

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 supersedes the earlier issue, has been engineered to synergize aesthetics with ease 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 CASEMENT SERIES

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ECO - 500 CASEMENT

Certificate of Testing



**THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS**

Certificate Number: CHL06

Date: 2007 December

Project: ECO-500 Thermal Casement Window

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

System: ECO-500 Thermal Casement Window

Tested for:	Operation Force Test	Pass
	Air Infiltration Test	Pass
	Static Cyclic Water Penetration Test	Pass
	Structural Performance Test, (+/-)	Pass
	Repeat Static Cyclic Water Penetration Test	Pass
	Structural Performance Test @ 150%	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
Sandy Dweik
Quality Manager




Clarence P. Facun
Testing Engineer

Date: 30 December 2007

Test Certificate of Casement Window

b. Air Infiltration Test

PROJECT NAME		ECO-500 CASEMENT THERMAL BREAK WINDOW		
Air Infiltration Test ASTM E 283		Saturday, December 15, 2007 12:20 PM	Reset Date	
AMBIENT CONDITION		Barometric Pressure 101.6 mb	Relative Humidity 63 %	
Air Temperature 22.4 °C				
TESTING ENGINEER		SPECIMEN TEST CRITERIA		
Clark Facun		Height 1 m	Width 1.8 m	Update Links
Conical nozzle dia. 90.0 mm	Nozzle connection A- PTL1 ▶	Specimen area 1.8 m ²		
	B- PT L2 ▶	Test Pressure 75 Pa		
		Length of opening joint 0.0 m		
		Permitted leakage area 2.06 m ³ /hr/m ²		
		Permitted leakage(Meter opening joint) 0.0 m ³ /hr/m		
		Total permitted leakage 3.71 m ³ /hr		
READINGS		Without Polyethylene sheet		
Chamber Pressure 75 Pa	Nozzle Pressure 2 Pa	Display	Chamber Pressure 75 Pa	Nozzle Pressure 2 Pa
Nozzle Flow 38.7 m ³ /hr		Stop 1	Nozzle Flow 38.7 m ³ /hr	Display 2 m ³ /hr
			Stop 2	
Data recorded at 12:28:48 PM			Data recorded at 12:30:28 PM	
SUMMARY RESULTS				
Specimen Leakage 0.00 m ³ /hr				Signature
Conclusion Pass				

ECO - 500 CASEMENT

c. Static Water Penetration Test

Project Name		ECO-500 CASEMENT THERMAL BREAK WINDOW			
Static Cyclic Water Penetration test ASTM E331		Date & Time	Saturday, December 15, 2007 12:45 PM		
AMBIENT CONDITION		Barometric Pressure	101.6 mb		
Air Temperature		25 °C	Relative Humidity	62 %	
		TEST CRITERIA			
		Width	1.0 m	Height	1.8 m
		Chamber Connection	B- PT L2	The spray rack will consist of	2 rows of 3 nozzles
		US gallon per minute	2.0	Test Pressure	137 Pa
		<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>Conclusion Pass</p> <p>SECONDS 0</p> <p>MINUTES 24.0</p> <p>TIMER 24 0</p> <p>CHAMBER PRESSURE 137</p> <p>Start Stop</p> <p>Zero pressure</p> </div>			Start/reset timer <u>12:38:51 PM</u>
					Calculated finishing time <u>1:02:55 PM</u>
					Actual when timer stopped <u>1:02:55 PM</u>
					Clark Facun Testing Engineer

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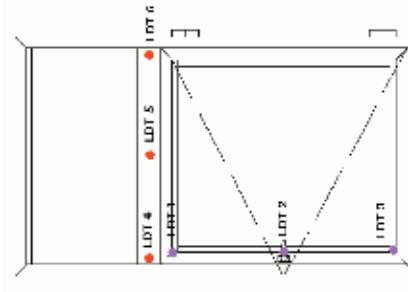
THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS
HH18ECO-500CasementWindowFR.lwp

Test Certificate of Casement Window

Test Certificate of Casement Window

d. Structural Positive Performance

Project Name: Structural Performance ASTM E 330		
Clark Facun Testing Engineer		
ECO - 500 CASEMENT THERMAL BREAK WINDOW.		
Date	Saturday, December 15, 2007 1:26 PM	
Ambient Condition		
Ambient Temperature Barometric Pressure Relative Humidity	29 101.8 62	°C mb %
Live Readings		
Chamber Pressure	722 Pa	
LDT 1 LDT 2 LDT 3 LDT 4 LDT 5	3.1 6.5 1.5 0.7 2.0	mm
LDT 6 LDT 7 LDT 8 LDT 9 LDT 10	0.7 0 0 0 0	mm
POSITIVE WIND LOAD		
Actual Mullion Deflection	4.2 mm	Pass
Actual Transom Deflection	1.3 mm	Pass
RESIDUAL DEFORMATION		
LDT 1 LDT 2 LDT 3 LDT 4 LDT 5	0.6 0.9 0.2 0 0.2	mm
LDT 6 LDT 7 LDT 8 LDT 9 LDT 10	0 0 0 0 0	mm
Conclusion	Pass ▶	
Data recorded @	1:26 PM	



ECO - 500 CASEMENT

e. Structural Negative Performance - Method A

Project Name: Structural Performance ASTM E 330	
Clark Facun	Testing Engineer
Saturday, December 15, 2007 1:26 PM	
Date	
Ambient Condition	
Ambient Temperature Barometric Pressure Relative Humidity	29 °C 101.8 mb 62%
Test Criteria	
Design wind load Mullion length to be tested Transom length to be tested Max. allowable deflection - mullion Max. allowable deflection - transom	720 Pa 1.1 m 0.9 m 6.0 mm 5.0 mm
Negative	
Live Readings NEGATIVE WIND LOAD	
Chamber Pressure	721 Pa
LDT 1	2.2 mm
LDT 2	4.8 mm
LDT 3	1.1 mm
LDT 4	0.8 mm
LDT 5	2.4 mm
LDT 6	0.7 mm
LDT 7	0 mm
LDT 8	0 mm
LDT 9	0 mm
LDT 10	0 mm
Actual Mullion Deflection	3.15
Actual Transom Deflection	1.65
Pass	
Drawing	
RESIDUAL DEFORMATION	
LDT 1	0.8 mm
LDT 2	1.9 mm
LDT 3	0.5 mm
LDT 4	0.3 mm
LDT 5	0.6 mm
LDT 6	0.2 mm
LDT 7	0 mm
LDT 8	0 mm
LDT 9	0 mm
LDT 10	0 mm
Conclusion	
Pass	
Data recorded @ 1:28 PM	

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Test Certificate of Casement Window

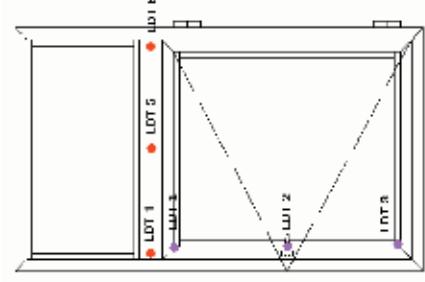
Test Certificate of Casement Window

f. Static Water Penetration Test

Project Name		ECO-500 CASEMENT THERMAL BREAK WINDOW.	
Post Structural - Static Cyclic Water Penetration test ASTM E33		Date & Time	Saturday, December 15, 2007 1:40 PM
AMBIENT CONDITION		Barometric Pressure	101.3 mb
Air Temperature 29 °C		Relative Humidity	58% %
		Update	
TEST CRITERIA			
Chamber Connection B- PT L2	Width 1.0 m	Height 1.8 m	
US gallon per minute 2.0	The spray rack will consist of 2 rows of 3 nozzles	Test Pressure 137 Pa	
Conclusion Pass ▶			
TIMEKEEPING			
HOUR 0	MINUTES 24.0	SECONDS 0	TIMER 1
Start	Stop		
CHAMBER PRESSURE			
Zero pressure	143		
Clark Facun	Testing Engineer		

ECO - 500 CASEMENT

g. Structural Positive Performance @ 1.5 Design Wind Load - Method A

Project Name: Structural Performance ASTM E 330 - Safety		Date Saturday, December 15, 2007 3:15 PM	
Clark Facun Testing Engineer		Ambient Condition Ambient Temperature 31 °C Barometric Pressure 101.3 mb Relative Humidity 56%	
Live Readings Chamber Pressure 1080 Pa		Test Criteria Design wind load 1080 Pa Mullion length to be tested 1.1 m Transom length to be tested 0.9 m Max. allowable deformation - mullion 1.0 mm Max. allowable deformation - transom 1.0 mm	
POSITIVE WIND LOAD		 Drawing	
RESIDUAL DEFORMATION		Actual Mullion Deflection 5.45 mm Actual Transom Deflection 1.85 mm Actual Mullion Deformation 0.8 mm Actual Mullion Deformation Pass	
		Data recorded @ 3:21 PM	

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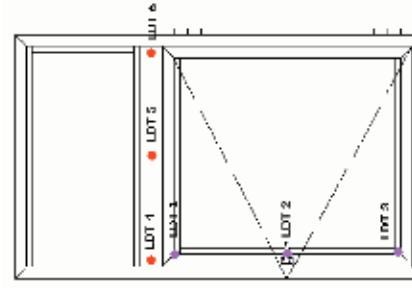
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HH18ECO-500CasementWindowFR.lwp

Test Certificate of Casement Window

Test Certificate of Casement Window

h. Structural Negative Performance @ 1.5 Design Wind Load - Method A

Project Name: Structural Performance ASTM E 330 - Safety		ECO-500 CASEMENT THERMAL BREAK WINDOW.	
Clark Facun Testing Engineer		Date	Saturday, December 15, 2007 3:21 PM
Ambient Condition			
Ambient Temperature Barometric Pressure Relative Humidity	31 °C 101.3 mb 56%	Design wind load Mullion length to be tested Transom length to be tested Max. allowable deflection - mullion Max. allowable deflection - transom	1080 Pa 1.1 m 0.9 m 1.0 mm 1.0 mm
Negative			
Live Readings		NEGATIVE WIND LOAD	
Chamber Pressure	1081 Pa	Actual Mullion Deflection	2.55
LDT 1	1.7 mm	LDT 6	0.8 mm
LDT 2	4 mm	LDT 7	0 mm
LDT 3	1.2 mm	LDT 8	0 mm
LDT 4	1 mm	LDT 9	0 mm
LDT 5	3.1 mm	LDT 10	0 mm
RESIDUAL DEFORMATION		Actual Mullion Deformation	
LDT 1	0.3 mm	LDT 6	0.1 mm
LDT 2	0.5 mm	LDT 7	0 mm
LDT 3	0.1 mm	LDT 8	0 mm
LDT 4	0.1 mm	LDT 9	0 mm
LDT 5	0.6 mm	LDT 10	0 mm
Data recorded @ 3:36 PM			



ECO - 500 CASEMENT

THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2

Theory

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

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

with:

U_f : thermal transmittance of the window frame [W/m²K]

U_p : thermal transmittance of the flanking panel [W/m²K]

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 (θ_i) and outside (θ_e) [K]

POWERED BY



TECHNOFORM BAUTEC

Calculation

Item: elite 21 lateral section bisco re

input data:	$q_{l,tot} = 12.158$ W/m	$R_{se} = 0.04$ m ² K/W
	$\theta_e = 0.0$ °C	$R_{si} = 0.13$ m ² K/W
	$\theta_i = 20.0$ °C	
	$d_p = 0.0238$ m	
	$\lambda_p = 0.035$ W/m*K	
	$U_p = 1.176$ W/m ² K	
	$l_p = 0.190$ m	
		calculation results:
		$L_{2D} = 0.61$ W/mK
	$l_f = 0.0955$ m	$U_f = 4.02$ 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:

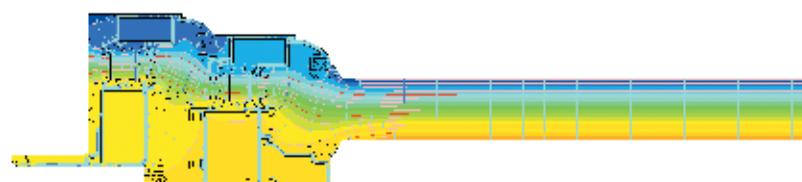
$$U_p = \left[\frac{1}{h_e} + \sum \frac{d_p}{\lambda_p} + \frac{1}{h_i} \right]^{-1}$$

with: h_e / h_i ext./int. surface heat transfer coeff. [W/m²K]

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 CASEMENT

THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2

Theory

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

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

with:

U_f : thermal transmittance of the window frame [W/m²K]

U_p : thermal transmittance of the flanking panel [W/m²K]

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 (θ_i) and outside (θ_e) [K]

POWERED BY



TECHNOFORM BAUTEC

Calculation

Item: elite cental section bisco 2

input data:	$q_{l,tot} = 19.704$ W/m	$R_{se} = 0.04$ m ² K/W
	$\theta_e = 0.0$ °C	$R_{si} = 0.13$ m ² K/W
	$\theta_i = 20.0$ °C	
	$d_p = 0.0241$ m	
	$\lambda_p = 0.035$ W/m*K	
	$U_p = 1.165$ W/m ² K	
	$l_p = 0.390$ m	
		calculation results:
		$L_{2D} = 0.99$ W/mK
	$l_f = 0.1521$ m	$U_f = 3.49$ W/m ² K

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

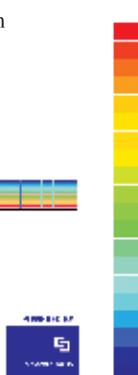
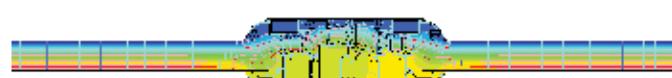
$\Delta\theta$: input data, surface boundary conditions:
inside temperature minus outside temperature

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/m²K]
 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 CASEMENT

Material Data Sheet

Insulating Profiles made of PA 66 GF25 – dry impact resistant

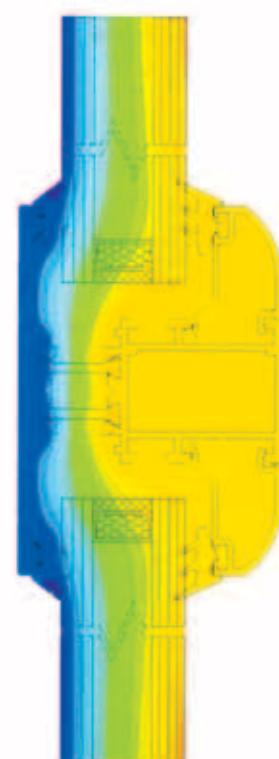
No.	Characteristic	Reference standard	Unit	Samples prepared from extruded insulating strips		Injected-moulded samples
				Dry ①	Humidity equilibrium ②	
1	Melting temperature	EN ISO 11357-3	°C	min. 250	min. 250	min. 250
2	Density	EN ISO 1183-1 or -3	g / cm ³	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
3	Annealing residue (glass fibre content)	EN ISO 1172	%	25 +/- 2.5	25 +/- 2.5	25 +/- 2.5
4	Shore hardness D	EN ISO 868	—	82 +/- 4	78 +/- 4	82 +/- 4
5	Impact strength	EN ISO 179-1 ③ / DIN 53453	kJ / m ²	min. 30 or without break	min. 40 or without break	min. 35 or without break
6	Tensile strength	EN ISO 527-2 and -4	N / mm ²	min. 80	min. 50	min. 110
7	Young's modulus	EN ISO 527-2 and -4	N / mm ²	min. 4,500	min. 2,000	min. 6,000
8	Elongation at break	EN ISO 527-2 and -4	%	min. 3	min. 7	min. 3

①) Sample water content less than 0.2 % by weight

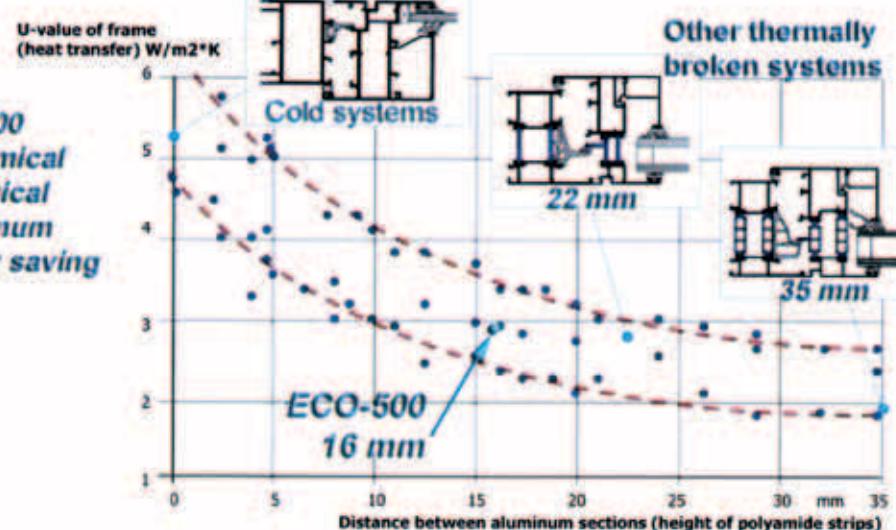
②) Equilibrium state (EN ISO 1110)

③) Method 1FU

ISOTHERMIC DIAGRAM ECO-500 application

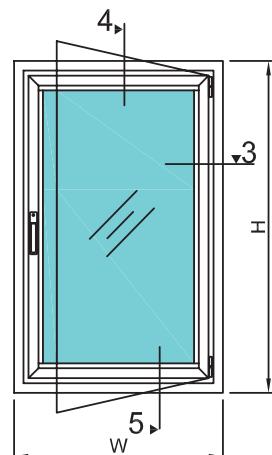


Energy saving depends on height of polyamide strips (schematically)

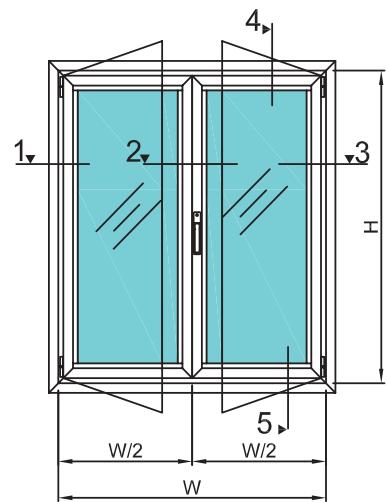


SIDE HUNG WINDOW INWARD OPENABLE

ECO - 500

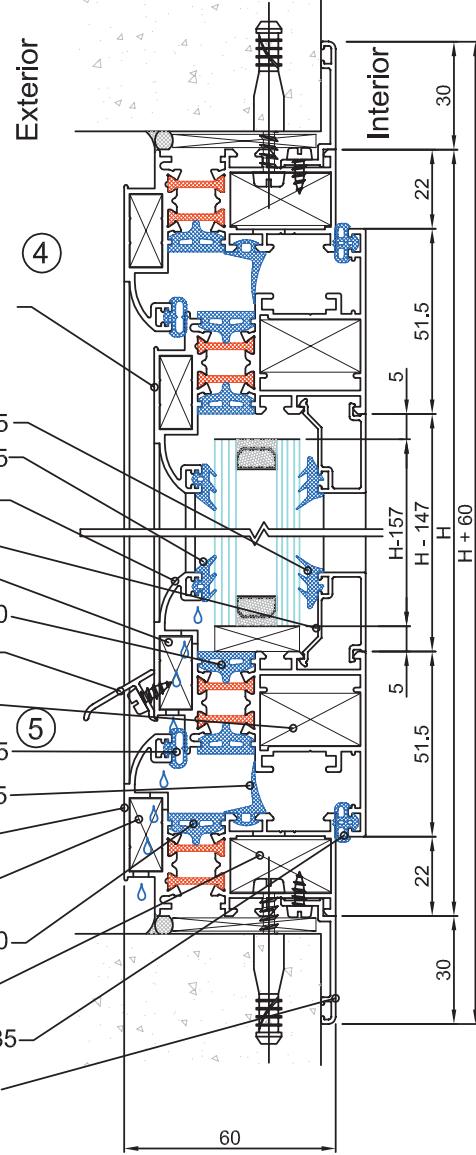
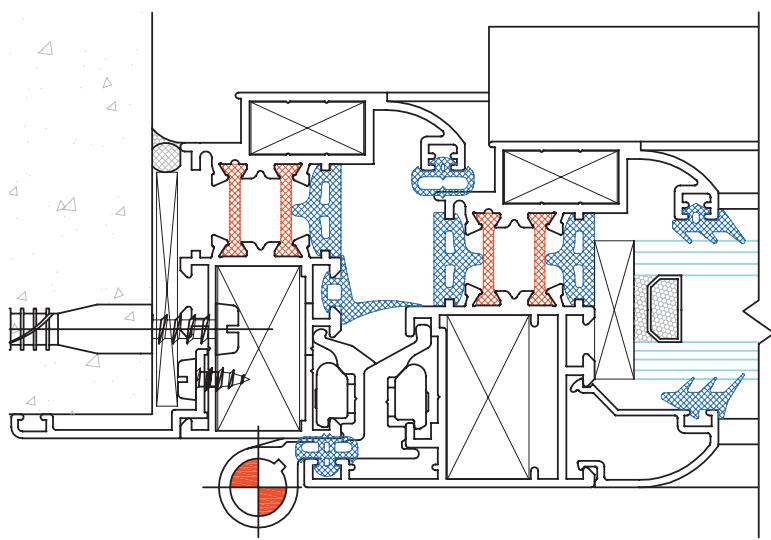


