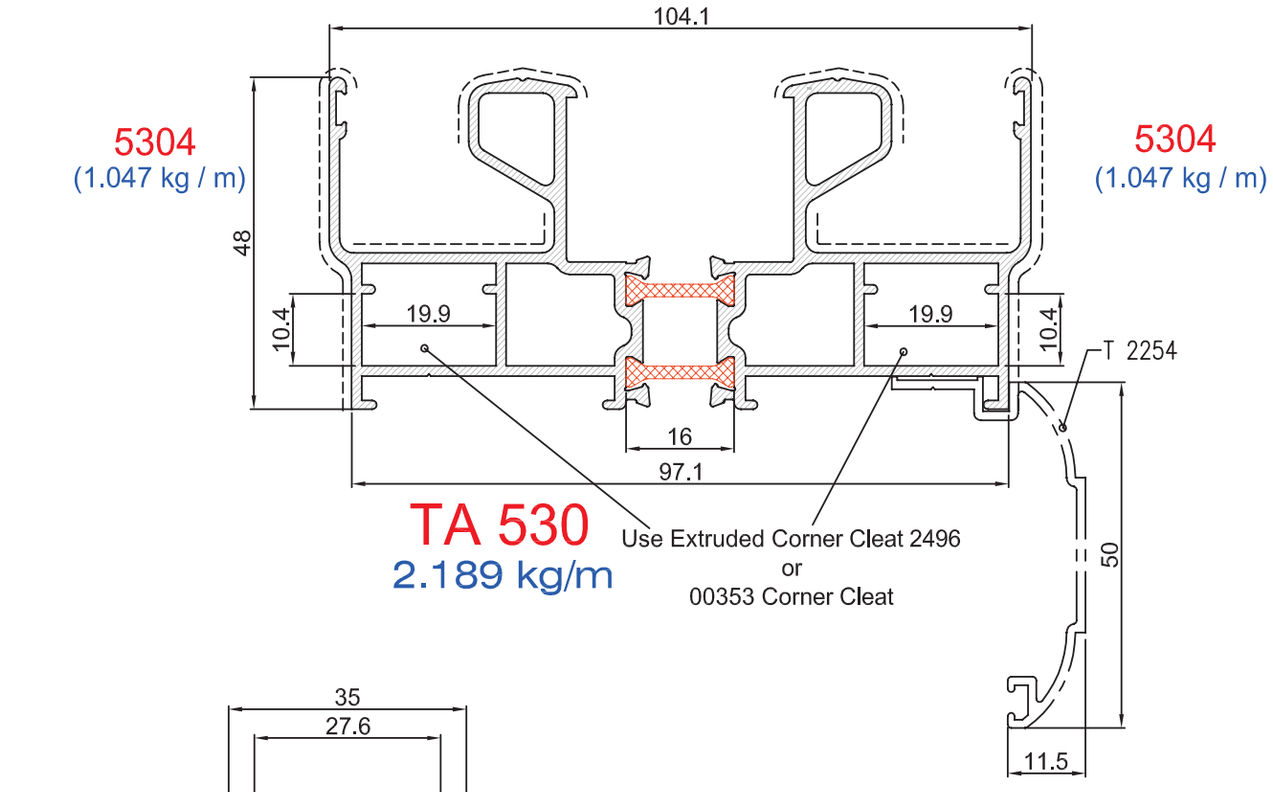
TA 510
1.517 kg/m



TA 520
1.853 kg/m

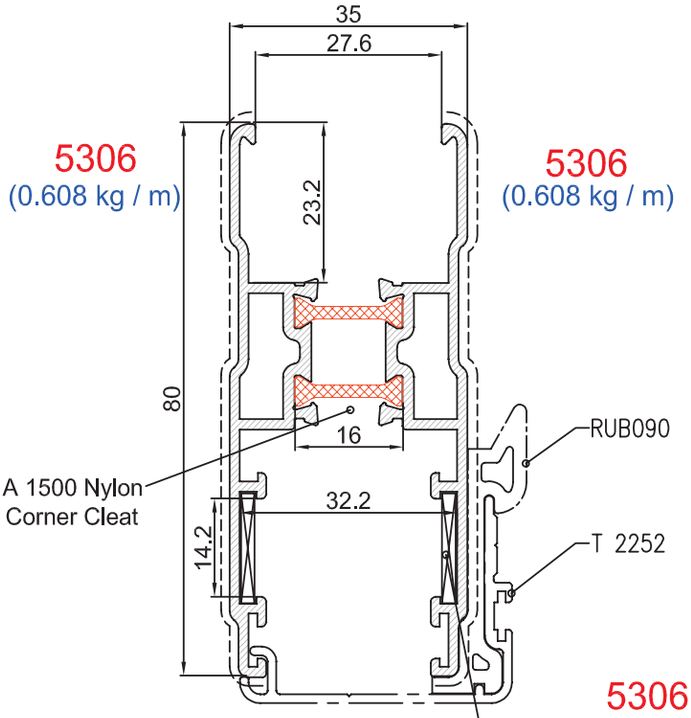
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500



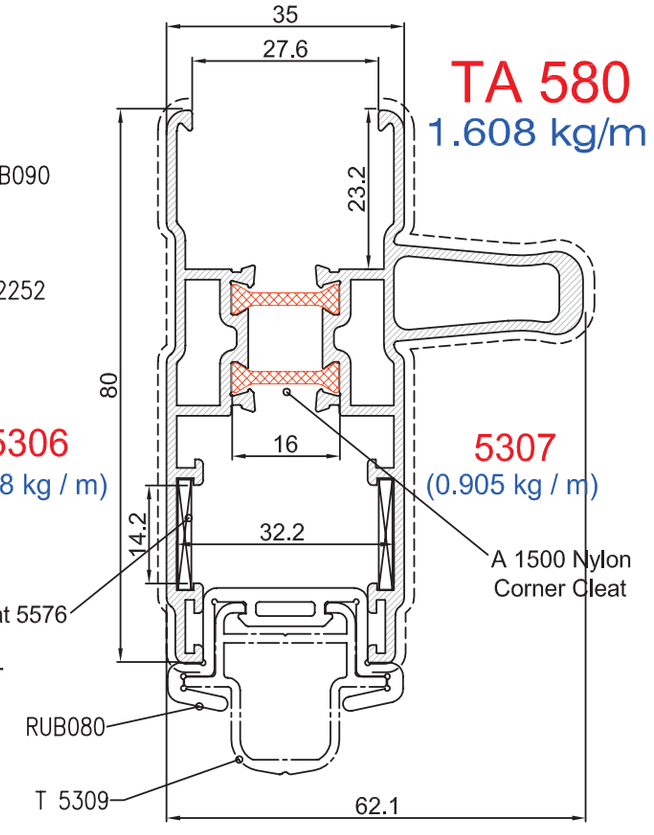
TA 530
2.189 kg/m

Use Extruded Corner Cleat 2496
