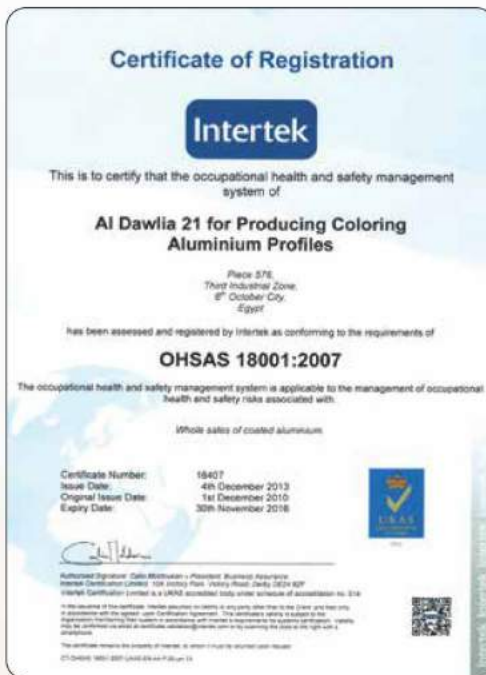
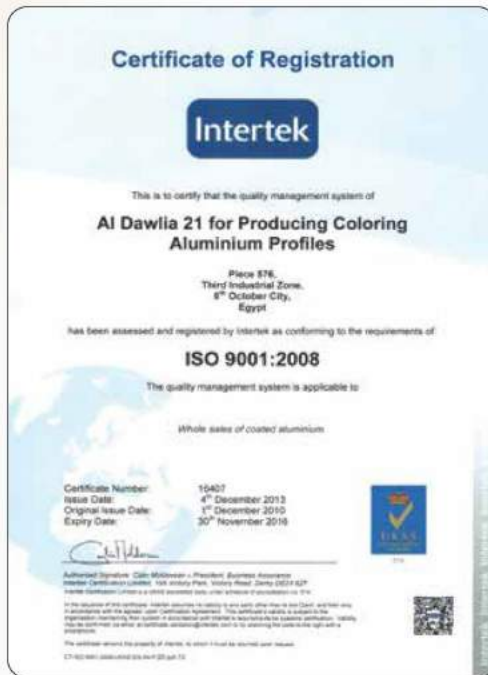


ALCEO[®]
VOLCANO 70
Aluminum Sliding System

INDEX

NUMERIQUE

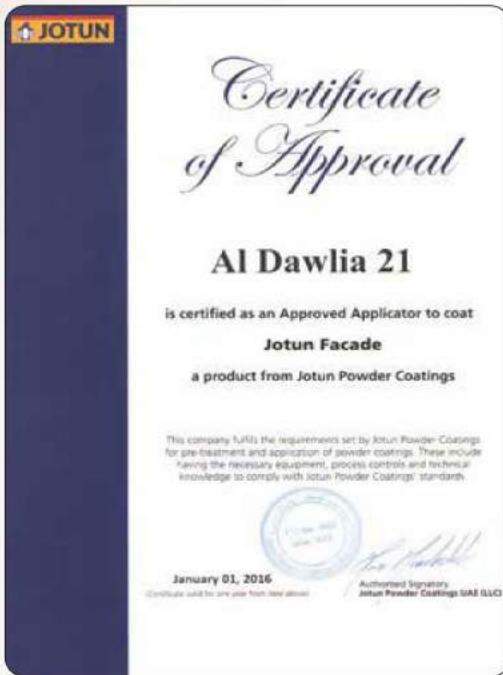
■P...	2-4	Certificates.
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VOLCANO 70

ALCERO Systems

Dawlia 21



**Authorization
to use the quality sign**



This is to certify that
DAWLIA21 FOR PRODUCING COLORED ALUMINIUM PROFILES
3rd Industrial Zone, Block E, Land # 114
EG - 12566 6 October City

Licence number: 1601

is authorized to use the quality sign which is shown above according to the REGULATIONS FOR THE USE OF THE QUALICOAT QUALITY SIGN FOR PAINT, LACQUER AND POWDER COATINGS ON ALUMINIUM FOR ARCHITECTURAL APPLICATIONS.

Date of issue of the licence: 20.08.2009
Period of validity of the licence: until 31.12.2016

Zurich, 17 November 2015

QUALICOAT

M. C. Panam
Mohammed C. Panam
President

CERTIFICATION BODY

Qim
Josef Schoopig
AC-Fidutaire SA

Writing address:
QUALICOAT, P.O. Box 1587, CH-8027 Zurich
Domicile:
QUALICOAT c/o AC-Fidutaire SA, Eidstrasse 47, CH-8002 Zurich

Phone: +41 (0)43 355 22 7070
Fax: +41 (0)43 355 22 90
E-mail: wh@qualicoat.net
Internet: www.qualicoat.net

**LICENCE CERTIFICATE
AUTHORISATION TO USE
THE QUALITY MARK**



DECORATOR

This is to certify that

Al Dawlia 21
Plot 576, Third Ind. Zone - EG-6th of October City
Licence Number: ET-0001

is authorized to use the quality mark shown above on approved decoration systems produced by suppliers certified by QUALIDECO and/or on decorations successfully tested according to the QUALIDECO Specifications (www.qualideco.eu).