SINGLE LEAF

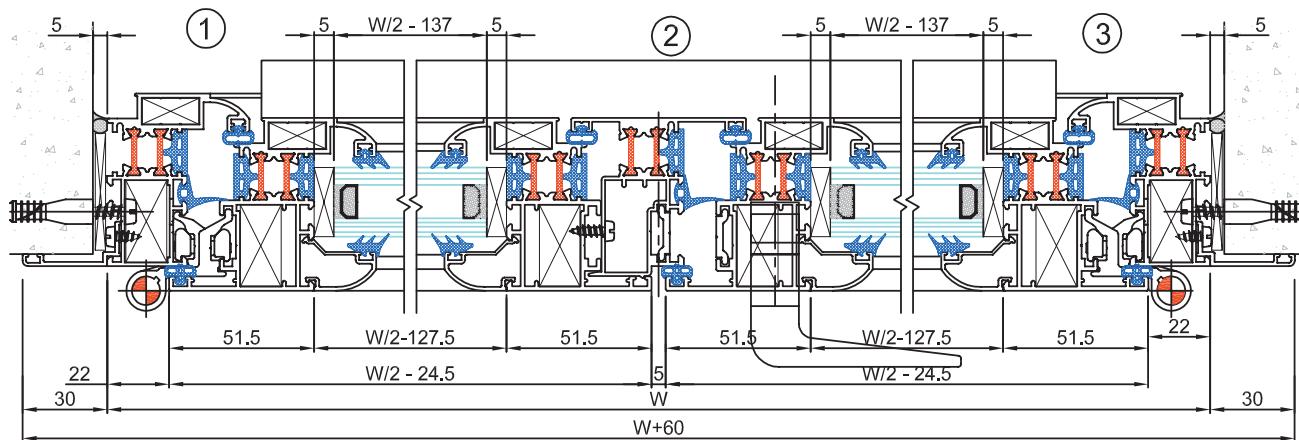


DOUBLE LEAF

①



Exterior

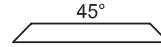
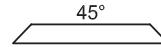
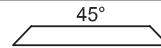
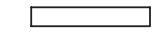
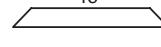
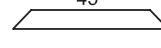
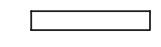
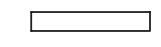
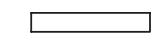
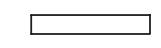
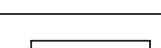


Interior

THERMAL BREAK SIDE HUNG WINDOW INWARD OPENABLE

ECO - 500

PROFILE CUTTING LIST

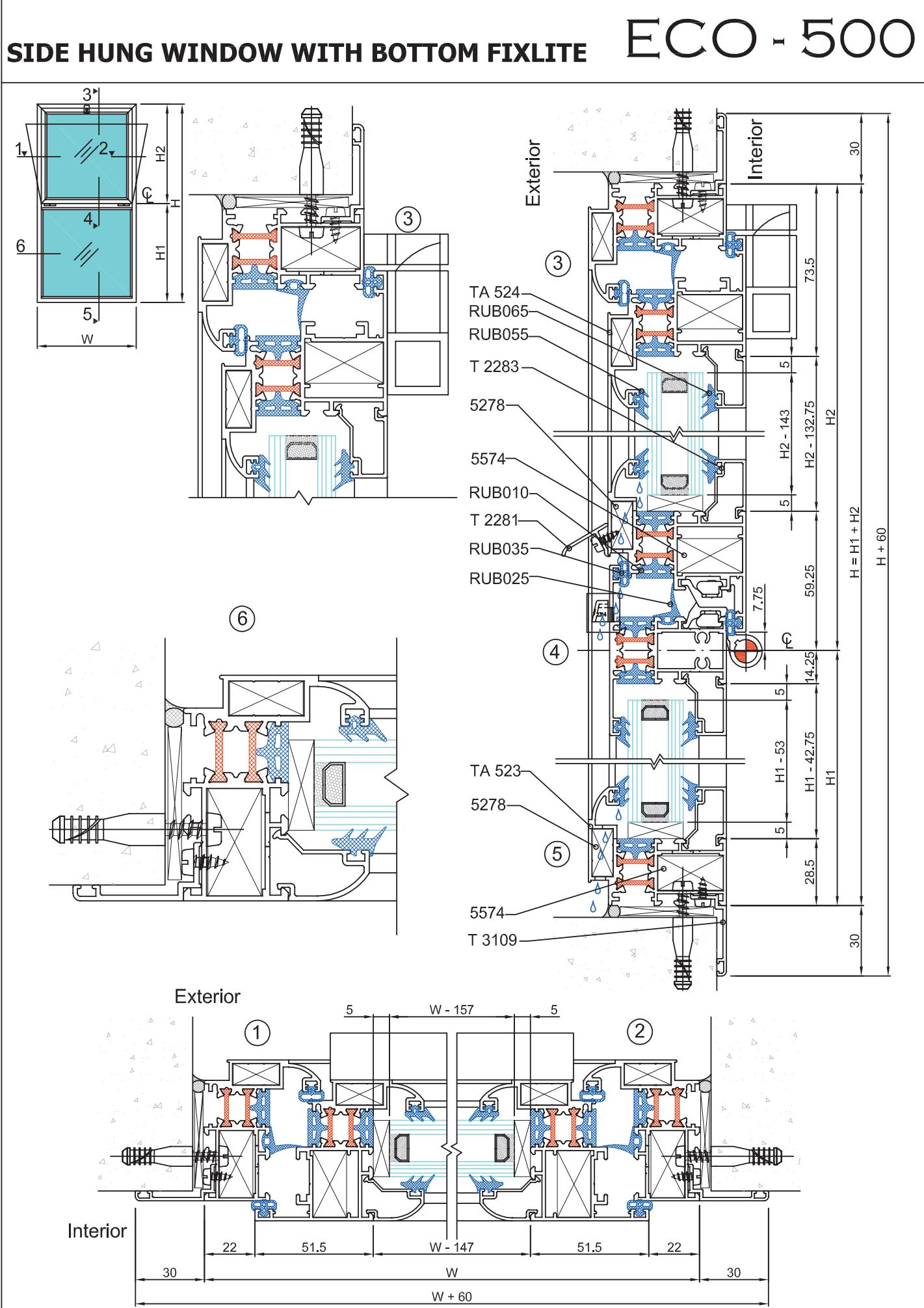
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 523		W	02	W
2.	FRAME HEIGHT	TA 523		H	02	H
3.	SASH WIDTH	TA 524		W - 44	02	W - 44 (SINGLE W)
4.	SASH HEIGHT				04	W/2 - 24.5(DOUBLE W)
5.	ADOPTER	TA 518		H - 44	01	H - 44
6.	CONNECTING ROD	T 2310		1 - H	01	1H
7.	DROPER WIDTH	T 2281		W - 44	01	W - 44 (SINGLE W)
					02	W/2 - 24.5(DOUBLE W)
8.	ARCHITRIVE WIDTH	T 3109		W + 60	02	W + 60
9.	ARCHITRIVE HEIGHT	T 3109		H + 60	02	H + 60
10.	GL CLIP	T 2283		W - 147	02	W - 147 (SINGLE W)
					04	W/2 - 127.5(DOUBLE W)
11.	GL CLIP	T 2282		H - 191	02	H - 191 (SINGLE W)
					04	H - 191 (DOUBLE W)
12.	CORNER CLEAT FOR FRAME	5574		28.0	04	MILL FINISH
13.	CORNER CLEAT FOR FRAME	5278		8.3	04	MILL FINISH (SINGLE W)
14.	CORNER CLEAT FOR SASH				08	MILL FINISH (DOUBLE W)
15.	CORNER CLEAT FOR SASH	5278		8.3	04	MILL FINISH (SINGLE W)
					08	MILL FINISH (DOUBLE W)

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF
1.	00120N	HINGES FOR OVERLAP	P. C	02	04
2.	01150	UNICA HANDLE	P. C	01	01
3.	04070	KIT FOR HANDLE (OPEN IN)	M. F	01	01
4.	0103	WING CLOSING PLUG	M. F	-	1 SET
5.	02111	FLUSH BOLT FOR COMBINED WING	M. F	-	1 SET
6.	A300	PLASTIC 5mm GL BLOCK	M. F	04	08
7.	0365	CORNER ALIGNMENT CLEAT	M. F	08	12
8.	2314	DRAIN HOLE COVER	M. F	02	03

E.P.D.M. GASKET LIST

ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	RUB 035	IMPACT GASKET INTERNAL	2W + 2H	2W + 4H
2.	RUB 025	CENTER GASKET	2W + 2H	2W + 4H
3.	RUB 055	OUTER GASKET	2W + 2H	2W + 4H
4.	RUB 065	INNER GASKET	2W + 2H	2W + 4H
5.	RUB 015	IMPACT GASKET EXTERNAL	2W + 2H	2W + 4H
6.	RUB 010	THEMAL BREAK FILLER GASKET	2W + 2H	2W + 4H



THERMAL BREAK SIDE HUNG WINDOW INWARD OPENABLE

ECO - 500

PROFILE CUTTING LIST

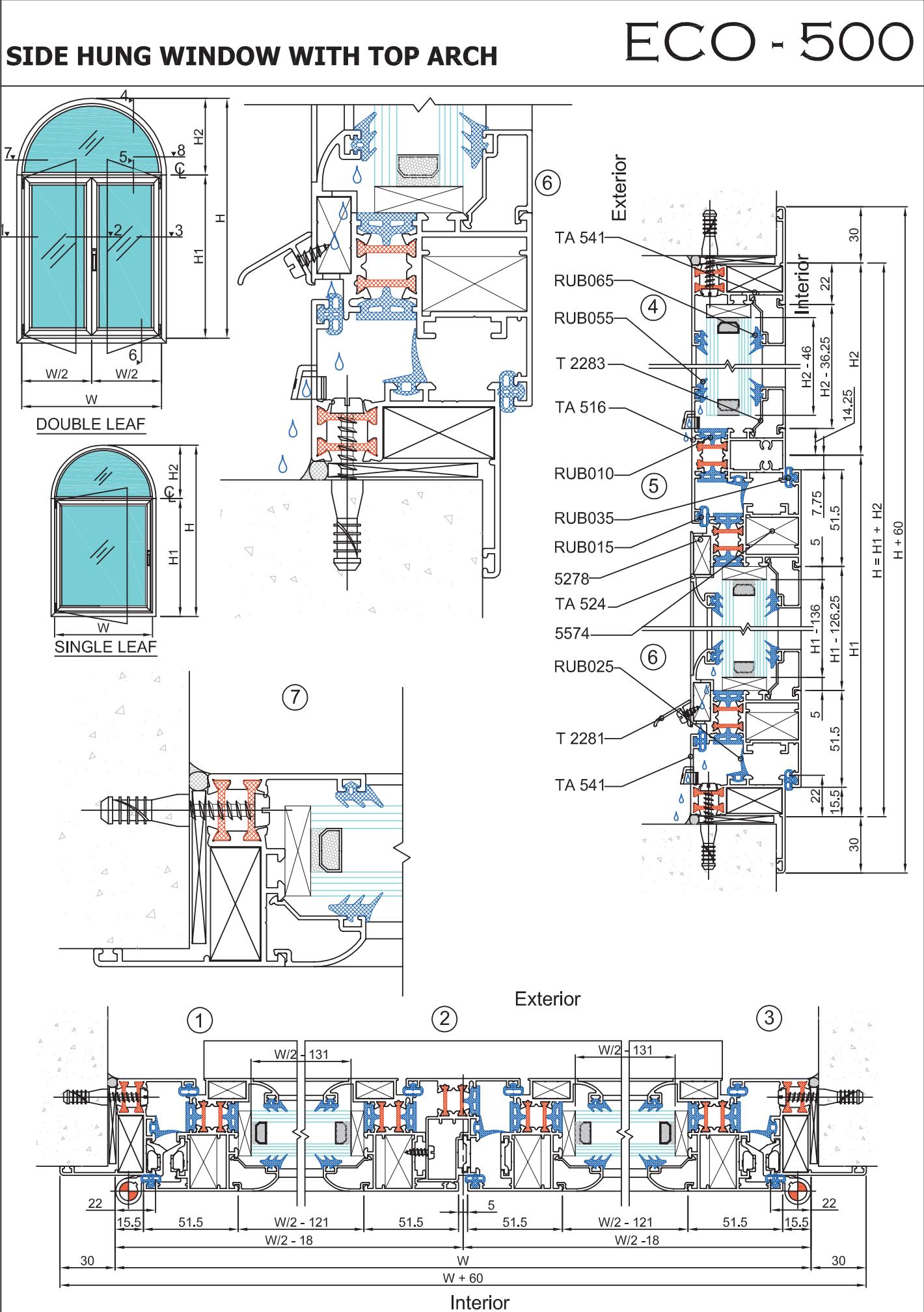
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 523	 45°	W	02	W
2.	FRAME HEIGHT	TA 523	 45°	H	02	H
3.	SASH WIDTH	TA 524	 45°	W - 44	02	W - 44
4.	SASH HEIGHT	TA 524	 45°	H - 44	02	H1 - 30
5.	T SECTION	TA 516		W - 57	01	W - 57
6.	DROPER WIDTH	T 2281		W - 44	01	W - 44
7.	ARCHITRIVE WIDTH	T 3109	 45°	W + 60	02	W + 60
8.	ARCHITRIVE HEIGHT	T 3109	 45°	H + 60	02	H + 60
9.	GL CLIP WIDTH	T 2283		W - 147 W - 57	02 02	W - 147 FOR SASH W/2 - 57 FOR FIXLITE
10.	GL CLIP HEIGHT	T 2282		H - 177 H - 87	02 02	H - 177 FOR SASH H - 87 FOR FIXLITE
11.	CORNER CLEAT FOR FRAME	5574		28.0	04	MILL FINISH
12.	CORNER CLEAT FOR FRAME	5278		8.3	04 08	MILL FINISH MILL FINISH
13.	CORNER CLEAT FOR SASH	5574		28.0	04	MILL FINISH
14.	CORNER CLEAT FOR SASH	5278		8.3	04	MILL FINISH

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF
1.	00120N	HINGES FOR OVERLAP	P. C	02
2.	01701	FINGER CATCHER	P. C	01
3.	02040	STAY ARM	M. F	01 SET
4.	A300	PLASTIC 5mm GL BLOCK	M. F	08
5.	0365	CORNER ALIGNMENT CLEAT	M. F	08
6.	2314	DRAIN HOLE COVER	M. F	04

E.P.D.M. GASKET LIST

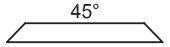
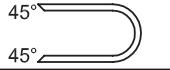
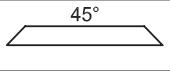
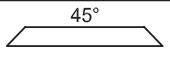
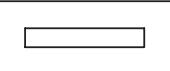
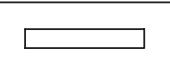
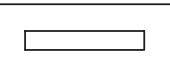
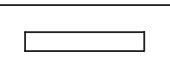
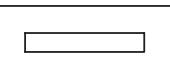
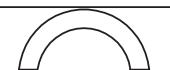
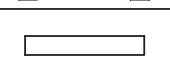
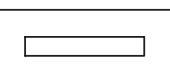
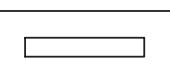
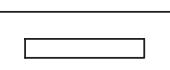
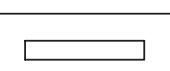
ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF
1.	RUB 035	IMPACT GASKET INTERNAL	1W + 1H
2.	RUB 025	CENTER GASKET	1W + 1H
3.	RUB 055	OUTER GASKET	1W + 2H
4.	RUB 065	INNER GASKET	2W + 2H
5.	RUB 015	IMPACT GASKET EXTERNAL	1W + 1H
6.	RUB 010	THEMAL BREAK FILLER GASKET	2W + 2H



THERMAL BREAK SIDE HUNG WINDOW INWARD OPENABLE

ECO - 500

PROFILE CUTTING LIST

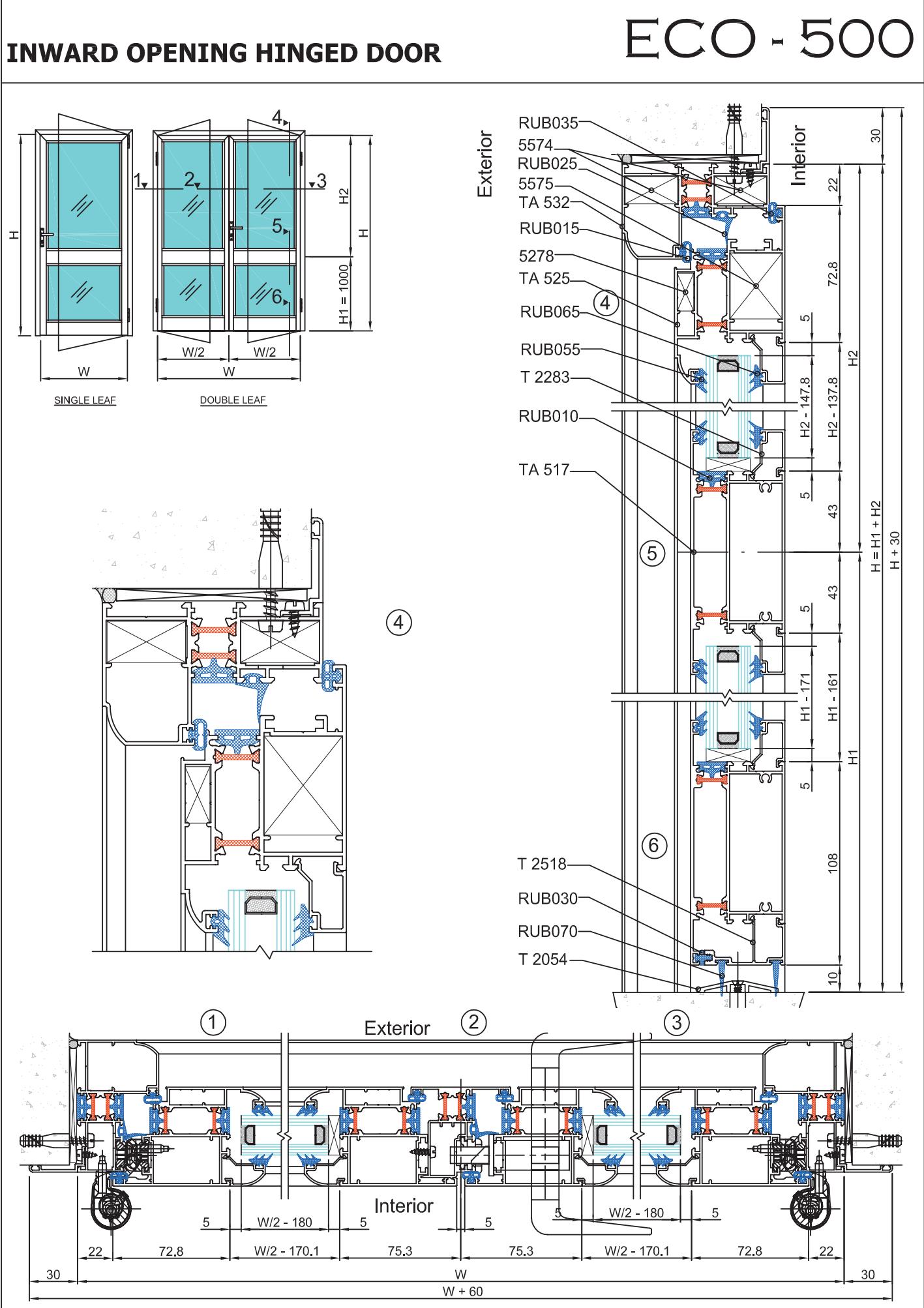
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 541		W	01	
2.	 (T4) FRAME HEIGHT	TA 541		H	01	2H1 + (3.14XD/2)
3.	 SASH WIDTH	TA 524		W - 44	02	W - 31 (SINGLE W)
4.	 SASH HEIGHT	TA 524		H1 - 23	02	(SINGLE W)
5.	 ADOPTER	TA 518		H1 - 23	04	(DOUBLE W)
6.	 T SECTION	TA 516		W - 31	01	W - 31
7.	 CONNECTING ROD	T 2310		1 - H1	01	1H
8.	 DROPER WIDTH	T 2281		W	01	W - 31 (SINGLE W)
					02	W/2 - 18 (DOUBLE W)
9.	 GL CLIP WIDTH	T 2283		W - 31	01	W - 31
10.	 GL CLIP T4 RADIUS	T 2283		(3.14XD)/2	01	(3.14XD)/2
11.	 GL CLIP WIDTH	T 2283		W	02	W - 134 (SINGLE W)
					04	W/2 - 121 (DOUBLE W)
12.	 GL CLIP HEIGHT	T 2282		H -170	02	SINGLE W
					04	DOUBLE W
13.	 CORNER CLEAT FOR FRAME	2261		28.0	02	MILL FINISH
				27.0	02	
14.	 CORNER CLEAT FOR SASH	5574		28.0	04	MILL FINISH (SINGLE W)
					08	MILL FINISH (DOUBLE W)
15.	 CORNER CLEAT FOR SASH	5278		8.3	04	MILL FINISH (SINGLE W)
					08	MILL FINISH (DOUBLE W)