or
00353 Corner Cleat



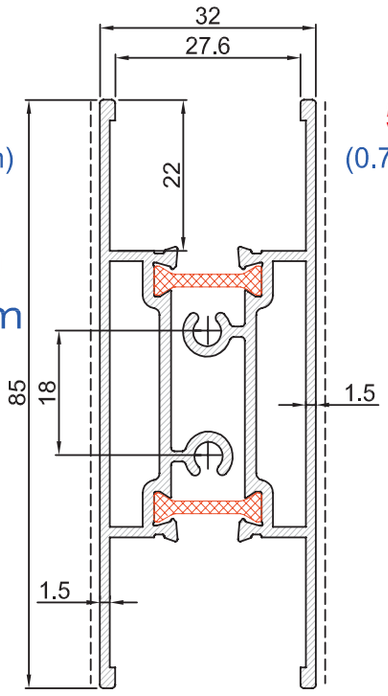
TA 570
1.311 kg/m

Use Extruded Corner Cleat 5576
or
01224 plastic corner



SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500

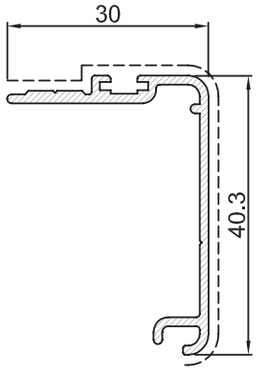


5308
(0.715 kg / m)