Date of issue of the licence: 02.03.2015
Period of validity of the licence: until 31.12.2016

Zurich, 15 December 2015

QUALICOAT

M. C. Panam
Mohammed C. Panam
President

Qim
Josef Schoopig
General Secretary

Juan A. Bernabé
Juan A. Bernabé
QUALIDECO Committee

QUALIDECO c/o QUALICOAT, P.O. Box 1587, CH-8027 Zurich - Domicile: Eidstrasse 47, 8002 Zurich (Switzerland)
Tel: +41 43 355 22 7070 - Fax: +41 43 355 22 90 - E-Mail: wh@qualideco.eu - Internet: www.qualideco.eu



AkzoNobel

Interpon D Approved Applicator

Interpon D1000 Series

**Al Dawlia 21 for producing Colored
Aluminum Profiles**

6th October City, 3rd Industrial Zone, Piece 576, Giza
Egypt

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from

12 February 2016 to 11 February 2017

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome

Emeraldia Maria Maio
Emeraldia Maria Maio
Business Development Manager
Middle East and Africa

Date: 16/02/2016

Certification number N° EGY0501

AkzoNobel Powder Coatings SAE



AkzoNobel

Interpon D Approved Applicator

Interpon D2000 Series

**Al Dawlia 21 for producing Colored
Aluminum Profiles**

6th October City, 3rd Industrial Zone, Piece 576, Giza
Egypt

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from

12 February 2016 to 11 February 2017

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome

Emeraldia Maria Maio
Emeraldia Maria Maio
Business Development Manager
Middle East and Africa

Date: 16/02/2016

Certification number N° EGY0502

AkzoNobel Powder Coatings SAE

SPECIFICATION TECHNIQUE TECHNICAL SPECIFICATION

PROFILS:

Ce système a été étudié et conçu par Alceo, pour la fabrication de fenêtre à frappe et coulissante. Il utilise les dernières technologies d'assemblage et de fabrication. Ce nouveau système est en conformité avec le standard Européen.

NORMES PRINCIPALES:

Etudes et production: NF P24-101, NF P24-301, XP P24-400 et 401

Test et classification: NF EN 1026, NF EN 1027, NF EN 12211, NF EN 12207, NF EN 12208, NF EN 12210.

Performances thermiques et acoustiques: NF EN 410, NF EN 673, NF EN ISO 10077-1, PR EN 13947, NF EN ISO 140-4 et NF EN ISO 140-5.

MATIERE:

Le profil extrudé est en alliage d'aluminium (Al Mg Si) 6060 (norme NF EN 573-3, NF EN 755-1 and 2). Les tolérances sont conformes à la norme NF EN 12020-1 et 2).

TRAITEMENT THERMIQUE:

T4-T5-T6

PROTECTION:

Classe d'anodisation :
classe 15 (15-20 microns)
Classe 20 (20-25 microns) en option
L'anodisation est conforme au label qualité QUALANOAD EWWA/EURAS

ACCESSOIRES:

Tous les accessoires, produits et joints sont conçus pour le système Alceo.
Utilisation de matériaux de haute qualité.
Visserie: Acier inoxydable 18/10
Joint: EPDM
Autres: Polyamide, Zamack, Fonte d'aluminium

PROFILES:

This system studied and designed by Alceo is specific for hinged and sliding windows. Using the last technology for fixing and manufacturing operation. This new system is in conformance with French European standard.

MAIN NORMS:

Study and production: NF P24-101, NF P24-301, XP P24-400 and 401

Test and classification: NF EN 1026, NF EN 1027, NF EN 12211, NF EN 12207, NF EN 12208, NF EN 12210.

Thermic and noise performance: NF EN 410, NF EN 673, NF EN ISO 10077-1, PR EN 13947, NF EN ISO 140-4 and NF EN ISO 140-5.

MATERIAL:

The extracted profile are in aluminum alloy (Al Mg Si) 6060 (norm NF EN 573-3, NF EN 755-1 and 2). All tolerance are specific norm NF EN 12020-1 and 2).

THERMICAL TREATMENT:

T4-T5-T6

PROTECTION:

Anodized class 15 (15-20 microns)
Class 20 (20-25 microns) in option
Anodisation will be conforms to the quality label QUALANOAD EWWA/EURAS

ACCESSORIES:

All accessories, hardware or gaskets are designed for Alceo system.
High quality material using.
Screw: Stainless steel 18/10
Gasket: EPDM
Other: Polyamide, Zamack, Cast aluminum

SPECIFICATION TECHNIQUE TECHNICAL SPECIFICATION (suite)

CONCEPT PRODUIT:

Coulissant, frappe de type traditionnel.

CADRE FIXE:

Le cadre fixe est de forme tubulaire

CHASSIS OUVRANT:

Coté et montant central sont de forme tubulaire.

ASSEMBLAGE:

Cadre dormant : Coupe a 45° assemblé par equerres vissées.

Cadre ouvrant : Coupe a 45° assemblé par equerres vissées.

VITRAGE :

Simple ou double vitrage, de 6 mm a 22 mm maintenu par des joints en EPDM clippé sur le panneau avec un prise en feuillure minimum de 20mm. Le chassis doit être monté à l'intérieur de la maçonnerie.

ETANCHEITE:

L'étanchéité est assurée par un joint central en EPDM. Une seconde barrière est incluse dans le dormant au centre du chassis (frappe). ; les joints sont en EPDM, ou Silicone.

Les fenêtres et les portes, assure un excellent drainage.

CONCEPT PRODUIT:

Sliding windows, window doors , traditional

FIXED FRAMES:

Fixed frame of form design and tubular section.

OPENING FRAMES:

Side and central of form design and tubular section.

ASSEMBLY:

Door frames: out of cut of mitre by squares with pawn.

Opening: out of cut of mitre by squares with pawn.