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF
1.	00120N	HINGES FOR OVERLAP	P. C	02	04
2.	01150	UNICA HANDLE	P. C	01	01
3.	04070	KIT FOR HANDLE (OPEN IN)	M. F	01	01
4.	0103	WING CLOSING PLUG	M. F	-	1 SET
5.	02111	FLUSH BOLT FOR COMBINED WING	M. F	-	1 SET
6.	A300	PLASTIC 5mm GL BLOCK	M. F	04	08
7.	0365	CORNER ALIGNMENT CLEAT	M. F	08	12
8.	2314	DRAIN HOLE COVER	M. F	02	03

E.P.D.M. GASKET LIST

ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	RUB 035	IMPACT GASKET INTERNAL	2W + 2H	2W + 4H
2.	RUB 025	CENTER GASKET	2W + 2H	2W + 4H
3.	RUB 055	OUTER GASKET	2W + 2H	2W + 4H
4.	RUB 065	INNER GASKET	2W + 2H	2W + 4H
5.	RUB 015	IMPACT GASKET EXTERNAL	2W + 2H	2W + 4H
6.	RUB 010	THEMAL BREAK FILLER GASKET	2W + 2H	2W + 4H



THERMAL BREAK INWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

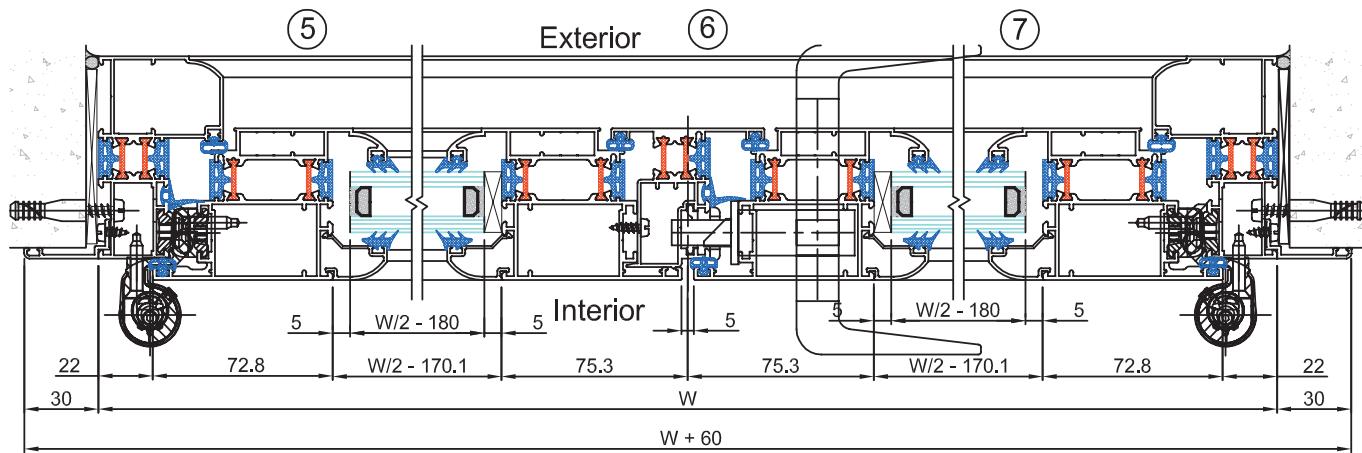
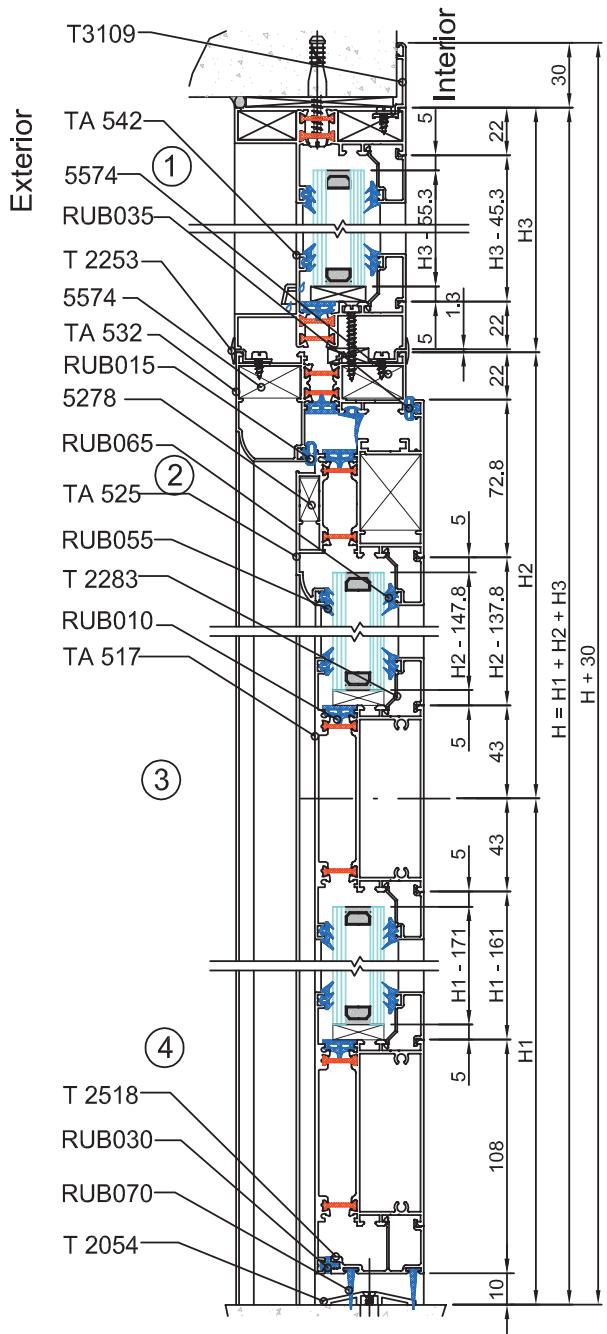
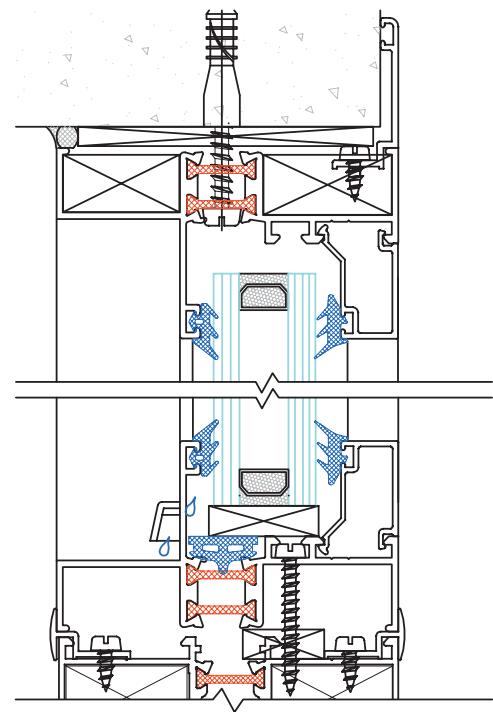
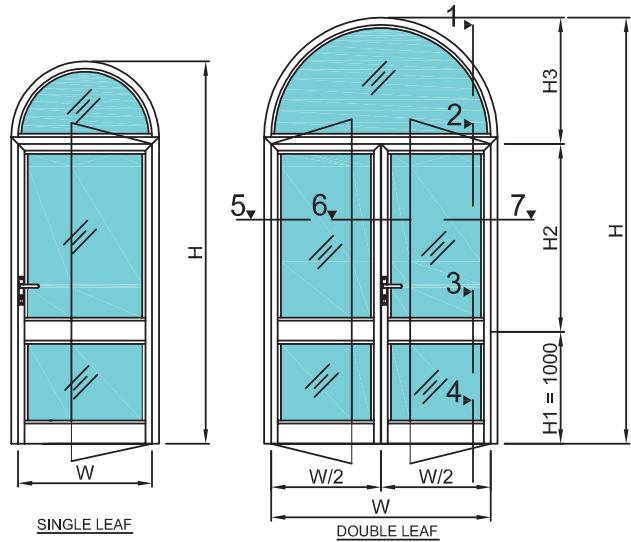
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 532	45°	W	01	FOR SINGLE & DOUBLE D
2.	FRAME HEIGHT	TA 532	45° 1 AS SHOWN 1 AS REVERSE	H	02	FOR SINGLE & DOUBLE D
3.	SASH WIDTH	TA 525	45°		01 02	W - 44 (SINGLE D) W/2 - 24.5(DOUBLE D)
4.	SASH HEIGHT	TA 525	45° 2 AS SHOWN 2 AS REVERSE		02 04	H - 32 (SINGLE D) H - 32 (DOUBLE D)
5.	ADOPTER	TA 518			00 01	(SINGLE D) H - 32 (DOUBLE D)
6.	MIDRAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
7.	BOTTOM RAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
8.	BRUSH HOLDER	T 2518			01 02	W - 80 (SINGLE D) W/2 - 54.5 (DOUBLE D)
9.	THRESHOULD	T 2054		W - 57	01	W - 57
10.	GL BEAD WIDTH FOR SASH	T 2283			04 08	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
11.	GL BEAD HEIGHT FOR SASH	T 2282			02 04	H1 - 195 (SINGLE D) H1 - 195 (DOUBLE D)
12.	GL BEAD HEIGHT	T 2282			02 04	H2 - 181.8 (SINGLE D) H2 - 181.8 (DOUBLE D)
13.	CORNER CLEAT FOR FRAME	5574		28.5	04 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
14.	CORNER CLEAT FOR SASH	5575		28.0	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
15.	CORNER CLEAT FOR SASH	5278		8.5	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
16.	ARCHITRIVE	T 3109	45°	W + 60	01 01	(SINGLE D) (DOUBLE D)
17.	ARCHITRIVE	T 3109	45° 1 AS SHOWN 1 AS REVERSE	H + 30	02 02	(SINGLE D) (DOUBLE D)

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	00598	DOOR HINGES	P. C	02	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W + 2H	1W + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H	1W + 4H
3.	02111	FLUSH BOLT	M. F	-	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	2W + 4H	2W + 8H
4.	00365	ALIGNMENT CORNER		01	04	4.	RUB 025	CENTER GASKET	1W + 2H	1W + 3H
5.	01314	STRICKER LATCH		-	01	5.	RUB 055	INTERNAL GLAZING GASKET	4W + 2H	4W + 8H
6.	2144	BRASS BUSH		-	01	6.	RUB 065	EXTERNAL GLAZING GASKET	4W + 2H	4W + 8H
7.	91135XC	DOMUS LOCK SET		01	01	7.	RUB 070	THRESHOULD GASKET	2W	2W
8.	16075K	DOMUS CYLINDER 74mm		01	01					
9.	90185X	DOMUS STRIKING PLATE		01	01					

INWARD OPENING HINGED DOOR WITH TOP FIXLITE

ECO - 500



THERMAL BREAK INWARD OPENING HINGED DOOR

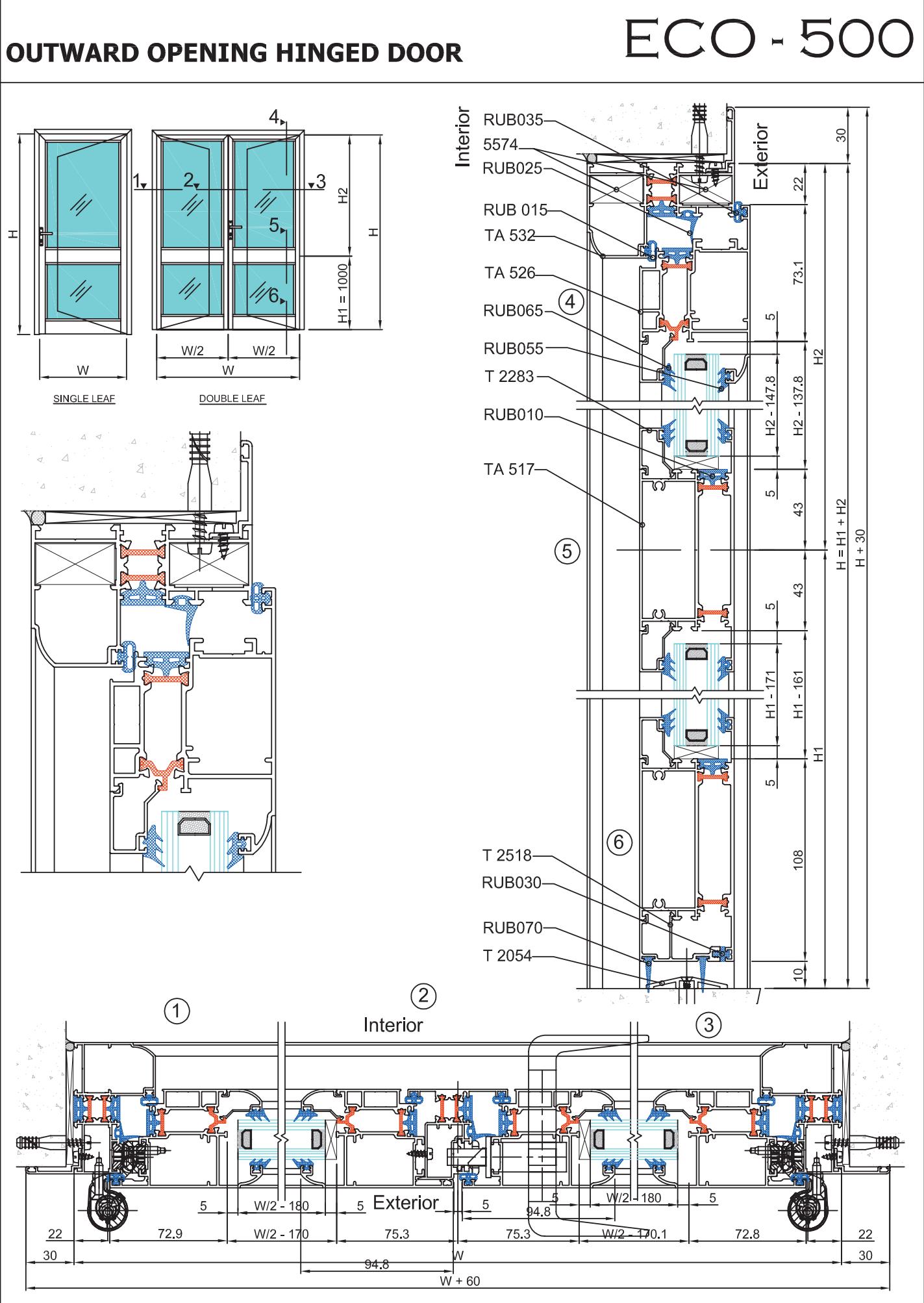
ECO - 500

PROFILE CUTTING LIST

ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 532		W	01	FOR SINGLE & DOUBLE D
2.	FRAME HEIGHT	TA 532	 1 AS SHOWN 1 AS REVERSE	H	02	FOR SINGLE & DOUBLE D
3.	SASH WIDTH	TA 525			01 02	W - 44 (SINGLE D) W/2 - 24.5(DOUBLE D)
4.	SASH HEIGHT	TA 525	 2 AS SHOWN 2 AS REVERSE		02 04	H - 32 (SINGLE D) H - 32 (DOUBLE D)
5.	ADOPTER	TA 518			00 01	(SINGLE D) H - 32 (DOUBLE D)
6.	MIDRAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
7.	BOTTOM RAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
8.	BRUSH HOLDER	T 2518			01 02	W - 80 (SINGLE D) W/2 - 54.5 (DOUBLE D)
9.	THRESHOULD	T 2054		W - 57	01	W - 57
10.	GL BEAD WIDTH FOR SASH	T 2283			04 08	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
11.	GL BEAD HEIGHT FOR SASH	T 2282			02 04	H1 - 195 (SINGLE D) H1 - 195 (DOUBLE D)
12.	GL BEAD HEIGHT	T 2282			02 04	H2 - 181.8 (SINGLE D) H2 - 181.8 (DOUBLE D)
13.	CORNER CLEAT FOR FRAME	5574		28.5	04 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
14.	CORNER CLEAT FOR SASH	5575		28.0	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
15.	CORNER CLEAT FOR SASH	5278		8.5	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
16.	ARCHITRIVE	T 3109		W + 60	01 01	(SINGLE D) (DOUBLE D)
17.	ARCHITRIVE	T 3109	 1 AS SHOWN 1 AS REVERSE	H + 30	02 02	(SINGLE D) (DOUBLE D)
18.	FRAME	TA 543		W	01	
19.	FRAME (T4) ARCH	TA 543		(3.14XD)/2	01	(3.14XD)/2
20.	GL BEAD WIDTH FOR SASH	T 2283		W - 57	01	W - 57
21.	GL BEAD WIDTH FOR SASH	T 2283		(3.14XD)/2	01	(3.14XD)/2
22.	ARCHITRIVE	T 3109		(3.14XD)/2	01	(3.14XD)/2
23.	CONNECTOR	T 2253		W	01	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	00598	DOOR HINGES	P. C	02	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W + 2H	1W + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H	1W + 4H
3.	02111	FLUSH BOLT	M. F	-	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	2W + 4H	2W + 8H
4.	00365	ALIGNMENT CORNER		01	04	4.	RUB 025	CENTER GASKET	1W + 2H	1W + 3H
5.	01314	STRICKER LATCH		-	01	5.	RUB 055	INTERNAL GLAZING GASKET	6W + 2H	4W + 8H
6.	2144	BRASS BUSH		-	01	6.	RUB 065	EXTERNAL GLAZING GASKET	6W + 2H	4W + 8H
7.	91135XC	DOMUS LOCK SET		01	01	7.	RUB 070	THRESHOULD GASKET	2W	2W
8.	16075K	DOMUS CYLINDER 74mm		01	01					
9.	90185X	DOMUS STRIKING PLATE		01	01					