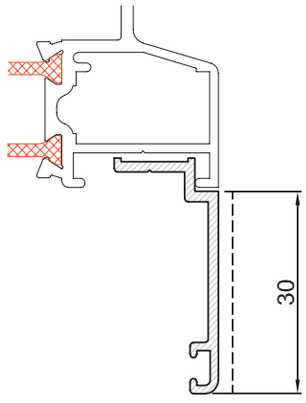
5308
(0.715 kg / m)

TA 590
1.525 kg/m

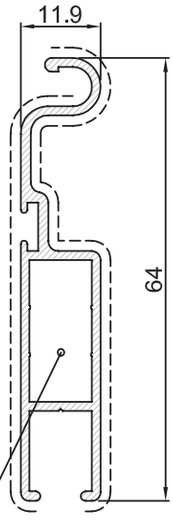
T 2254
0.335 kg/m



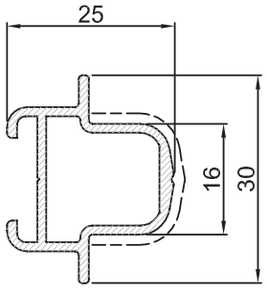
T 2252
0.319 kg/m



T 3109
0.214 kg/m

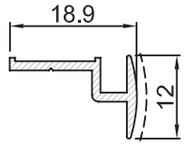


T 5310
0.502 kg/m



T 5309
0.351 kg/m

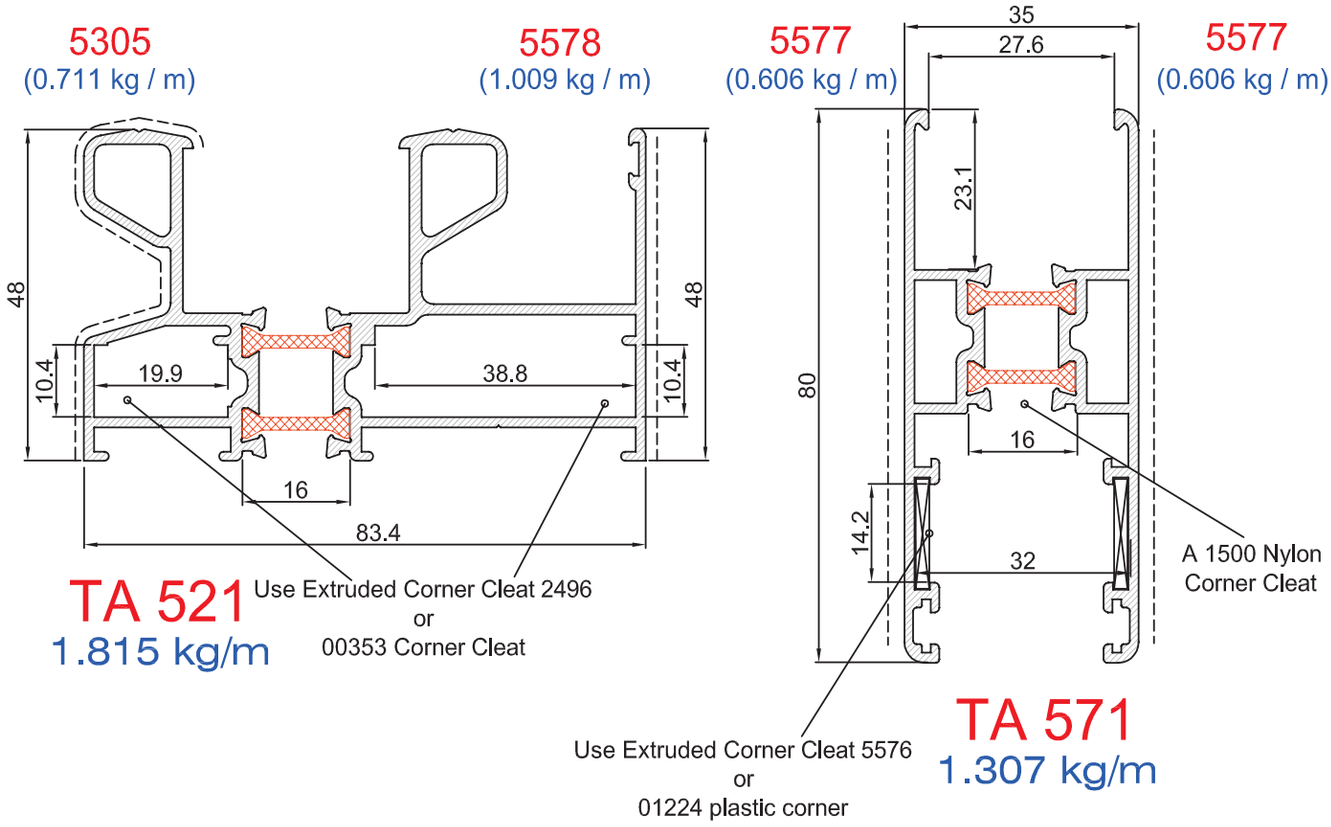
Use Extruded Corner Cleat 5278
or
0088 Corner cleat