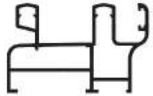
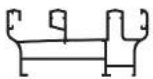

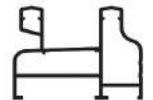
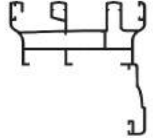
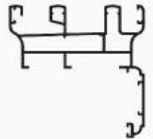
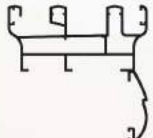
GLAZING:

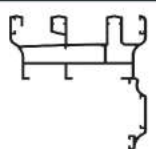

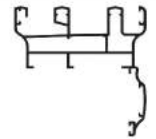

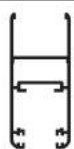


Simple or insulator of 6 with 22 mm maintained by joints in EPDM and a clipped panel a height minimum of 20mm (bottom of feuillure). The panel must obligatorily be with dimensions interior of construction







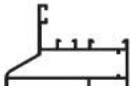
SEALING:



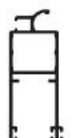




The sealing is guaranteed by a central sealing gasket in EPDM-ASTM tested. A second barrier, constituted by a sealing gasket, is on the flap by the inside overlap. Glazing is done with EPDM sealing gasket or silicone.








The windows and the door producers must guarantee an efficient drainage.

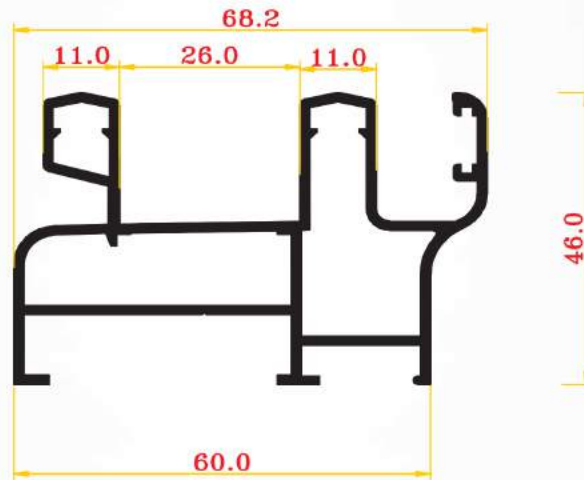
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 70100		SLIDING 2 R OUTER FRAME	1.213	7.822	21.454
DW 70102		SLIDING 2 R OUTER FRAME WITH FLY SCREEN	1.498	9.392	45.680
DW 70103		SLIDING 2 R OUTER FRAME WITH FLY SCREEN	1.348	8.604	35.796
DW 70104		SLIDING 2 R OUTER FRAME	1.054	6.886	15.397
DW 70105		SLIDING 2 R WITH FLY SCREEN ARCHITRAVE D	1.835	39.893	61.620
DW 70106		SLIDING 2 R WITH FLY SCREEN ARCHITRAVE F	1.844	38.965	63.080
DW 70107		SLIDING 2 R WITH FLY SCREEN ARCHITRAVE C	1.843	38.749	61.521

Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm ⁴	Iy-y Cm ⁴
DW 70108		SLIDING 2 R WITH FLY SCREEN ARCHITRAVE F C	10.817	36.397	61.286
DW 70109		SLIDING 3 R OUTER FRAME	1.698	10.719	64.174
DW 70111		SLIDING 2 R WITH FLY SCREEN ARCHITRAVE C C	1.814	35.908	61.007
DW 70200		SLIDING SASH SINGLE GLAZING	0.878	13.364	4.544
DW 70201		SLIDING SASH DOUBLE GLAZING	0.841	11.644	4.503
DW 70202		SLIDING FLAT SASH SINGLE GLAZING	0.871	13.041	4.490
DW 70203		SLIDING FLAT SASH DOUBLE GLAZING	0.834	11.312	4.453

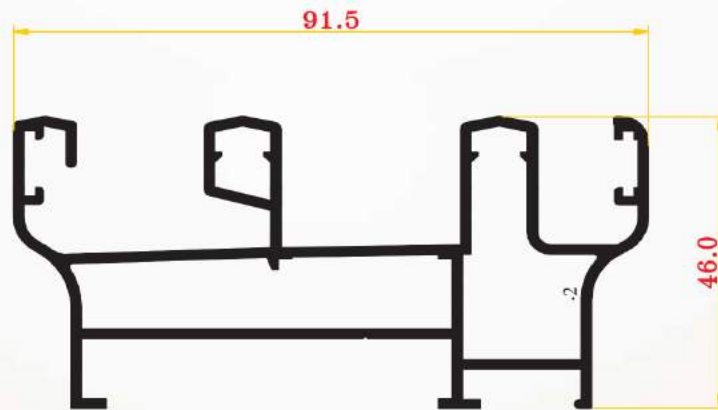
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 70204		SLIDING CURVED SASH SINGLE GLAZING	0.857	12.057	4.203
DW 70205		SLIDING CURVED SASH DOUBLE GLAZING	0.830	11.243	4.259
DW 70312		INTER LOCK PROFILE	0.308	1.719	1.046
DW 70313		INTER LOCK PROFILE CURVED	0.452	2.660	1.948
DW 70314		MEETING ADAPTATOR	0.282	0.409	0.758
DW 44307		FIXED 75mm	0.906	4.295	17.259
DW 44308		FIXED 60 mm	0.805	4.080	10.566

Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 44400		SINGLE GLAZING BEED	0.258		
DW 44401		DOUBLE GLAZING BEED	0.213		
DW 12315		FLY SCREEN	0.655	9.224	1.925
DW 12316		MEETING ADAPTATOR FLY SCREEN	0.173	0.986	0.886
DW 12300		DECORATIVE ARCHITRAVE 50 mm	0.369		
DW 12301		DECORATIVE ARCHITRAVE 34 mm	0.295		
DW 12302		ARCHITRAVE FLAT 50 mm	0.307		