THERMAL BREAK OUTWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

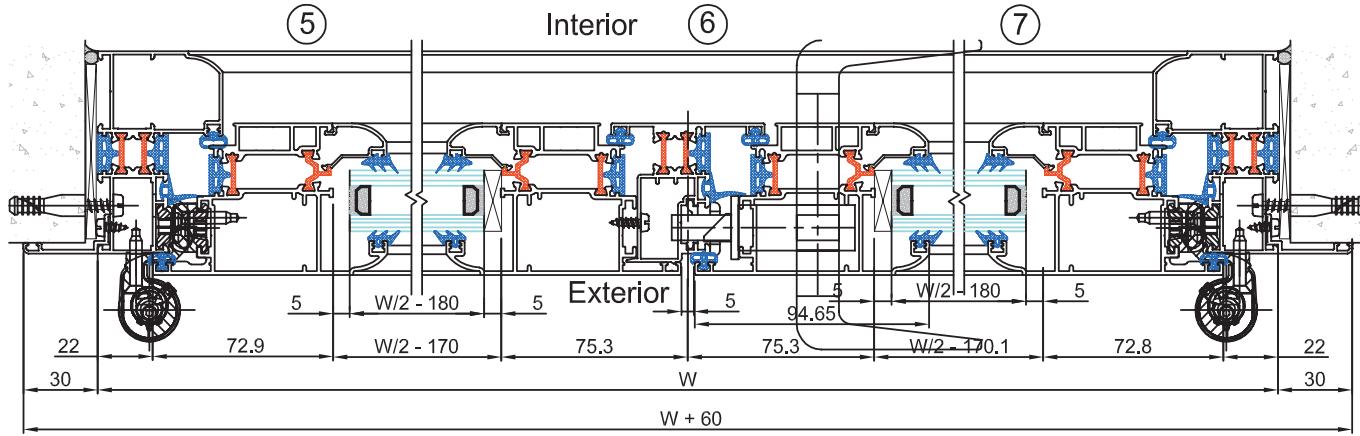
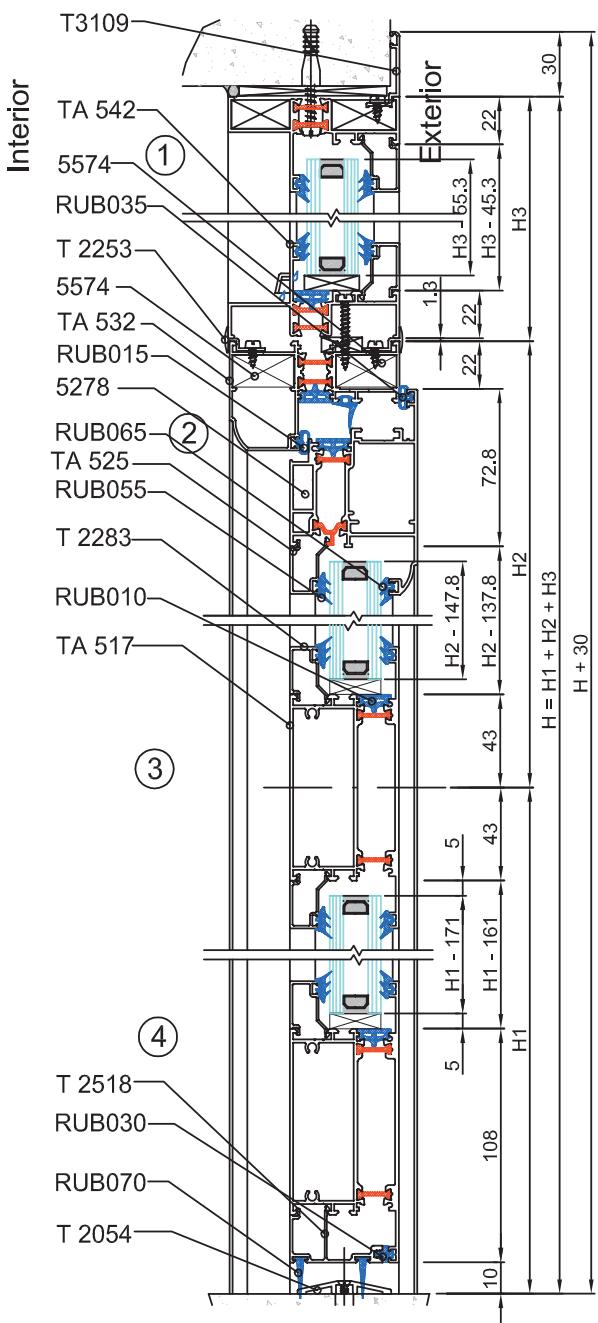
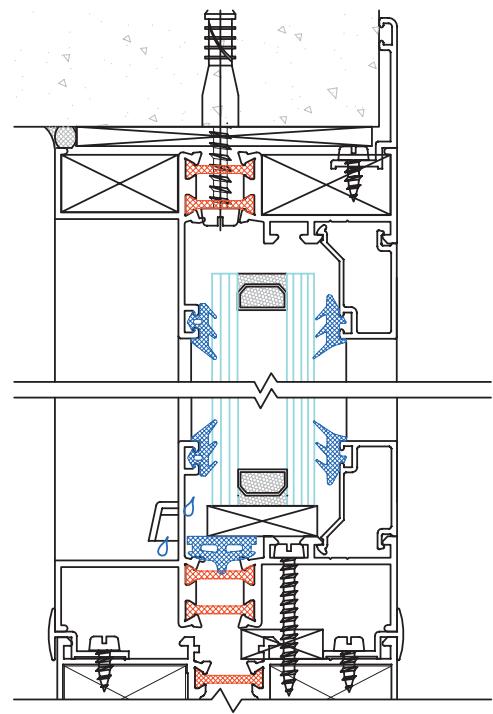
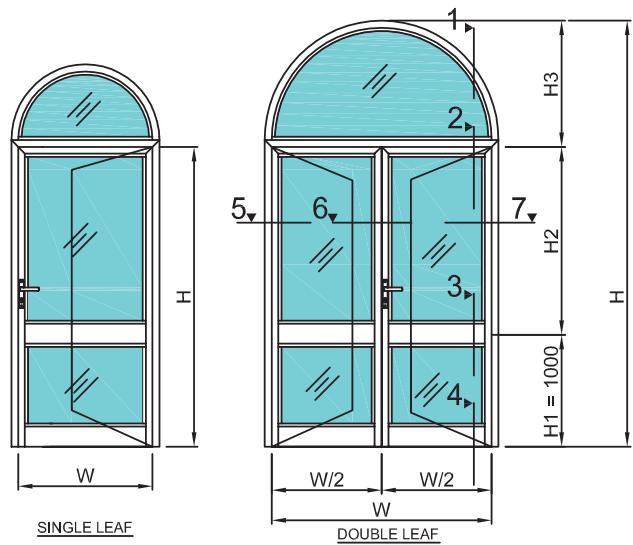
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 532	45°	W	01	FOR SINGLE & DOUBLE D
2.	FRAME HEIGHT	TA 532	45° 1 AS SHOWN 1 AS REVERSE	H	02	FOR SINGLE & DOUBLE D
3.	SASH WIDTH	TA 526	45°		01 02	W - 44 (SINGLE D) W/2 - 24.5(DOUBLE D)
4.	SASH HEIGHT	TA 526	45° 2 AS SHOWN 2 AS REVERSE		02 04	H - 32 (SINGLE D) H - 32 (DOUBLE D)
5.	ADOPTER	TA 518			00 01	(SINGLE D) H - 32 (DOUBLE D)
6.	MIDRAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
7.	BOTTOM RAIL WIDTH	TA 517			01 02	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
8.	BRUSH HOLDER	T 2518			01 02	W - 80 (SINGLE D) W/2 - 54.5 (DOUBLE D)
9.	THRESHOULD	T 2054		W - 57	01	W - 57
10.	GL BEAD WIDTH FOR SASH	T 2283			04 08	W - 189.6 (SINGLE D) W/2 - 170.1 (DOUBLE D)
11.	GL BEAD HEIGHT FOR SASH	T 2282			02 04	H1 - 195 (SINGLE D) H1 - 195 (DOUBLE D)
12.	GL BEAD HEIGHT	T 2282			02 04	H2 - 181.8 (SINGLE D) H2 - 181.8 (DOUBLE D)
13.	CORNER CLEAT FOR FRAME	5574		28.5	04 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
14.	CORNER CLEAT FOR SASH	5575		28.0	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
15.	CORNER CLEAT FOR SASH	5278		8.5	02 04	MILL FINISH (SINGLE D) MILL FINISH (DOUBLE D)
16.	ARCHITRIVE	T 3109	45°	W + 60	01 01	(SINGLE D) (DOUBLE D)
17.	ARCHITRIVE	T 3109	45° 1 AS SHOWN 1 AS REVERSE	H + 30	02 02	(SINGLE D) (DOUBLE D)

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	00598	DOOR HINGES	P. C	02	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W + 2H	1W + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H	1W + 4H
3.	02111	FLUSH BOLT	M. F	-	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	2W + 4H	2W + 8H
4.	00365	ALIGNMENT CORNER		01	04	4.	RUB 025	CENTER GASKET	1W + 2H	1W + 3H
5.	01314	STRICKER LATCH		-	01	5.	RUB 055	INTERNAL GLAZING GASKET	4W + 2H	4W + 8H
6.	2144	BRASS BUSH		-	01	6.	RUB 065	EXTERNAL GLAZING GASKET	4W + 2H	4W + 8H
7.	91135XC	DOMUS LOCK SET		01	01	7.	RUB 070	THRESHOULD GASKET	2W	2W
8.	16075K	DOMUS CYLINDER 74mm		01	01					
9.	90185X	DOMUS STRIKING PLATE		01	01					

OUTWARD OPENING HINGED DOOR WITH TOP FIXLITE

ECO - 500



THERMAL BREAK OUTWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

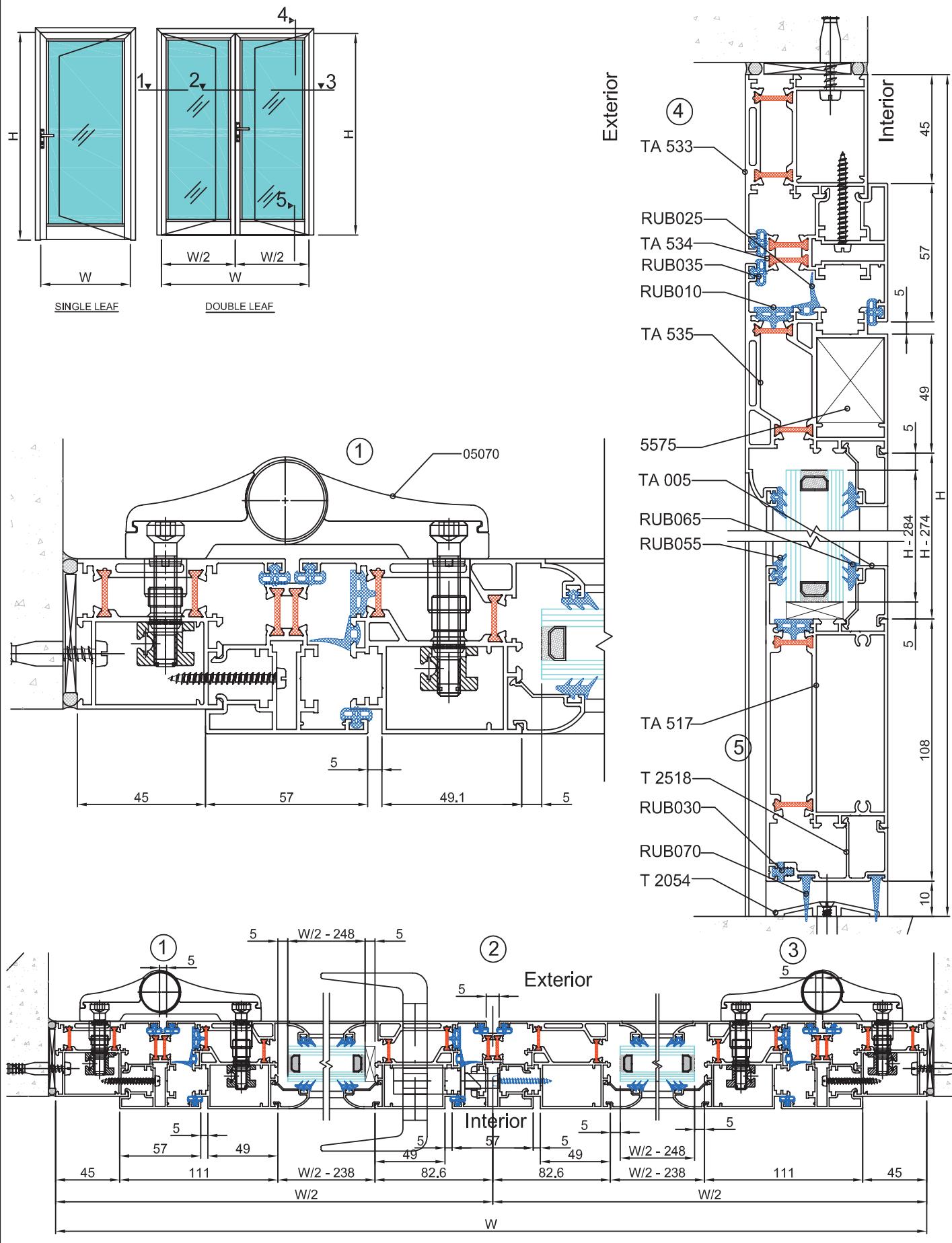
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 532		W	01	FOR SINGLE & DOUBLE D
2.	FRAME HEIGHT	TA 532		H	02	FOR SINGLE & DOUBLE D
3.	SASH WIDTH	TA 526			01	W - 44 (SINGLE D)
					02	W/2 - 24.5(DOUBLE D)
4.	SASH HEIGHT	TA 526			02	H - 32 (SINGLE D)
					04	H - 32 (DOUBLE D)
5.	ADOPTER	TA 518			00	(SINGLE D)
					01	H - 32 (DOUBLE D)
6.	MIDRAIL WIDTH	TA 517			01	W - 189.6 (SINGLE D)
					02	W/2 - 170.1 (DOUBLE D)
7.	BOTTOM RAIL WIDTH	TA 517			01	W - 189.6 (SINGLE D)
					02	W/2 - 170.1 (DOUBLE D)
8.	BRUSH HOLDER	T 2518			01	W - 80 (SINGLE D)
					02	W/2 - 54.5 (DOUBLE D)
9.	THRESHOULD	T 2054		W - 57	01	W - 57
10.	GL BEAD WIDTH FOR SASH	T 2283			04	W - 189.6 (SINGLE D)
					08	W/2 - 170.1 (DOUBLE D)
11.	GL BEAD HEIGHT FOR SASH	T 2282			02	H1 - 195 (SINGLE D)
					04	H1 - 195 (DOUBLE D)
12.	GL BEAD HEIGHT	T 2282			02	H2 - 181.8 (SINGLE D)
					04	H2 - 181.8 (DOUBLE D)
13.	CORNER CLEAT FOR FRAME	5574		28.5	04	MILL FINISH (SINGLE D)
					04	MILL FINISH (DOUBLE D)
14.	CORNER CLEAT FOR SASH	5575		28.0	02	MILL FINISH (SINGLE D)
					04	MILL FINISH (DOUBLE D)
15.	CORNER CLEAT FOR SASH	5278		8.5	02	MILL FINISH (SINGLE D)
					04	MILL FINISH (DOUBLE D)
16.	ARCHITRIVE	T 3109		W + 60	01	(SINGLE D)
					01	(DOUBLE D)
17.	ARCHITRIVE	T 3109		H + 30	02	(SINGLE D)
					02	(DOUBLE D)
18.	FRAME	TA 543		W	01	
19.	FRAME (T4) ARCH	TA 543		(3.14XD)/2	01	(3.14XD)/2
20.	GL BEAD WIDTH FOR SASH	T 2283		W - 57	01	W - 57
21.	GL BEAD WIDTH FOR SASH	T 2283		(3.14XD)/2	01	(3.14XD)/2
22.	ARCHITRIVE	T 3109		(3.14XD)/2	01	(3.14XD)/2
23.	CONNECTOR	T 2253		W	02	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	00598	DOOR HINGES	P. C	02	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W + 2H	1W + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H	1W + 4H
3.	02111	FLUSH BOLT	M. F	-	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	2W + 4H	2W + 8H
4.	00365	ALIGNMENT CORNER		01	04	4.	RUB 025	CENTER GASKET	1W + 2H	1W + 3H
5.	01314	STRICKER LATCH		-	01	5.	RUB 055	INTERNAL GLAZING GASKET	6W + 2H	4W + 8H
6.	2144	BRASS BUSH		-	01	6.	RUB 065	EXTERNAL GLAZING GASKET	6W + 2H	4W + 8H
7.	91135XC	DOMUS LOCK SET		01	01	7.	RUB 070	THRESHOULD GASKET	2W	2W
8.	16075K	DOMUS CYLINDER 74mm		01	01					
9.	90185X	DOMUS STRIKING PLATE		01	01					

HEAVY DUTY OUTWARD OPENING HINGED DOOR

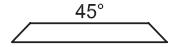
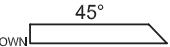
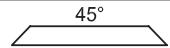
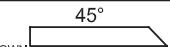
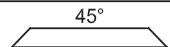
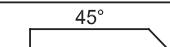
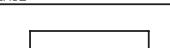
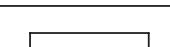
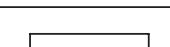
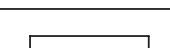
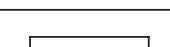
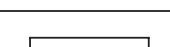
ECO - 500



THERMAL BREAK HEAVY DUTY OUTWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

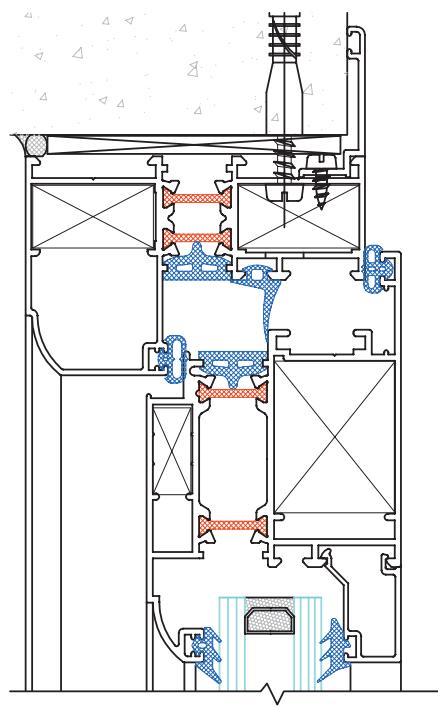
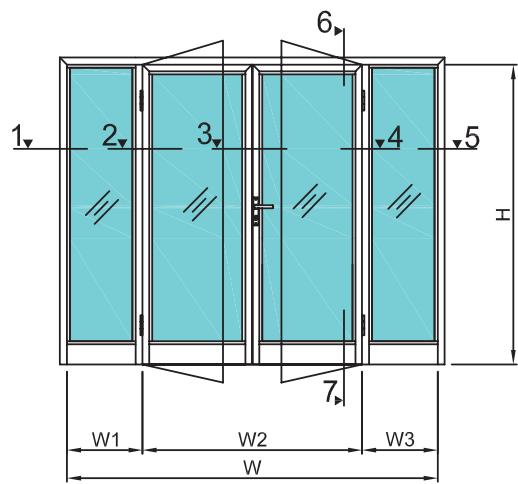
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 533		W	01	FOR SINGLE & DOUBLE D
2.	 FRAME HEIGHT	TA 533		H	02	H, FOR SINGLE & DOUBLE D
3.	 ADOPTER FOR FOR FRAME WIDTH	TA 534		W - 90	01	FOR SINGLE & DOUBLE D
4.	 ADOPTER FOR FOR FRAME HEIGHT	TA 534		H - 45	02	H - 45 FOR SINGLE & DOUBLE D
5.	 SASH WIDTH	TA 535			01	W - 156 (SINGLE D)
					02	W/2 - 80.5 (DOUBLE D)
6.	 SASH HEIGHT	TA 535		H - 88	02	SINGLE D
					04	DOUBLE D
7.	 ADOPTER	TA 534		H - 88	00	SINGLE D
					01	DOUBLE D
8.	 BOTTOM RAIL WIDTH	TA 517			01	W - 312 (SINGLE D)
					02	W/2 - 236.5 (DOUBLE D)
9.	 BRUSH HOLDER	T 2518			01	W - 312 (SINGLE D)
					02	W/2 - 236.5 (DOUBLE D)
10.	 THRESHOULD	T 2054		W - 158	01	W - 158
11.	 GL BEAD WIDTH FOR SASH	T 2283			04	W - 312 (SINGLE D)
					08	W/2 - 236.5 (DOUBLE D)
12.	 GL BEAD HEIGHT FOR SASH	T 2282		H - 318	02	H - 318 (SINGLE D)
					04	H - 318 (DOUBLE D)
13.	 CORNER CLEAT FOR SASH	5575		28.5	04	MILL FINISH (SINGLE D)
					06	MILL FINISH (DOUBLE D)

ACCESSORIES LIST

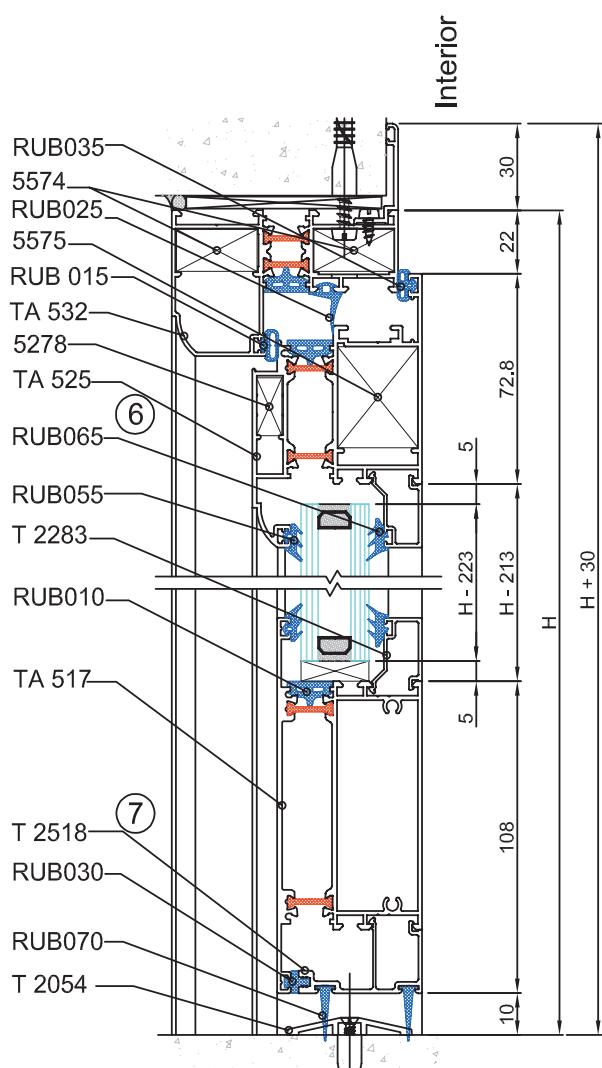
ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	2472	DOOR LIVER HANDLE	P. C	01	01	1.	RUB 035	IMPACT GASKET INTERNAL	3W + 6H	3W + 9H
2.	02111	FLUSH BOLT	M. F	-	2 SET	2.	RUB 010	THERMAL BARRIER GASKET	2W + 2H	2W + 3H
3.	00365	ALIGNMENT CORNER	M. F	01	04	3.	RUB 025	CENTER GASKET	1W + 2H	1W + 3H
4.	01314	STRICKER LATCH	M. F	-	01	4.	RUB 055	INTERNAL GLAZING GASKET	2W + 2H	2W + 4H
5.	2144	BRASS BUSH	M. F	-	01	5.	RUB 065	EXTERNAL GLAZING GASKET	2W + 2H	2W + 4H
6.	91135XC	DOMUS LOCK SET	M. F	01	01	6.	RUB 070	THRESHOULD GASKET	2W	2W
7.	16075K	DOMUS CYLINDER 74mm	M. F	01	01	7.	RUB 030	THERMAL BREAK GASKET	1W	1W
8.	90185X	DOMUS STRIKING PLATE	M. F	01	01					
9.	03239	SPACER FOR DOMINO HINGE	P. C	04	08					
10.	03240	SPACER FOR DOMINO HINGE	P. C	04	08					
11.	05070	DOMINO DOOR HINGE HP C/C 99mm FLAT	P. C	02	04					