T 2253
0.116 kg/m

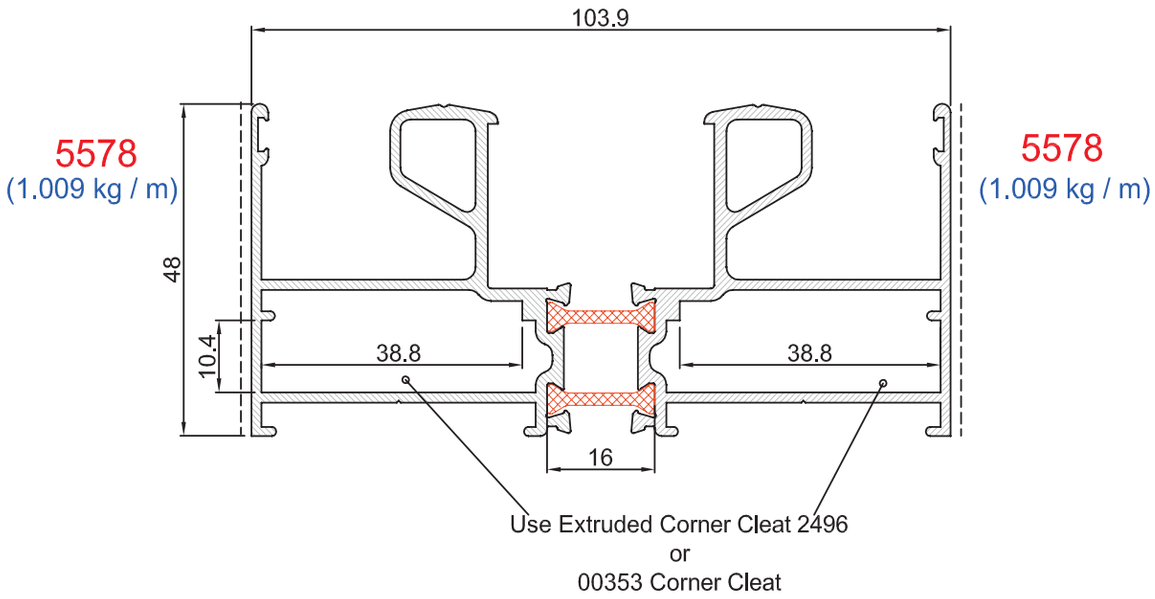
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500