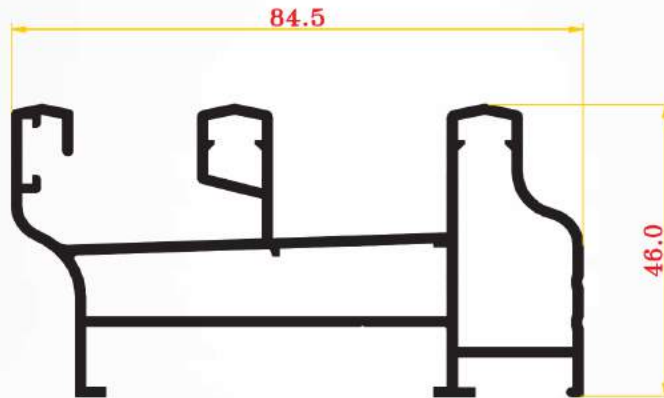
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 12303		ARCHITRAVE FLAT 34 mm	0.237		
DW 12304		ARCHITRAVE 50 mm	0.357		
DW 12305		ARCHITRAVE 34 mm	0.280		
DW 12308		ROUND ARCHITRAVE 50 mm	0.365		
DW 12309		ROUND ARCHITRAVE 34 mm	0.298		
DW 12310		CURVED ARCHITRAVE 50 mm	0.355		
DW 12311		CURVED ARCHITRAVE 34 mm	0.273		



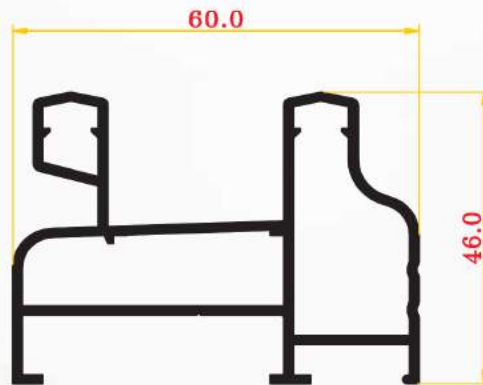
DW 70100
1.213 Kg/m.



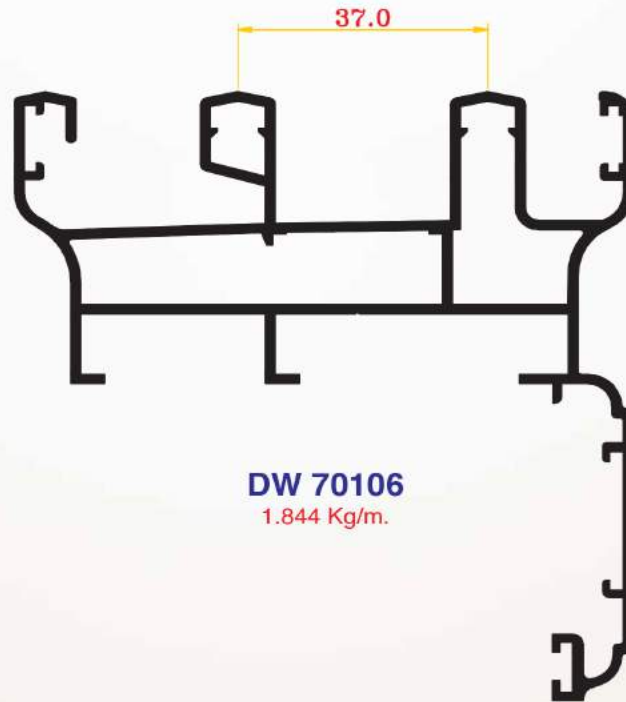
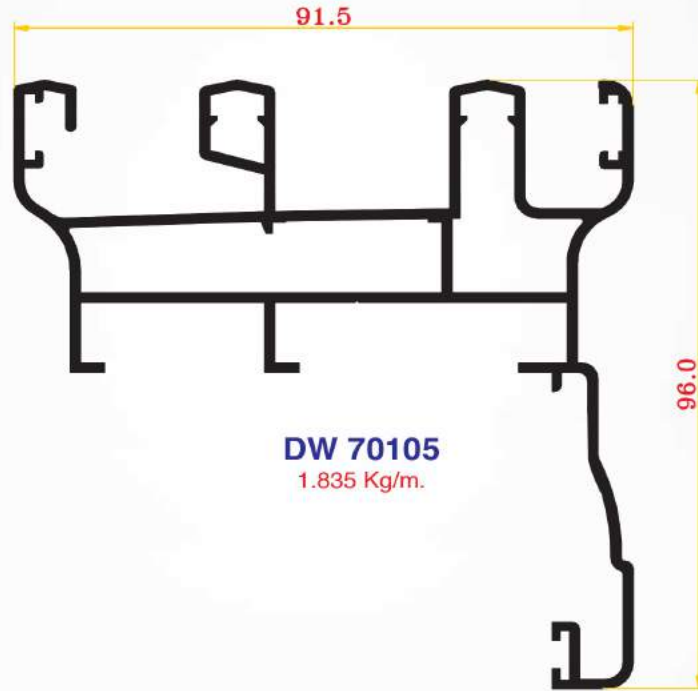
DW 70102
1.498 Kg/m.