INWARD OPENING HINGED DOOR WITH PARTITIONS (SHOP FRONTS)

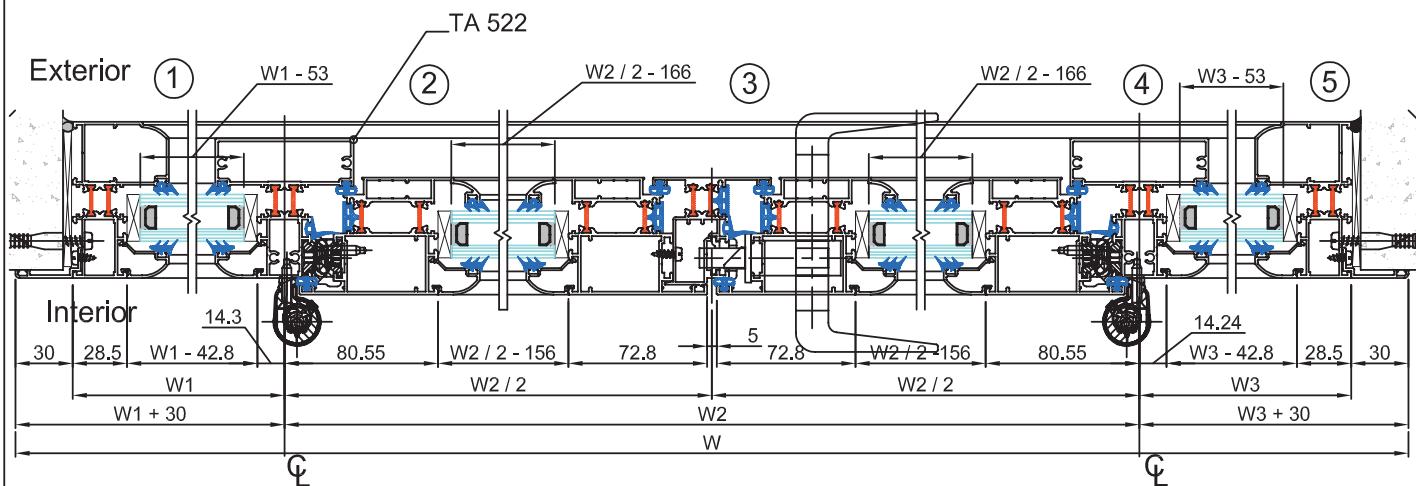
ECO - 500



Exterior



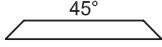
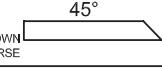
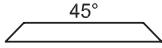
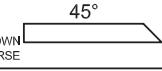
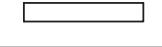
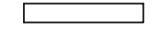
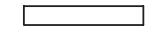
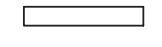
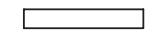
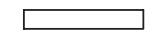
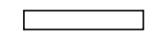
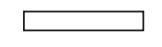
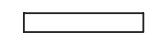
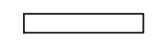
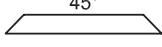
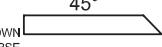
Interior



THERMAL BREAK INWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

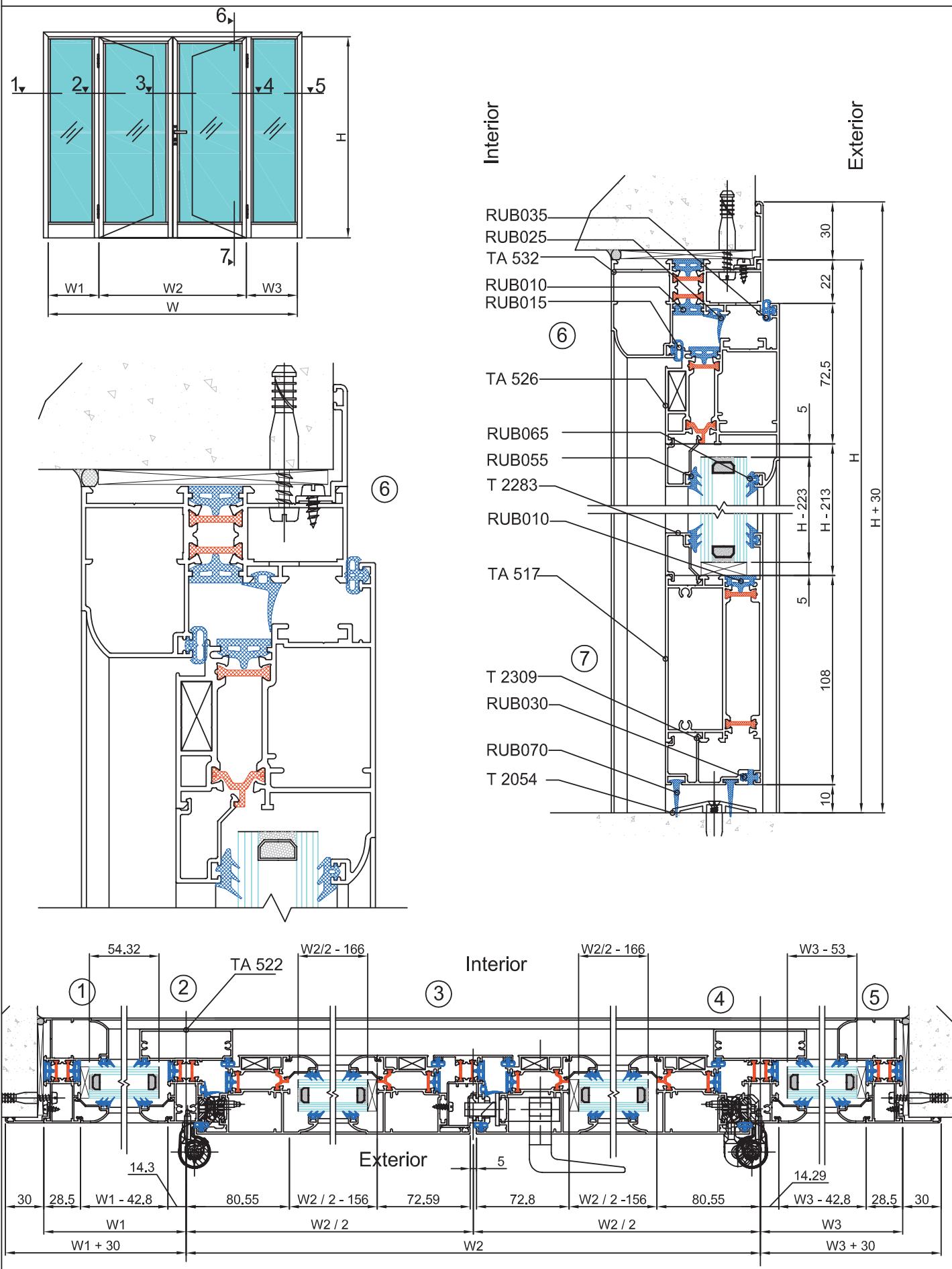
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 532		W	01	DOOR
2.	 FRAME HEIGHT	TA 532		H	02	DOOR
3.	 SASH WIDTH	TA 525		W2/2 - 10	04	W2/2 - 10
4.	 SASH HEIGHT	TA 525		H - 32	04	H - 32
5.	 ADOPTER	TA 518		H - 32	01	H - 32
6.	 MULLION	TA 522		H - 28.5	02	H - 28.5
7.	 BOTTOM RAIL WIDTH	TA 517		W2/2 - 156	02	W2/2 - 156
8.	 BOTTOM RAIL WIDTH	TA 517		W1 - 42.75 W3 - 42.75	02	W1 - 42.75 W3 - 42.75
9.	 BRUSH HOLDER FOR SASH	T 2518		W2/2 - 156	02	W2/2 - 156
10.	 BRUSH HOLDER FOR FIXLITE	T 2518		W1 - 42.75 W3 - 42.75	02	W1 - 42.75 W3 - 42.75
11.	 THRESHOULD	T 2054		W2/2 - 28.5	01	W2/2 - 28.5
12.	 GL BEAD WIDTH FOR SASH	T 2283		W2/2 - 156	04	W2/2 - 156
13.	 GL BEAD WIDTH FOR FIXLITE	T 2283		W1 - 42.75 W3 - 42.75	04	W1 - 42.75 W3 - 42.75
14.	 GL BEAD HEIGHT FOR SASH	T 2282		H - 223	04	H - 223
15.	 GL BEAD HEIGHT FOR FIXLITE	T 2282		H - 257	04	H - 257
16.	 CORNER CLEAT FOR FRAME	5574		28.5	04	MILL FINISH
17.	 CORNER CLEAT FOR SASH	5575		28.0	04	MILL FINISH
18.	 CORNER CLEAT FOR SASH	2496		8.5	04	MILL FINISH
19.	 ARCHITRIVE	T 3109		W + 60	01	
20.	 ARCHITRIVE	T 3109		H + 30	02	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY	ITEM No.	GASKET CODE No.	DESCRIPTION	QTY
1.	00598	DOOR HINGES	P. C	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W2 + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H
3.	02111	FLUSH BOLT	M. F	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	1W + 9H
4.	00365	ALIGNMENT CORNER	M. F	04	4.	RUB 025	CENTER GASKET	1W + 2H
5.	01314	STRICKER LATCH	M. F	01	5.	RUB 055	INTERNAL GLAZING GASKET	2W + 8H
6.	2144	BRASS BUSH	M. F	01	6.	RUB 065	EXTERNAL GLAZING GASKET	2W + 8H
7.	91135XC	DOMUS LOCK SET	M. F	01	7.	RUB 070	THRESHOULD GASKET	W2/2 + 2H
8.	16075K	DOMUS CYLINDER 74mm	M. F	01				
9.	90185X	DOMUS STRIKING PLATE	M. F	01				

OUTWARD OPENING HINGED DOOR WITH PARTITIONS (SHOP FRONTS)

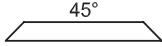
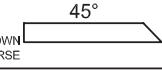
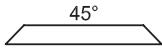
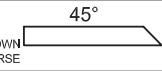
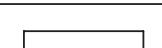
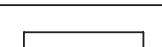
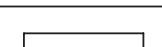
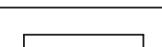
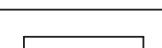
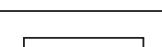
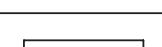
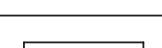
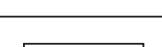
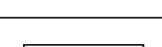
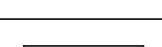
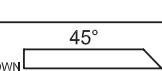
ECO - 500



THERMAL BREAK OUTWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

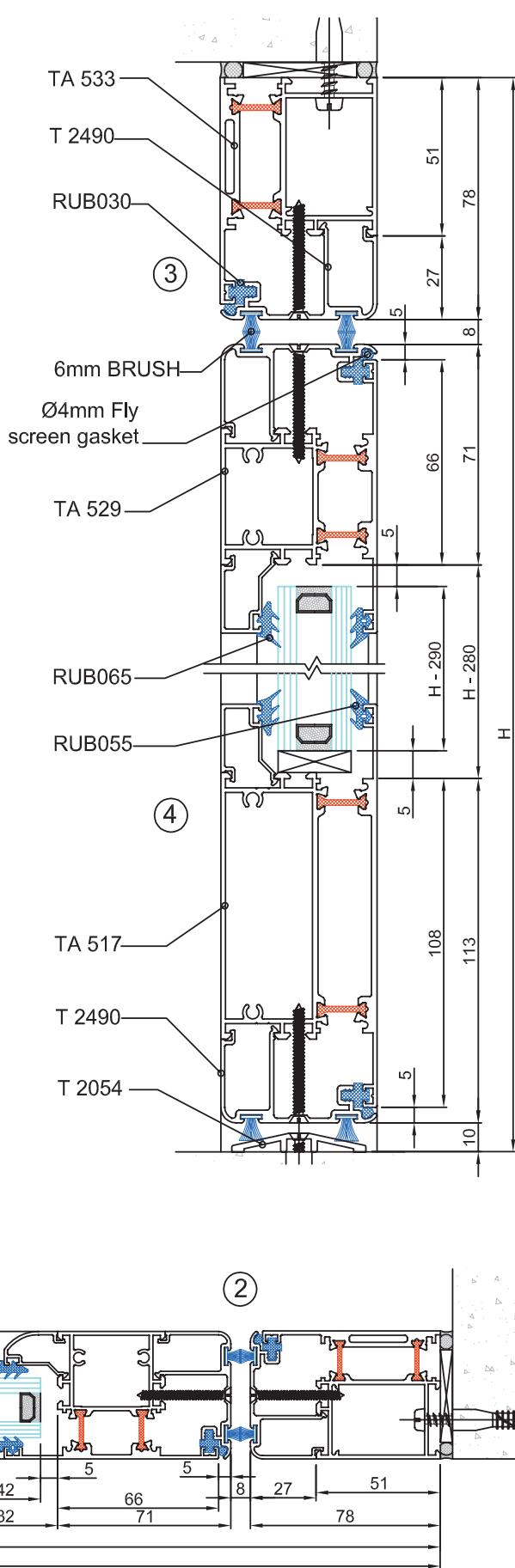
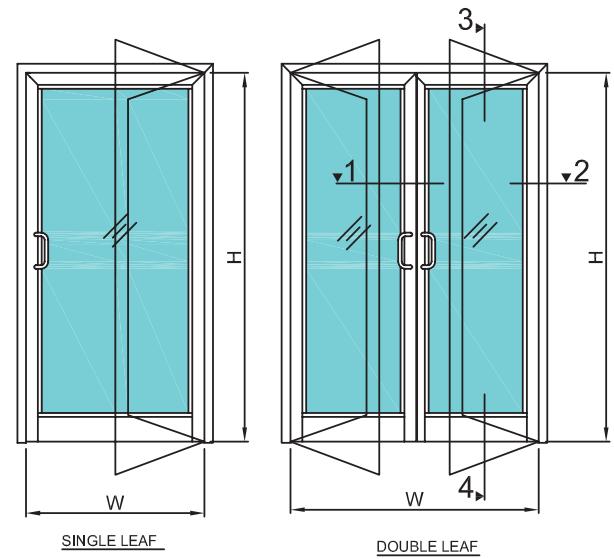
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	 FRAME WIDTH	TA 532		W	01	DOOR
2.	 FRAME HEIGHT	TA 532		H	02	DOOR
3.	 SASH WIDTH	TA 526		W2/2 - 10	04	W2/2 - 10
4.	 SASH HEIGHT	TA 526		H - 32	04	H - 32
5.	 ADOPTER	TA 518		H - 32	01	H - 32
6.	 MULLION	TA 522		H - 28.5	02	H - 28.5
7.	 BOTTOM RAIL WIDTH	TA 517		W2/2 - 156	02	W2/2 - 156
8.	 BOTTOM RAIL WIDTH	TA 517		W1 - 42.75 W3 - 42.75	02	W1 - 42.75 W3 - 42.75
9.	 BRUSH HOLDER FOR SASH	T 2518		W2/2 - 156	02	W2/2 - 156
10.	 BRUSH HOLDER FOR FIXLITE	T 2518		W1 - 42.75 W3 - 42.75	02	W1 - 42.75 W3 - 42.75
11.	 THRESHOULD	T 2054		W2/2 - 28.5	01	W2/2 - 28.5
12.	 GL BEAD WIDTH FOR SASH	T 2283		W2/2 - 156	04	W2/2 - 156
13.	 GL BEAD WIDTH FOR FIXLITE	T 2283		W1 - 42.75 W3 - 42.75	04	W1 - 42.75 W3 - 42.75
14.	 GL BEAD HEIGHT FOR SASH	T 2282		H - 223	04	H - 223
15.	 GL BEAD HEIGHT FOR FIXLITE	T 2282		H - 257	04	H - 257
16.	 CORNER CLEAT FOR FRAME	5574		28.5	04	MILL FINISH
17.	 CORNER CLEAT FOR SASH	5575		28.0	04	MILL FINISH
18.	 CORNER CLEAT FOR SASH	2496		8.5	04	MILL FINISH
19.	 ARCHITRAVE	T 3109		W + 60	01	
20.	 ARCHITRAVE	T 3109		H + 30	02	

ACCESSORIES LIST

ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	QTY	ITEM No.	GASKET CODE No.	DESCRIPTION	QTY
1.	00598	DOOR HINGES	P. C	04	1.	RUB 035	IMPACT GASKET INTERNAL	1W2 + 4H
2.	2472	DOOR LIVER HANDLE	P. C	01	2.	RUB 035	IMPACT GASKET EXTERNAL	1W + 2H
3.	02111	FLUSH BOLT	M. F	2 SET	3.	RUB 010	THERMAL BARRIER GASKET	1W + 9H
4.	00365	ALIGNMENT CORNER	M. F	04	4.	RUB 025	CENTER GASKET	1W + 2H
5.	01314	STRICKER LATCH	M. F	01	5.	RUB 055	INTERNAL GLAZING GASKET	2W + 8H
6.	2144	BRASS BUSH	M. F	01	6.	RUB 065	EXTERNAL GLAZING GASKET	2W + 8H
7.	91135XC	DOMUS LOCK SET	M. F	01	7.	RUB 070	THRESHOULD GASKET	W2/2 + 2H
8.	16075K	DOMUS CYLINDER 74mm	M. F	01				
9.	90185X	DOMUS STRIKING PLATE	M. F	01				