TA 521
1.815 kg/m

TA 571
1.307 kg/m



TA 531
2.113 kg/m

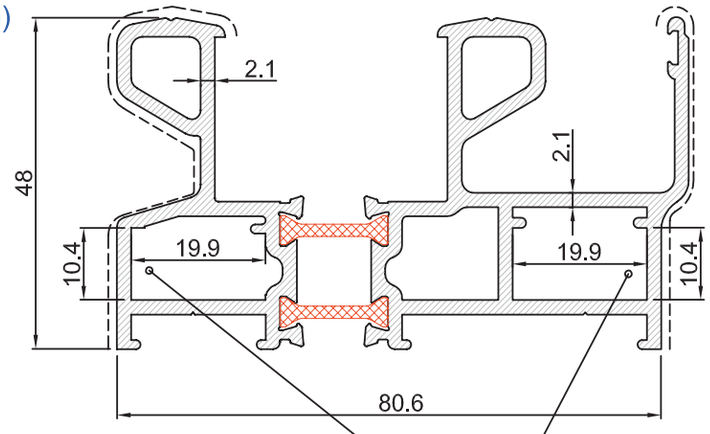
SLIDING SERIES THERMAL BREAK WINDOWS AND DOORS SECTIONS

ECO - 500

HEAVY DUTY PROFILES (2.1mm THICK)

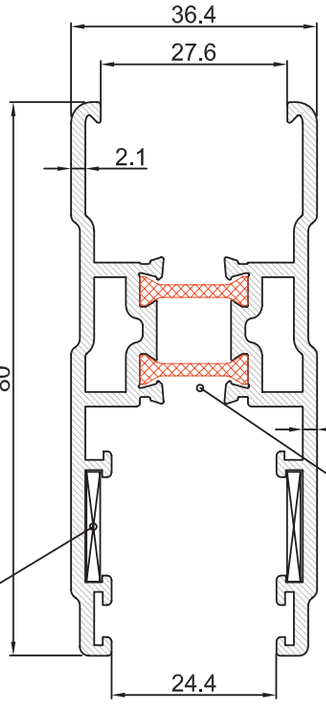
5475
(0.886 kg / m)

5473
(1.333 kg / m)



Use Extruded Corner Cleat 2496
or
00353 Corner Cleat

TA 600
2.314 kg/m



5474
0.772 kg / m)

5474
0.772 kg / m)

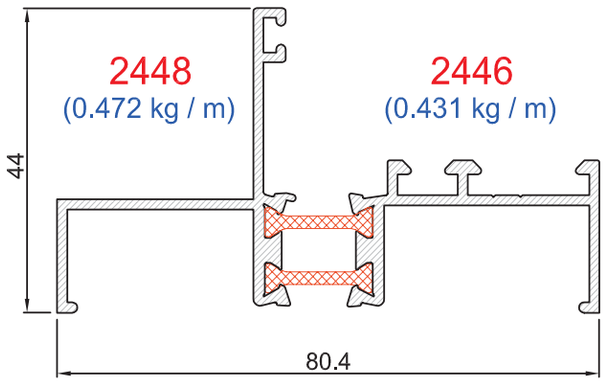
A 1500 Nylon
Corner Cleat

Use Extruded Corner Cleat 5576
or
01224 plastic corner

TA 610
1.639 kg/m

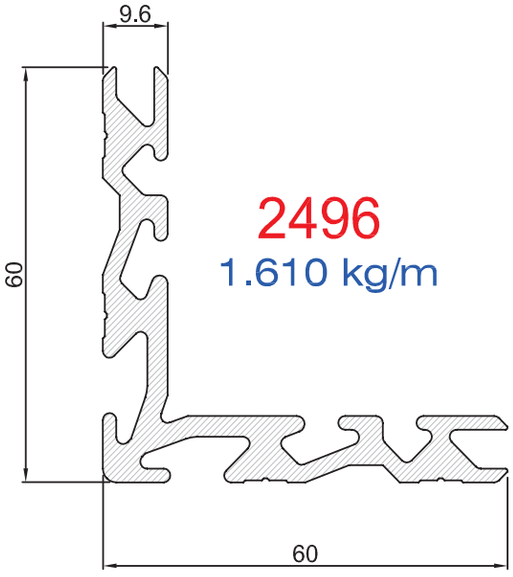
SLIDING WINDOWS AND DOORS
SECTIONS TOP FIXLITE