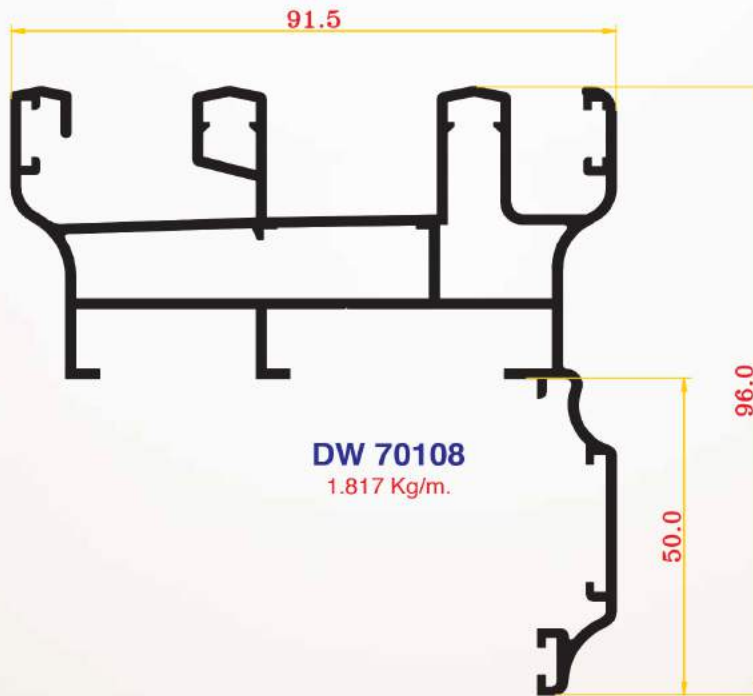
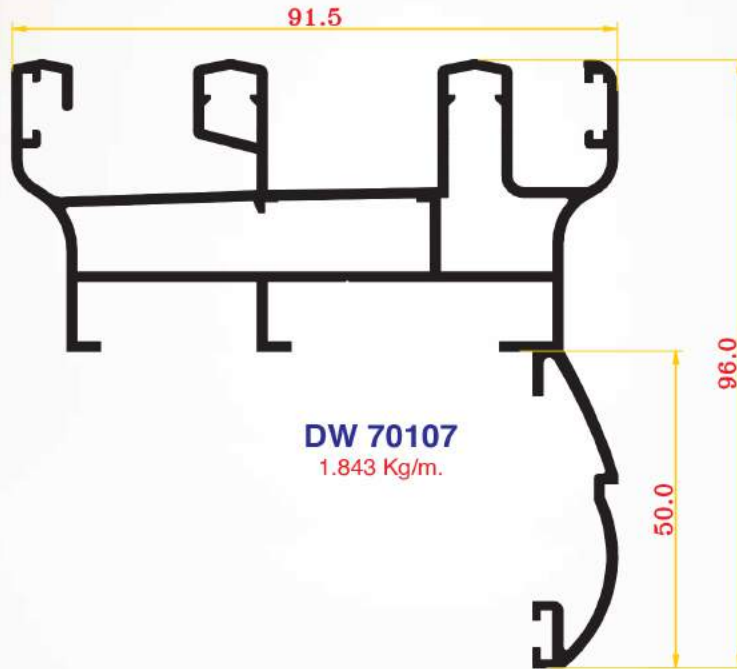


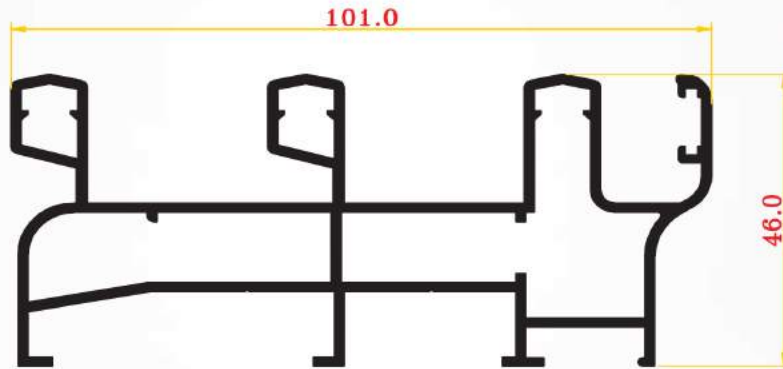
DW 70103
1.348 Kg/m.



DW 70104
1.054 Kg/m.