CASEMENT THERMAL BREAK SWING DOOR

ECO - 500



THERMAL BREAK INWARD OPENING HINGED DOOR

ECO - 500

PROFILE CUTTING LIST

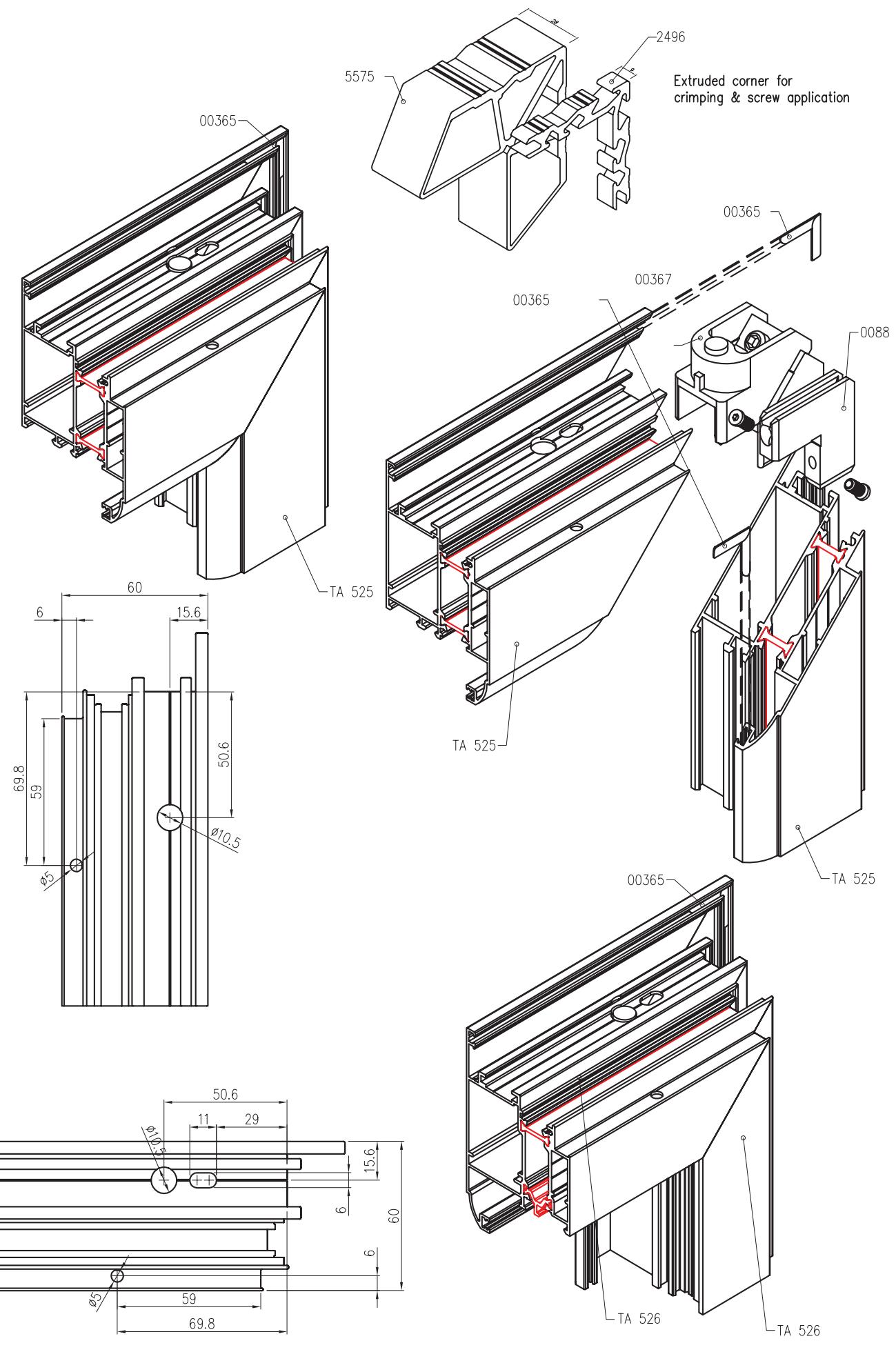
ITEM No.	DESCRIPTION & SECTION SHAPE	PROFILE No.	PROFILE CUTTING ANGLE	CUTTING SIZE	No. OF PIECES	REMARKS
1.	FRAME WIDTH	TA 533	45°	W	01	FOR SINGLE & DOUBLE D
2.	FRAME HEIGHT	TA 533	45° 1 AS SHOWN 1 AS REVERSE	H	02	FOR SINGLE & DOUBLE D
3.	SASH WIDTH	TA 529	45°	W	01	W - 182 (SINGLE D)
4.	SASH HEIGHT		45° 2 AS SHOWN 2 AS REVERSE		02	H - 106 (SINGLE D)
4.	SASH HEIGHT	TA 529	45° 2 AS SHOWN 2 AS REVERSE	H - 106	04	H - 106 (DOUBLE D)
5.	BOTTOM RAIL WIDTH		45°		W	01
5.	BOTTOM RAIL WIDTH	TA 517	45°	W	02	W/2 - 232 (DOUBLE D)
6.	ADOPTER FOR FRAME WIDTH		45°		01	CLIP WITH FRAME BEFORE CUTTING
7.	ADOPTER FOR FRAME HEIGHT	T 2490	45°	H - 46	02	CLIP WITH FRAME BEFORE CUTTING
8.	ADOPTER FOR SASH WIDTH	T 2490	45°	W/2	02	W - 172 (SINGLE D)
8.	ADOPTER FOR SASH HEIGHT		45°		04	W/2 - 90 (DOUBLE D)
9.	ADOPTER FOR SASH HEIGHT	T 2490	45°	H - 96	02	SINGLE D
9.	ADOPTER FOR SASH HEIGHT		45°		04	DOUBLE D
10.	GL BEAD WIDTH FOR SASH	T 2283	45°	W	02	W - 314 (SINGLE D)
10.	GL BEAD HEIGHT FOR SASH		45°		04	W/2 - 232 (DOUBLE D)
11.	GL BEAD HEIGHT FOR SASH	T 2282	45°	H - 324	02	H - 324 (SINGLE D)
11.	GL BEAD HEIGHT FOR SASH		45°		04	H - 324 (DOUBLE D)
12.	CORNER CLEAT FOR FRAME	5575	45°	28.0	02	MILL FINISH
13.	CORNER CLEAT FOR SASH	5150	45°	28.5	02	MILL FINISH
13.	CORNER CLEAT FOR SASH		45°		04	MILL FINISH

ACCESSORIES LIST

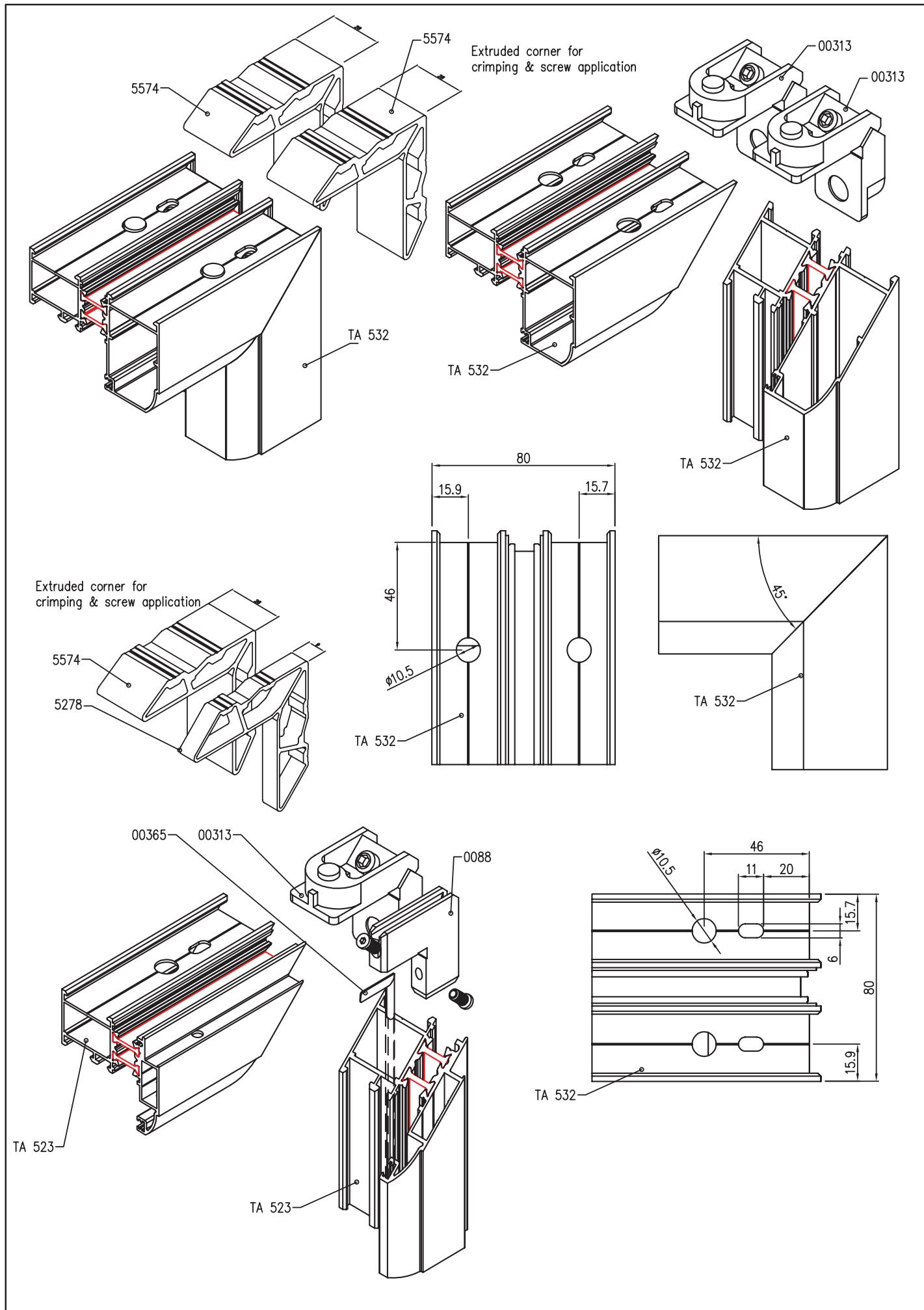
ITEM No.	ACCESSORY CODE No.	DESCRIPTION	FINISH	SINGLE LEAF	DOUBLE LEAF	ITEM No.	GASKET CODE No.	DESCRIPTION	SINGLE LEAF	DOUBLE LEAF
1.	2604	DOUBLE BEND HANDLE	P. C	01	02	1.	RUB 065	INNER GASKET	2W + 2H	2W + 4H
2.	2668	KIT FOR HANDLE	M. F	01 SET	02 SET	2.	PB.69-600-3P	WEATHER SEAL PILE	4W + 8H	4W + 12H
3.	02111	FLUSH BOLT	M. F	-	01 SET	3.	RUB 030	THERMAL BREAK GASKET	1W	1W
4.	16075K	DOMUS CYLINDER 74mm		01	01	4.	RUB 075	Ø4mm GASKET	1W	1W
5.	90185X	DOMUS STRIKING PLATE		01	01					
6.	92135XT	DOMUS ROLLER LOCKSET	P. C	01 SET	01 SET					
7.	BTS 75V	DORMA FLOOR SPRING COVER PIVOTS COMPLETE SET	P. C	01 SET	02 SET					

NOTE: ADOPTER SECTION T2490 TO BE CLIP WITH FRAME AND SASH BEFORE CUTTING.

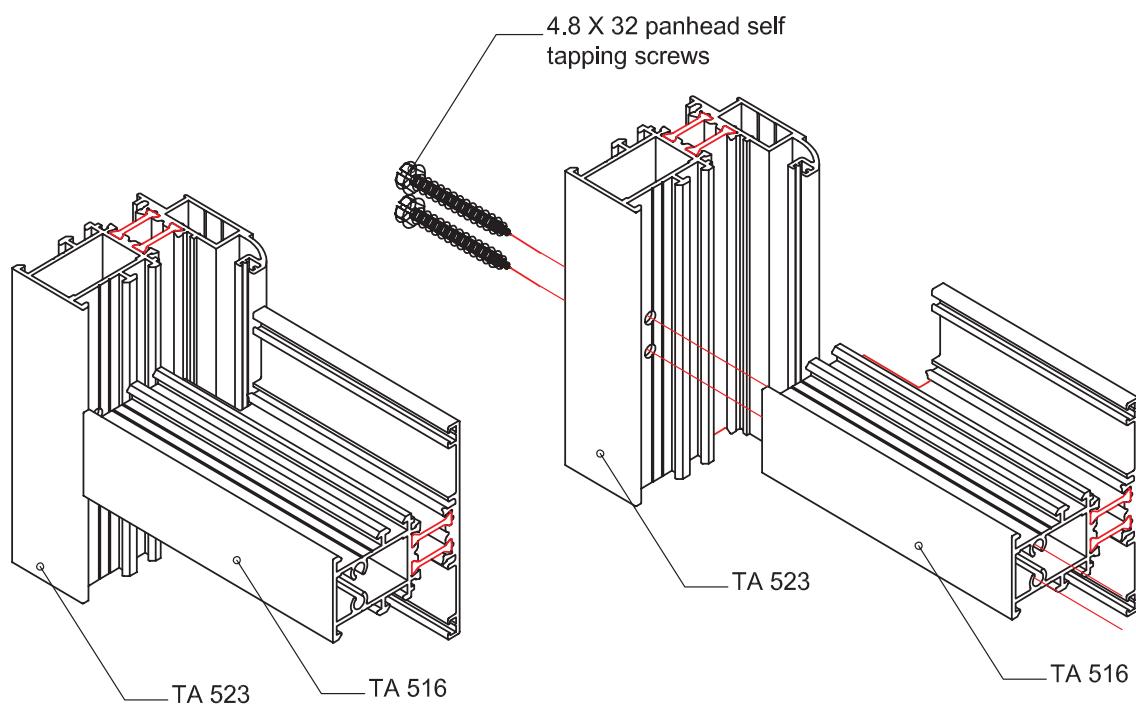
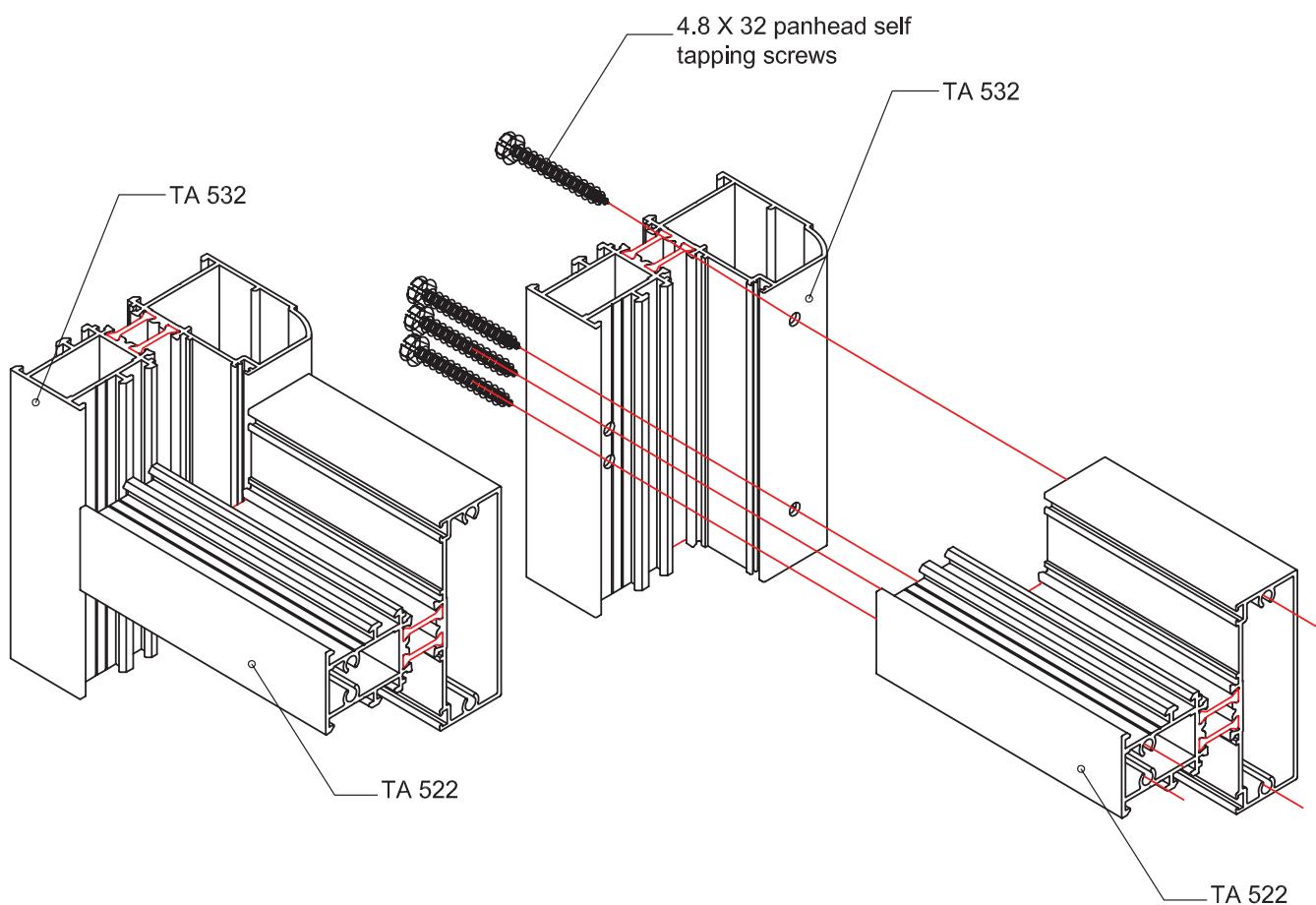
3D Assembly Drawing