ECO - 500

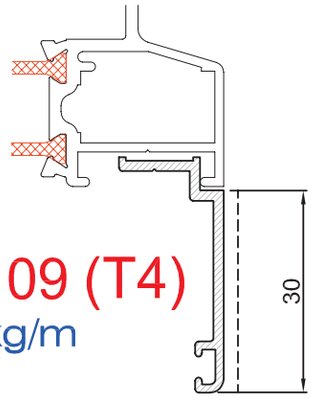


T 542 (T4)
0.998 kg/m

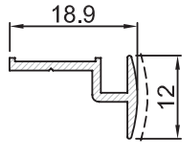
T 2254
0.335 kg/m



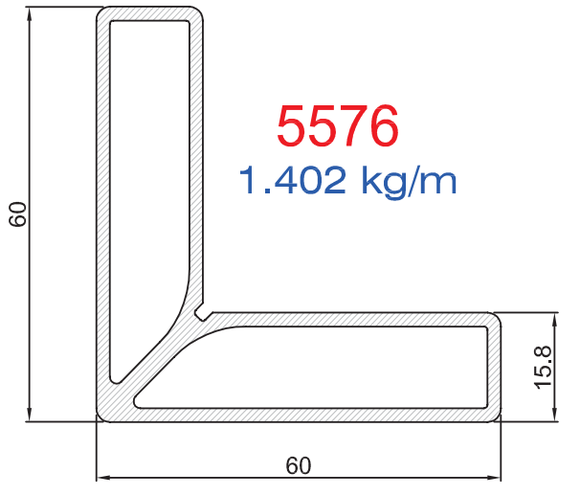
2496
1.610 kg/m



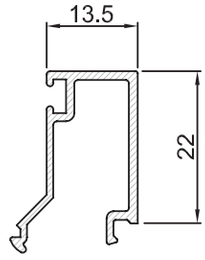
T 3109 (T4)
0.214 kg/m



T 2253
0.116 kg/m



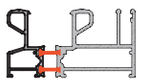
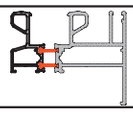
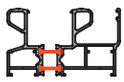
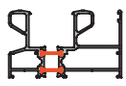
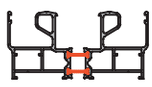
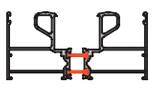
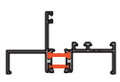
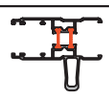
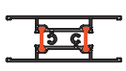
5576
1.402 kg/m



T 2283 (T4)
0.235 kg/m

THERMAL BREAK SLIDING SERIES
SECTIONS MOMENT OF INERTIA

ECO - 500

Y / X X' / Y'	Sec. No.	Ixx' (CM⁴)	Iyy' (CM⁴)		Y / X X' / Y'	Sec. No.	Ixx' (CM⁴)	Iyy' (CM⁴)	
	TA 510	11.51	22.20						
	TA 511	14.64	64.74						
	TA 512	19.61	72.83						
	TA 520	13.29	44.07						
	TA 521	13.24	45.12						
	TA 530	15.06	76.12						
	TA 531	14.96	77.66						
	TA 542	17.71	03.50						
	TA 570	19.09	08.84						
	TA 571	19.13	08.96						
	TA 580	20.97	19.43						
	TA 590	21.98	07.64						
	TA 600	16.34	58.83						
	TA 610	24.40	12.09						