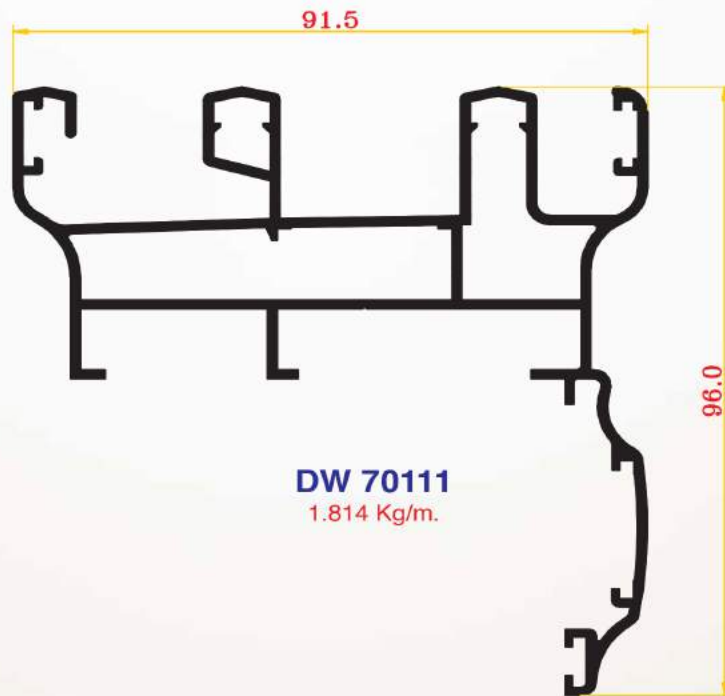






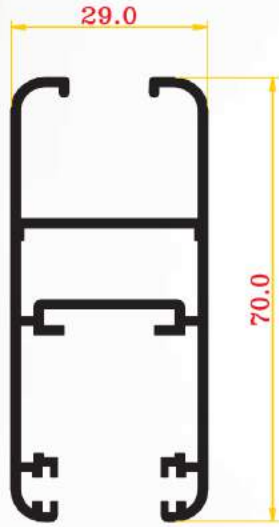
DW 70109

1.698 Kg/m.

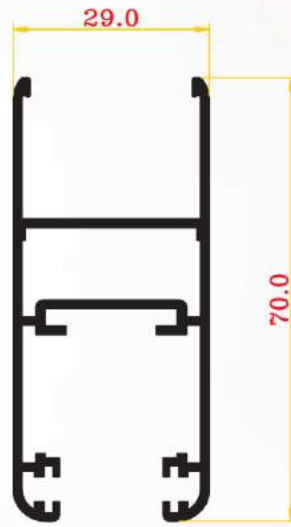


DW 70111

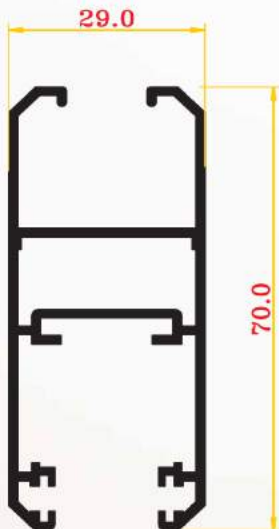
1.814 Kg/m.



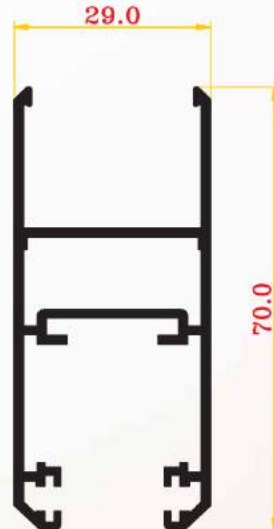
DW 70200
0.878 Kg/m.



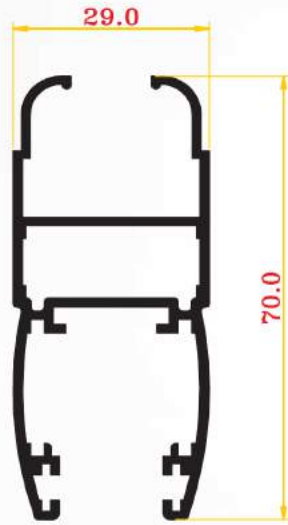
DW 70201
0.841 Kg/m.



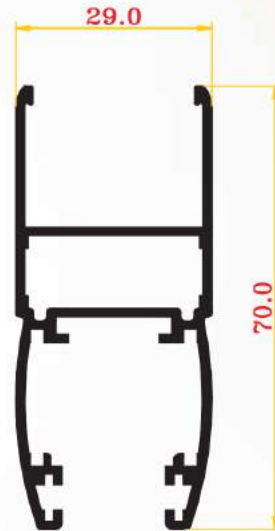
DW 70202
0.871 Kg/m.



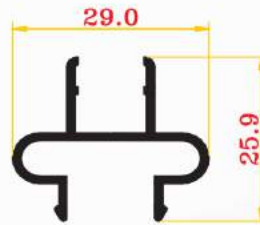
DW 70203
0.834 Kg/m.



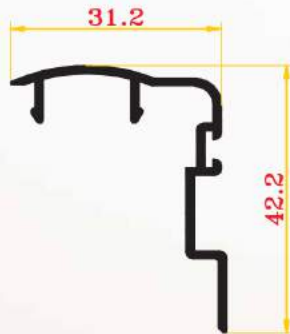
DW 70204
0.857 Kg/m.



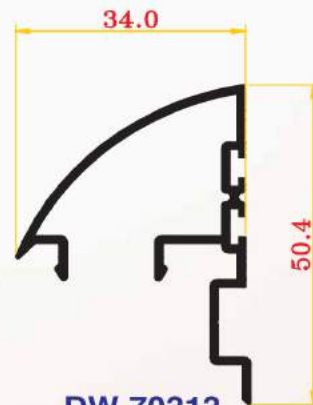
DW 70205
0.830 Kg/m.



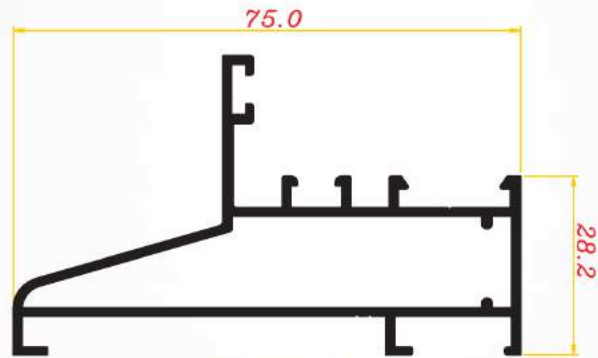
DW 70314
0.282 Kg/m.



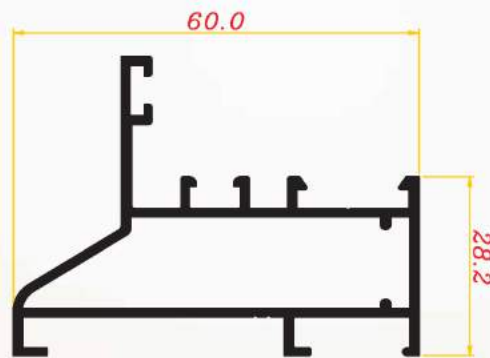
DW 70312
0.308 Kg/m.