3D Assembly Drawing



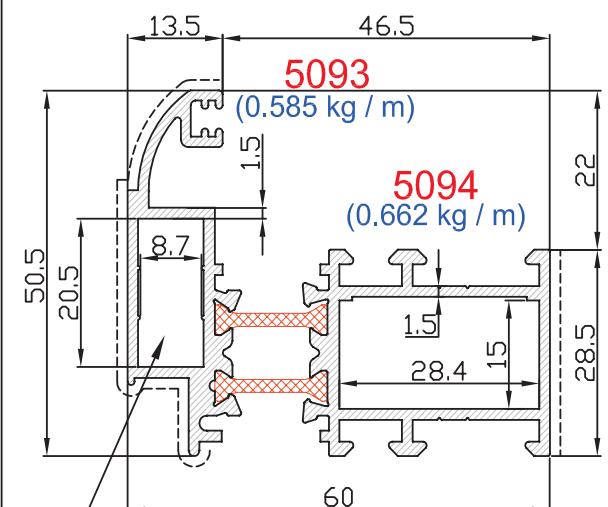
3D Assembly Drawing



CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

ECO - 500

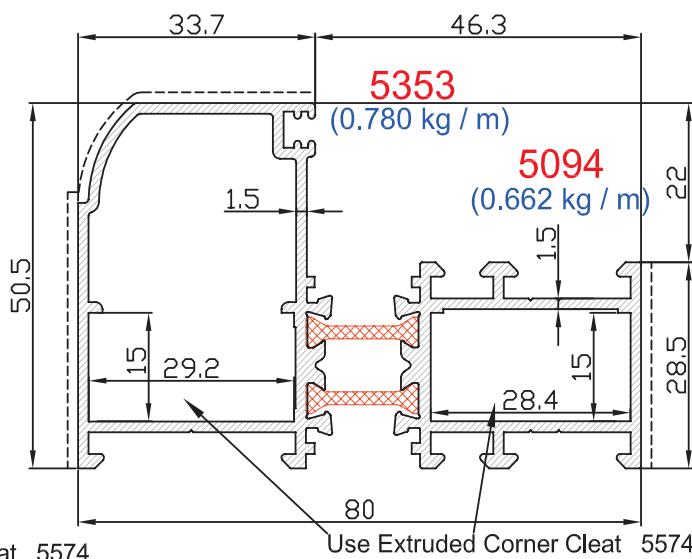
Window frame



Use Extruded Corner Cleat 5278
or
0088 Corner Cleat

TA 523
1.342 kg/m

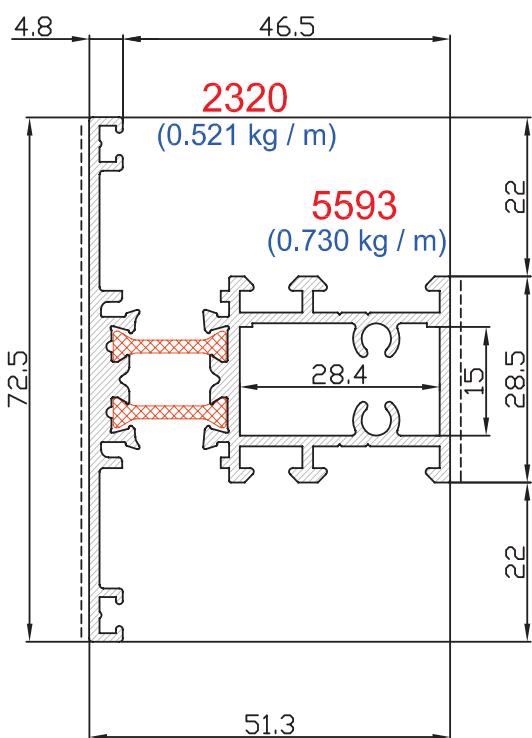
Window/door frame



Use Extruded Corner Cleat 5574
or
00313 Corner Cleat

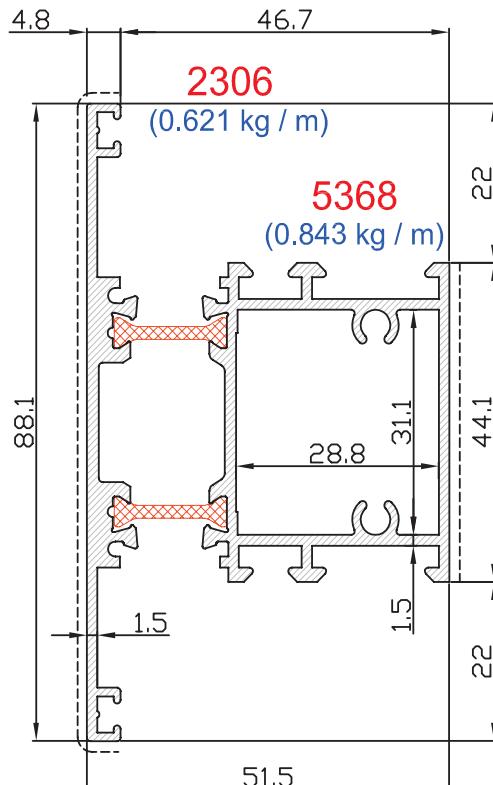
TA 532
1.537 kg/m

Small T-section



TA 516
1.346 kg/m

Medium T-section



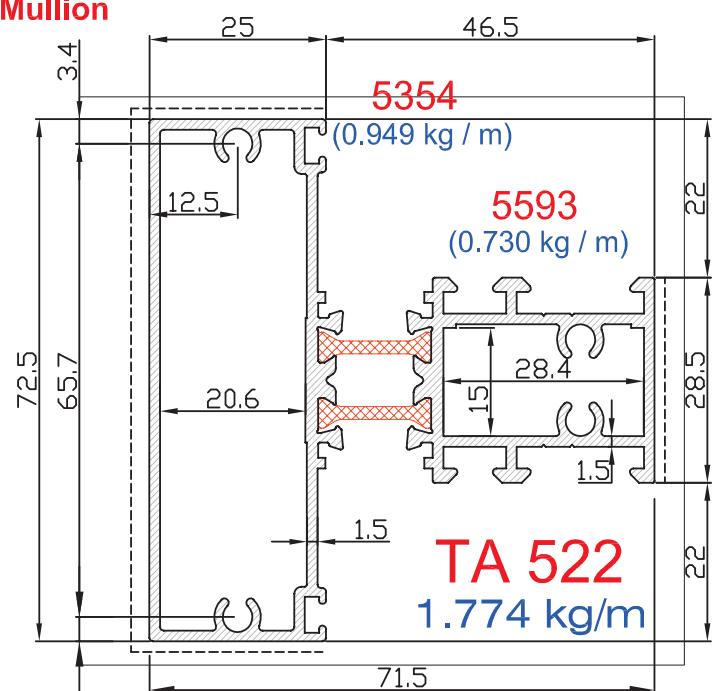
TA 529
1.559 kg/m

CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

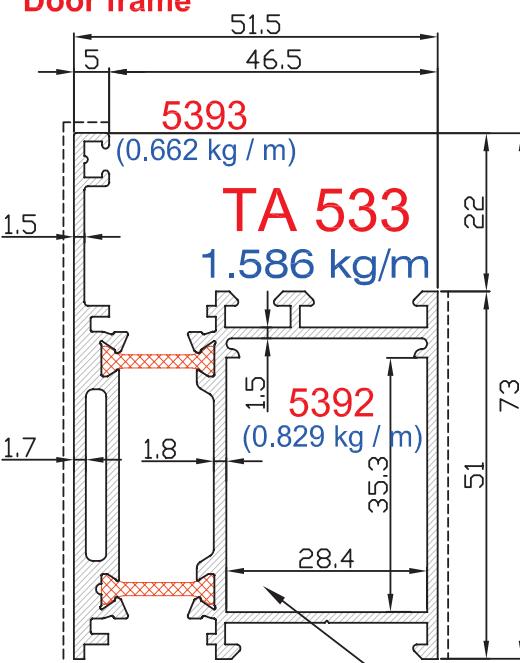
ECO - 500

Sections (Profiles) Drawings

Mullion

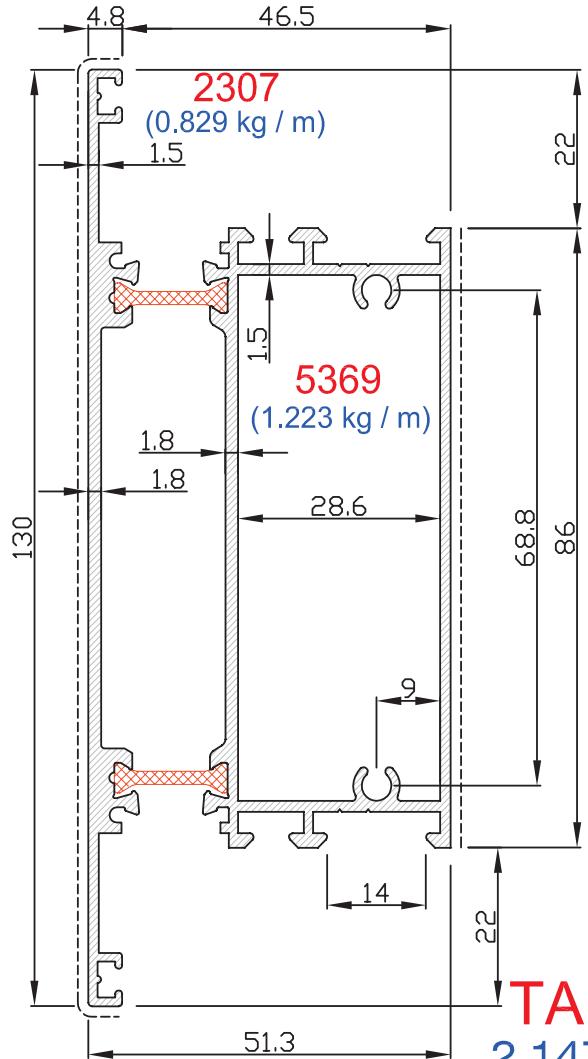


Door frame

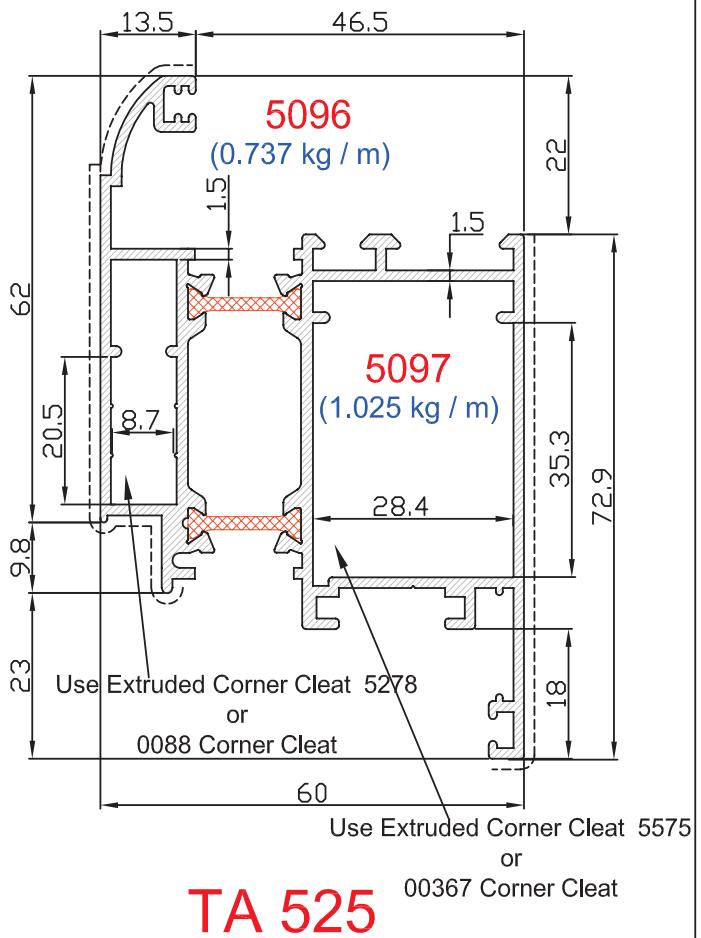


Use Extruded Corner Cleat 5575
or
00367 Corner Cleat

Mid Rail / Bottom Kick Plate



Door shutter inward opening



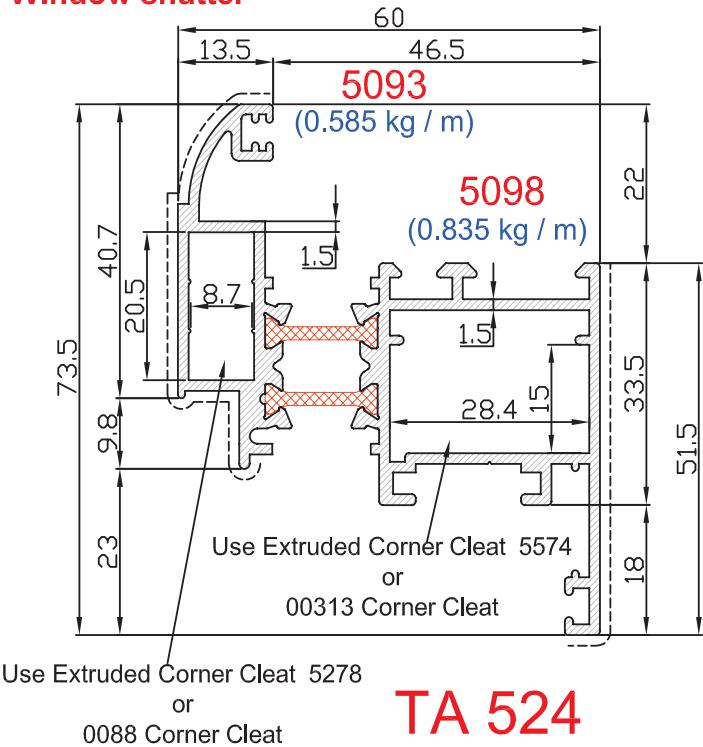
Use Extruded Corner Cleat 5278
or
0088 Corner Cleat

Use Extruded Corner Cleat 5575
or
00367 Corner Cleat

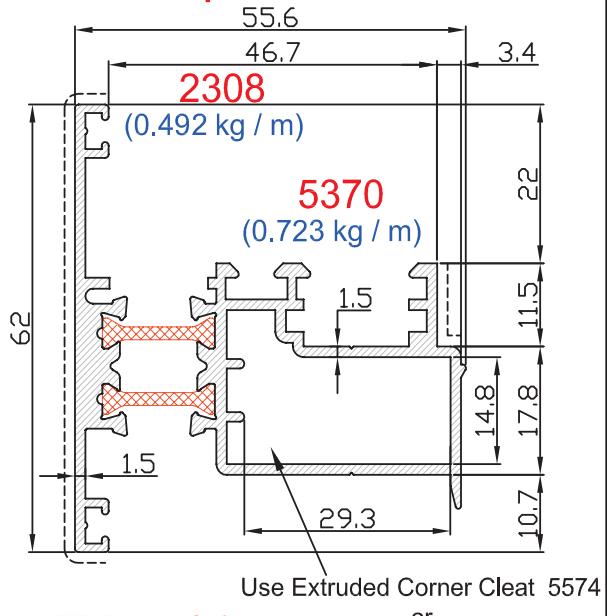
CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

ECO - 500

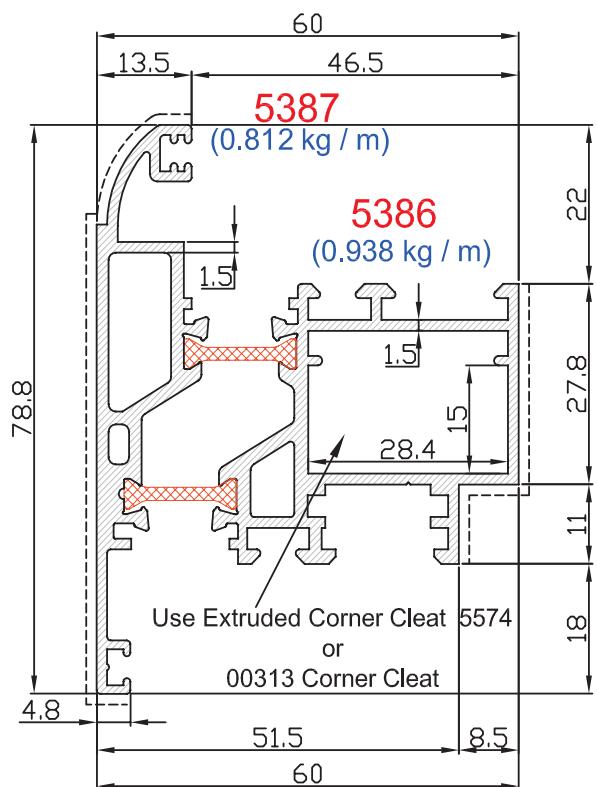
Window shutter



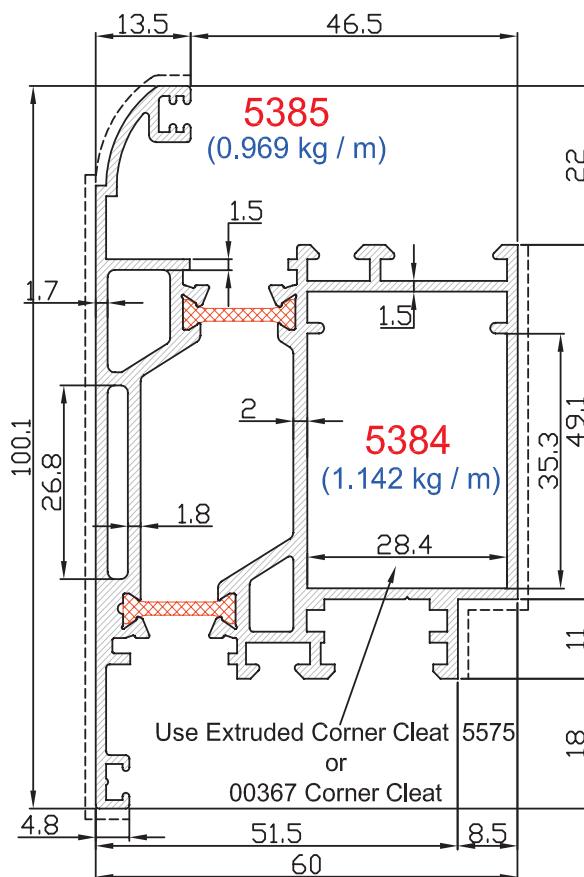
Double shutter adaptor



Window shutter outward openable



Door shutter outward openable

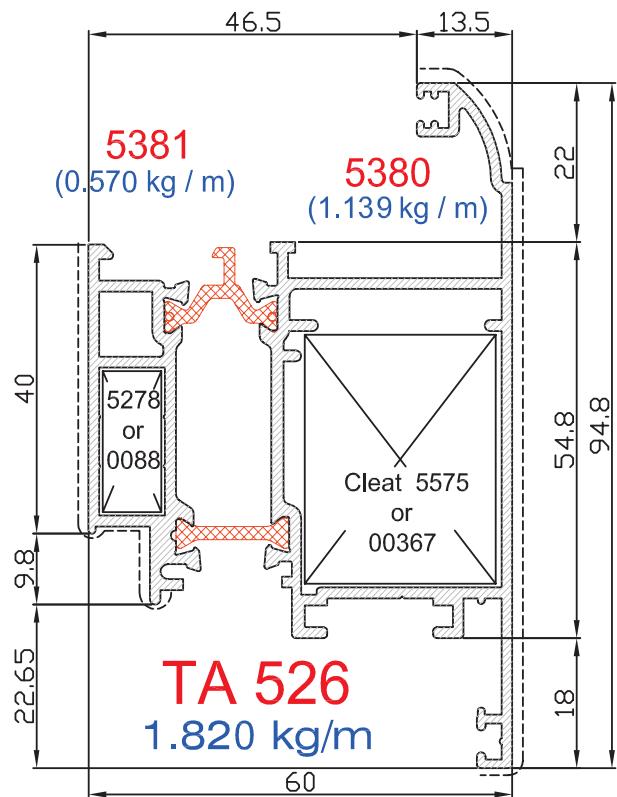


CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

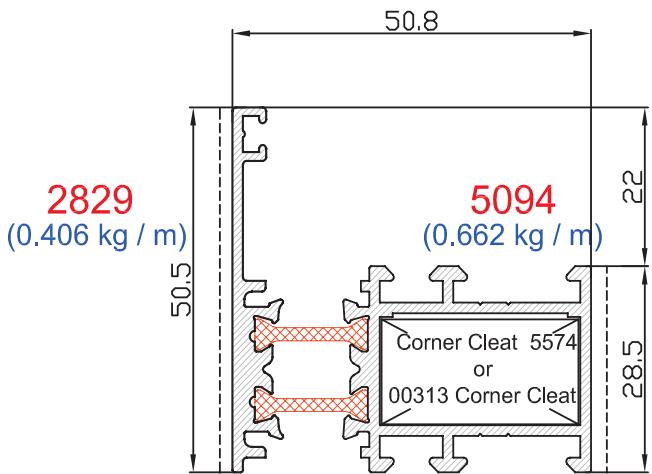
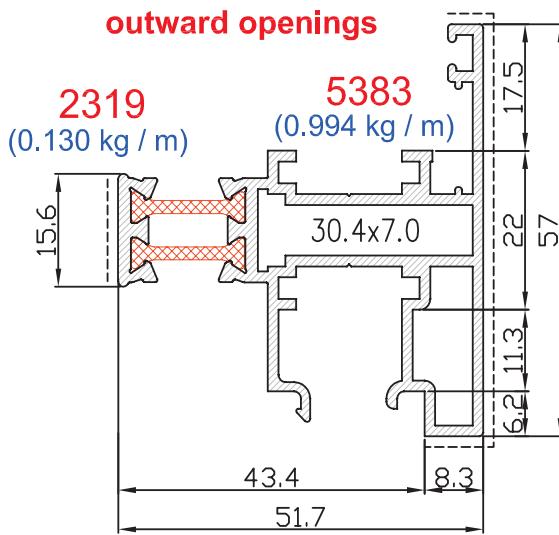
ECO - 500

Sections (Profiles) Drawings

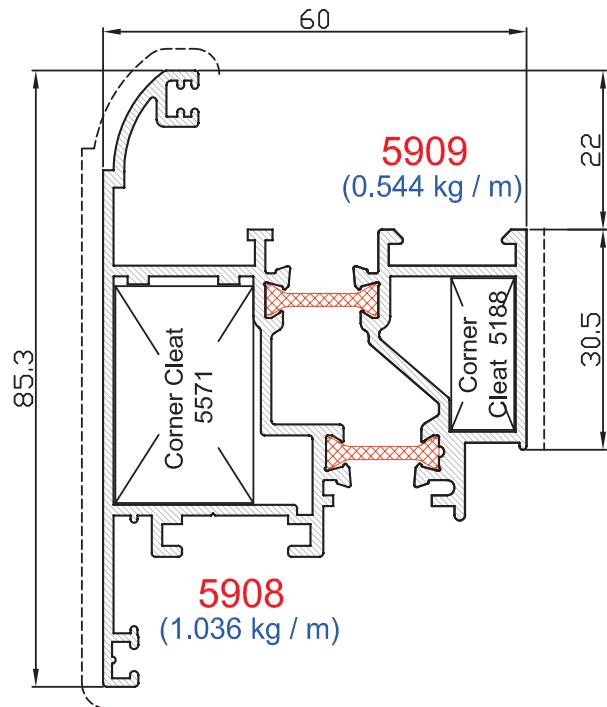
Door shutter outward openable



Frame converter for outward openings



Window Frame Outward Openable

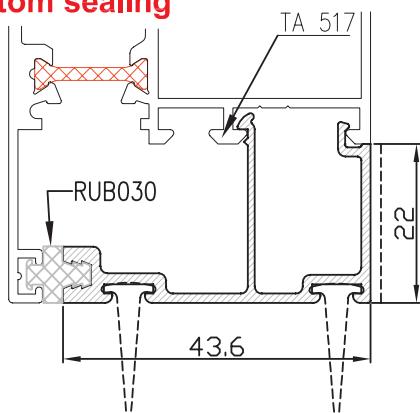


Window Shutter Outward Openable

CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

ECO - 500

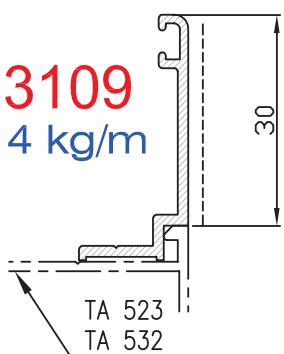
Bottom sealing



T 2518
0.424 kg/m

Architrive

T 3109
0.214 kg/m

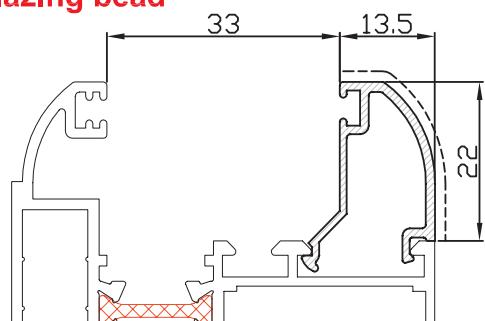


Decorated architrive

T 2254
0.335 kg/m



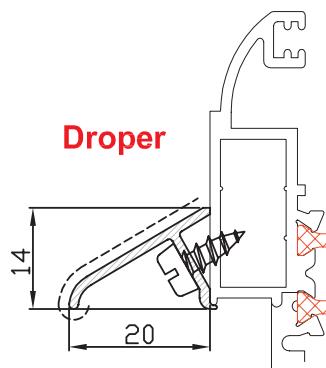
Glazing bead



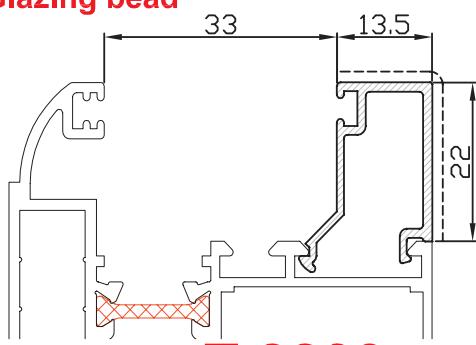
T 2282
0.218 kg/m

Droper

T 2281
0.127 kg/m



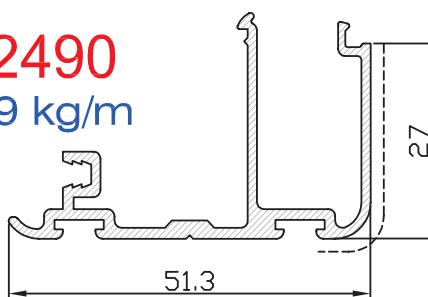
Glazing bead



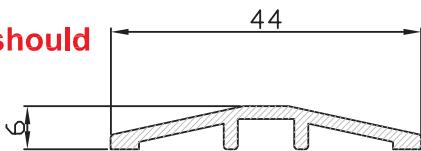
T 2283
0.235 kg/m

Adapter for swing door

T 2490
0.559 kg/m

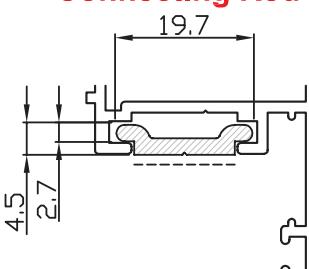


Threshold



T 2054
(0.270 kg / m)