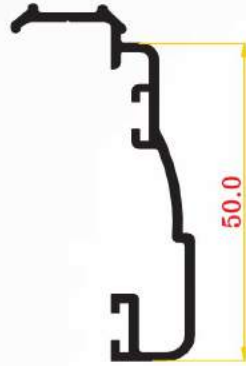
DW 70313
0.452 Kg/m.



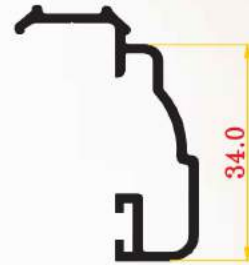
DW 44307
0.906 Kg/m.



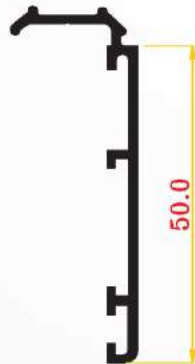
DW 44308
0.805 Kg/m.



DW 12300
0.369 Kg/m.



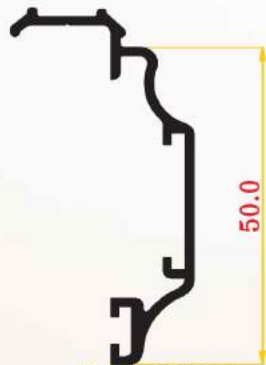
DW 12301
0.295 Kg/m.



DW 12302
0.307 Kg/m.



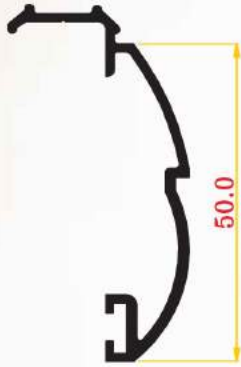
DW 12303
0.237 Kg/m.



DW 12304
0.357 Kg/m.



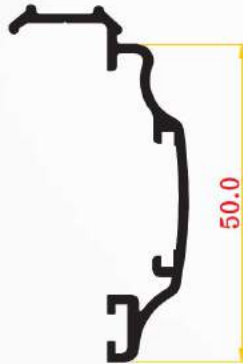
DW 12305
0.280 Kg/m.



DW 12308
0.365 Kg/m.



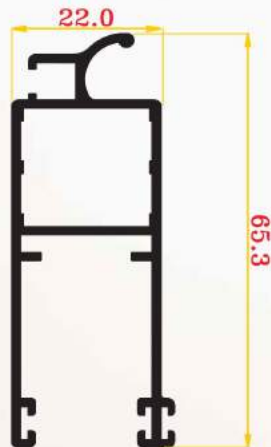
DW 12309
0.298 Kg/m.



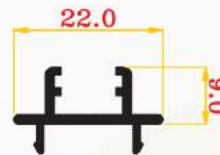
DW 12310
0.355 Kg/m.



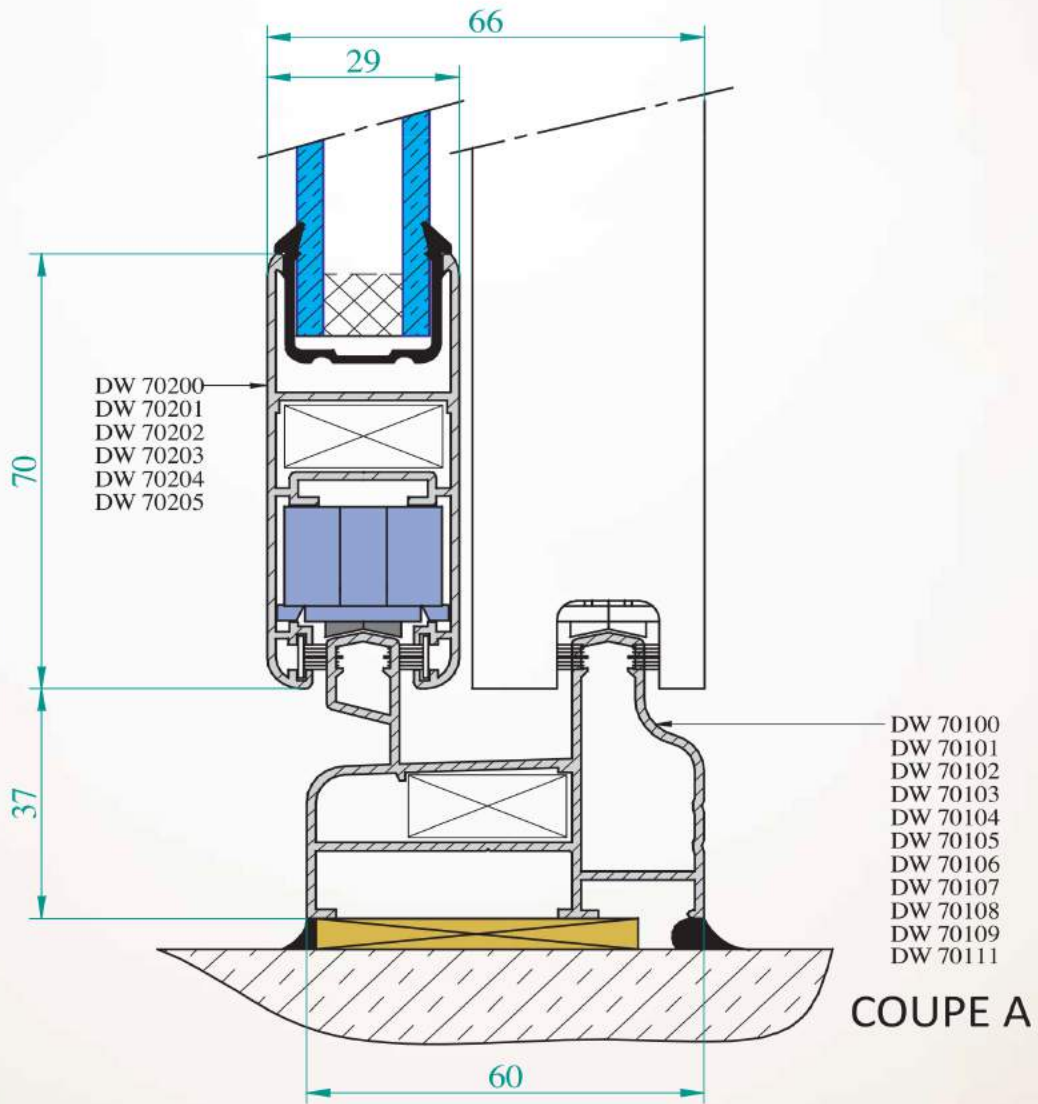
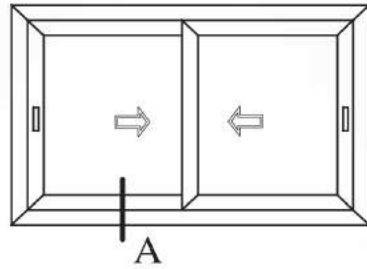
DW 12311
0.273 Kg/m.