Connecting Rod

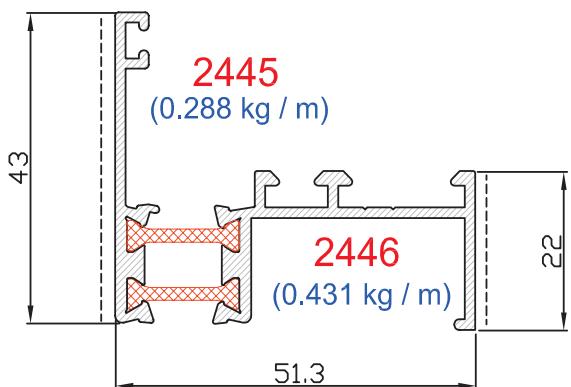


T 2310
0.132 kg/m

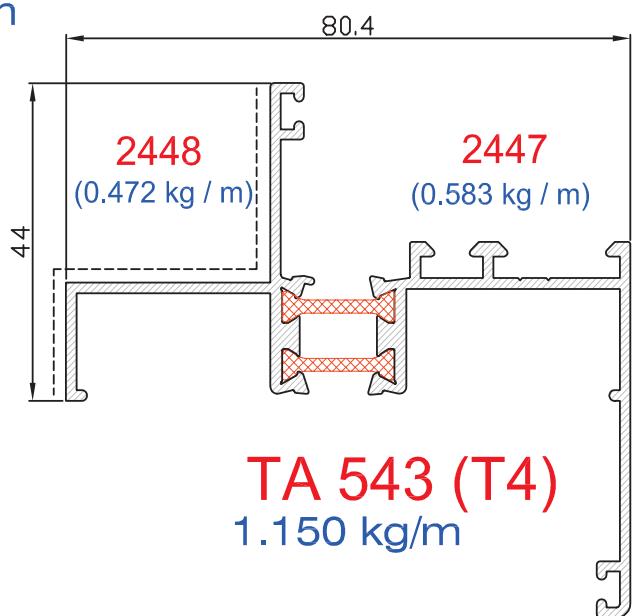
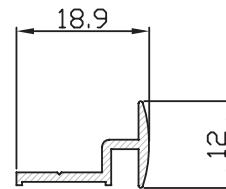
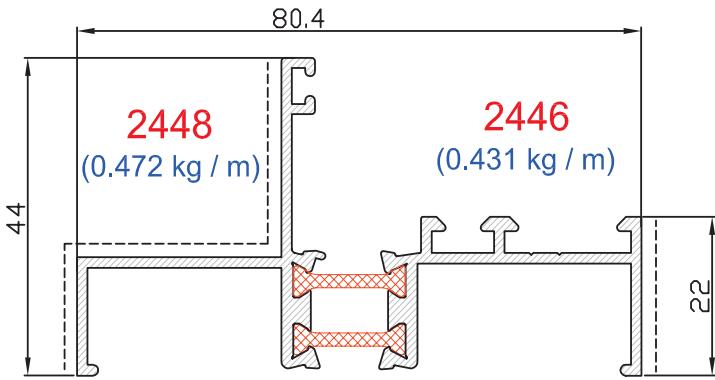
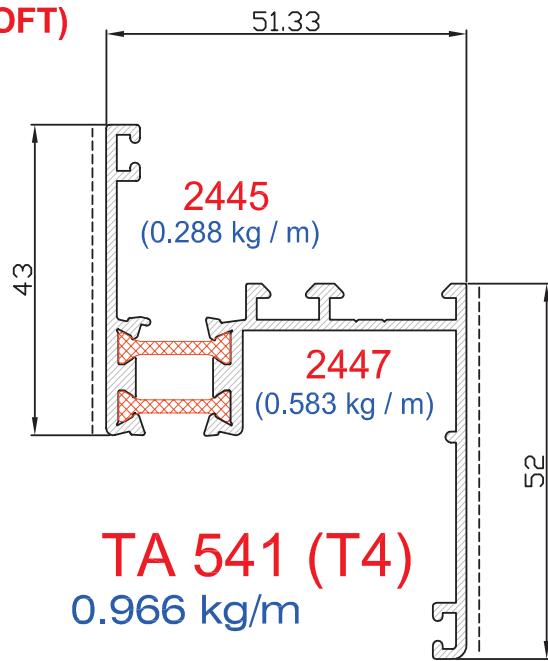
CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

ECO - 500

SECTIONS FOR BENDING APPLICATION (T4 SOFT)



TA 540 (T4)
0.814 kg/m

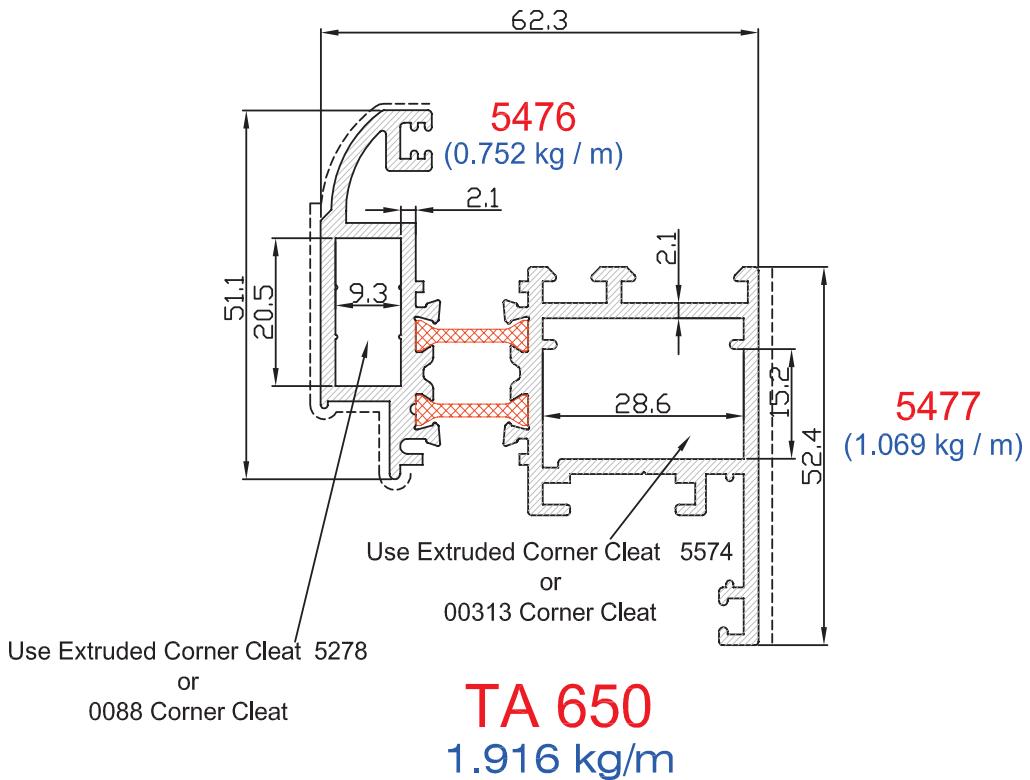


CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

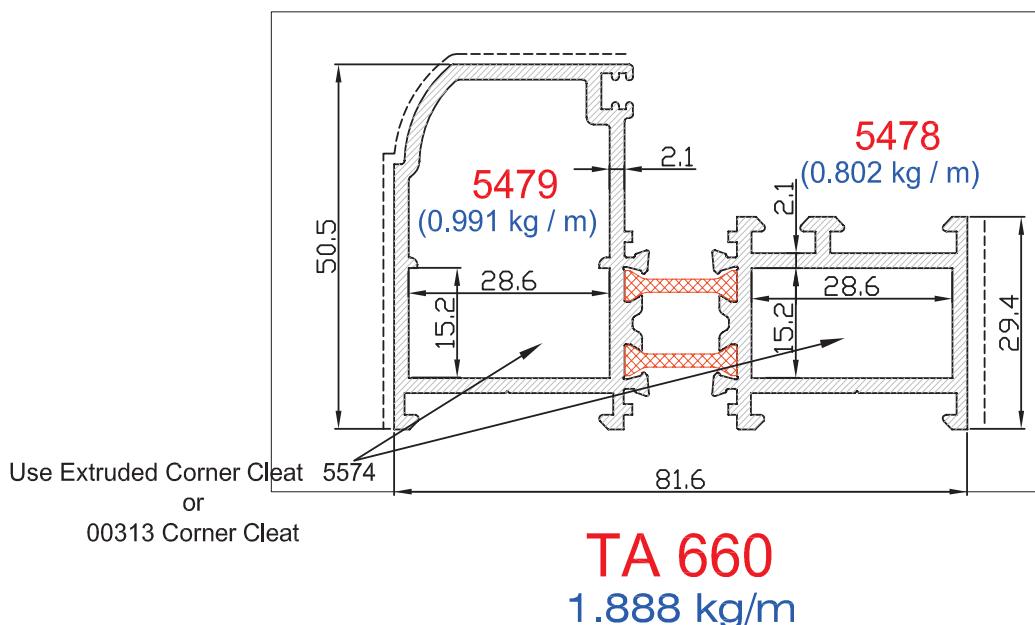
ECO - 500

HEAVY DUTY PROFILES (2.1mm THICK)

Window shutter

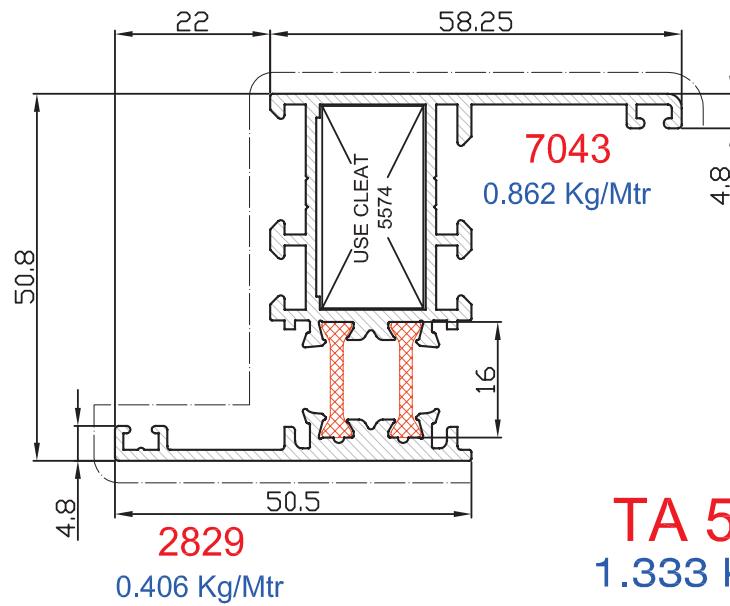


Window frame

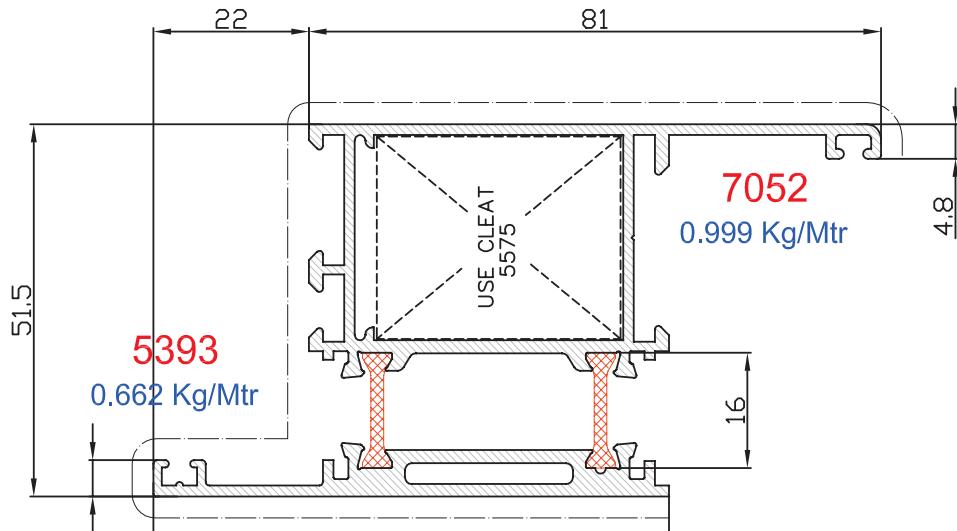


**CASEMENT THERMAL BREAK
HINGED WINDOWS AND DOORS SECTIONS**

ECO - 500



TA 546
1.333 Kg/m



TA 547
1.756 Kg/m

CASEMENT THERMAL BREAK HINGED WINDOWS AND DOORS SECTIONS

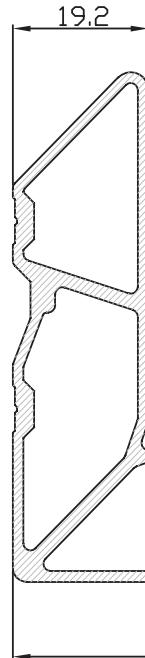
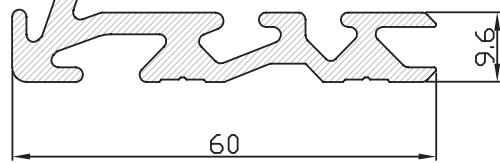
ECO - 500



Corner cleat

2496

(1.610 kg / m)

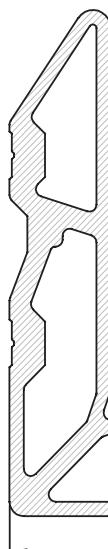


Corner cleat

5278

(1.485 kg / m)

70.5

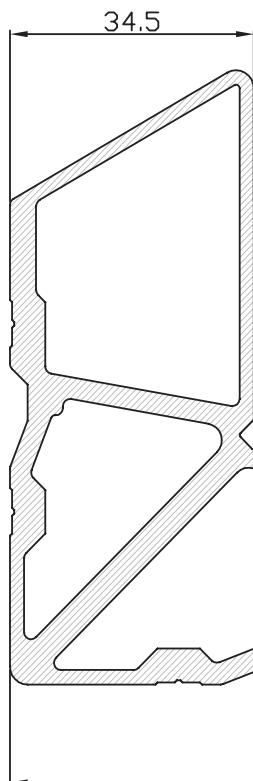


Corner cleat

5574

(2.039 kg / m)

70



Corner cleat

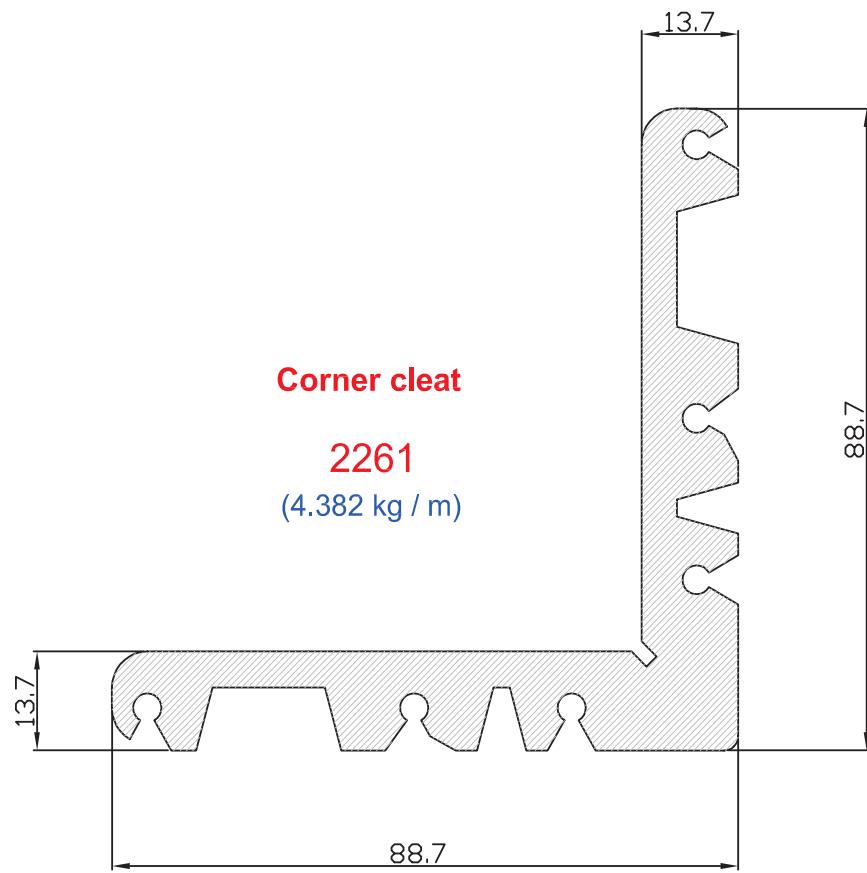
5575

(3.095 kg / m)

85

CASEMENT THERMAL BREAK
HINGED WINDOWS AND DOORS SECTIONS

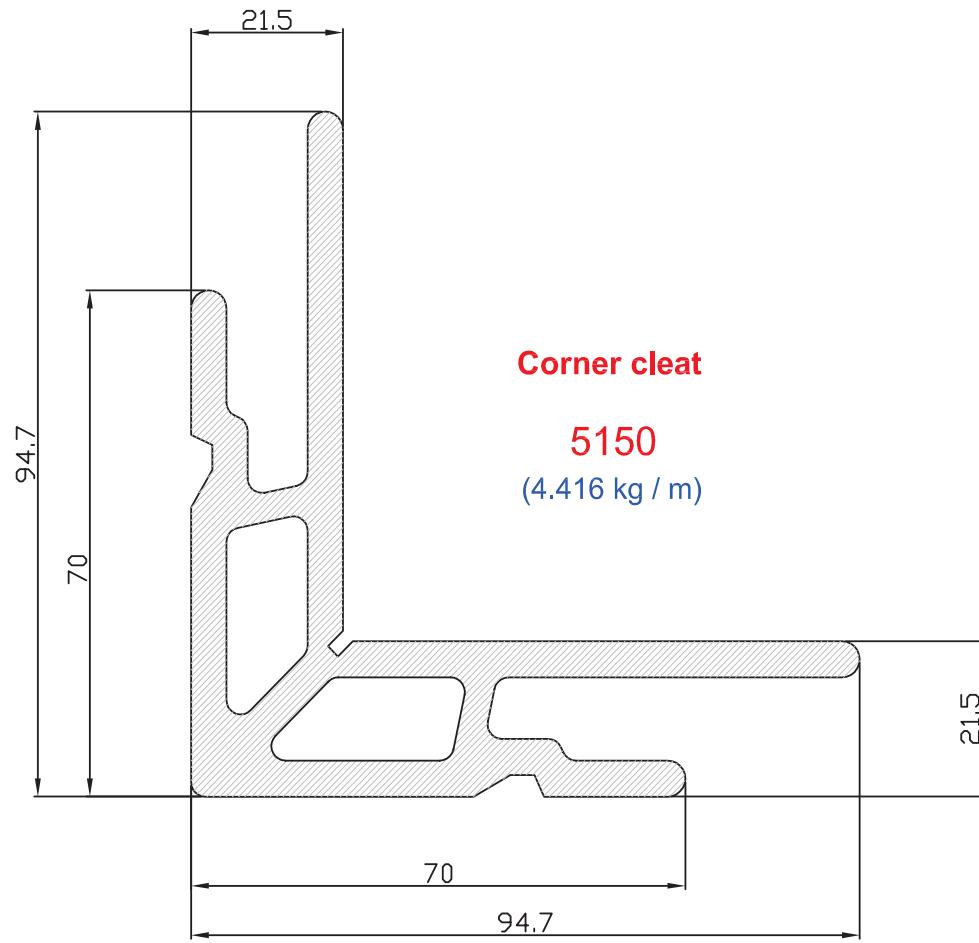
ECO - 500



Corner cleat

2261

(4.382 kg / m)



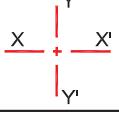
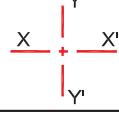
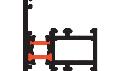
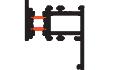
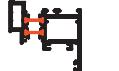
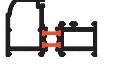
Corner cleat

5150

(4.416 kg / m)

**THERMAL BREAK CASEMENT SERIES
SECTIONS MOMENT OF INERTIA**

ECO - 500

	Sec. No.	I _{xx'} (CM ⁴)	I _{yy'} (CM ⁴)		Sec. No.	I _{xx'} (CM ⁴)	I _{yy'} (CM ⁴)
	TA 516	09.23	15.09		TA 542	03.11	17.48
	TA 517	86.07	27.84		TA 543	08.69	24.54
	TA 518	07.40	16.39		TA 544	05.51	12.14
	TA 523	07.53	16.96		TA 545	21.62	23.56
	TA 524	22.23	13.47		TA 546	11.79	16.55
	TA 525	32.99	28.55		TA 547	31.18	23.52
	TA 526	31.06	28.41		TA 650	18.16	30.61
	TA 529	20.49	18.66		TA 660	14.21	42.96
	TA 532	11.61	32.42				
	TA 533	19.26	18.37				
	TA 534	06.88	11.04				
	TA 535	43.50	30.86				
	TA 536	18.44	23.72				
	TA 540	02.87	08.61				
	TA 541	08.49	12.93				