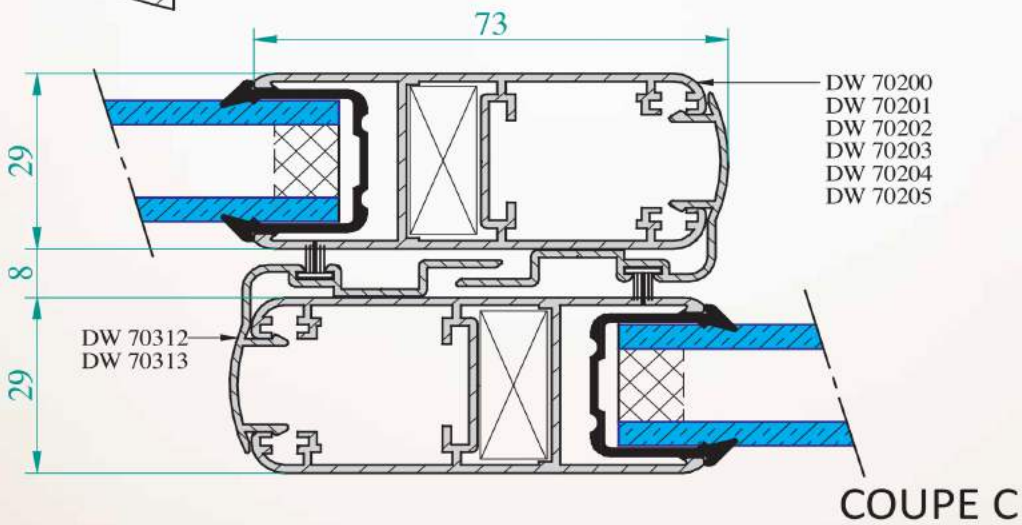
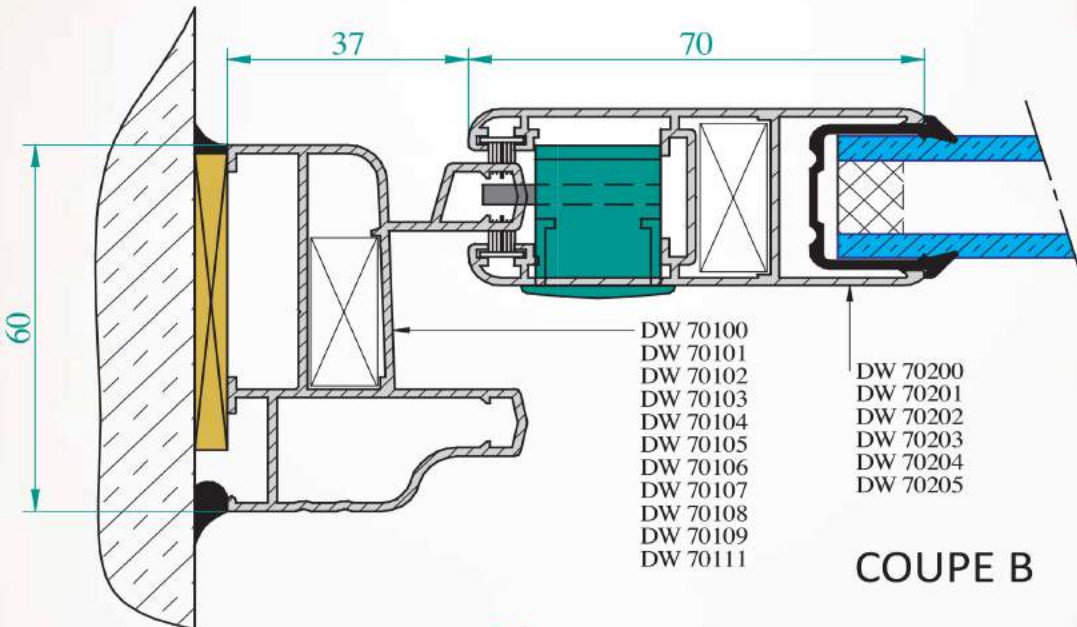
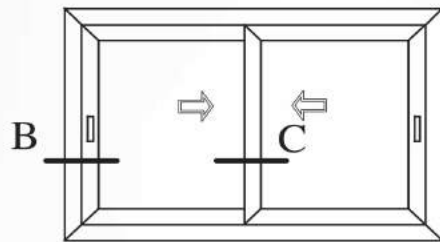


DW 12315
0.655 Kg/m.

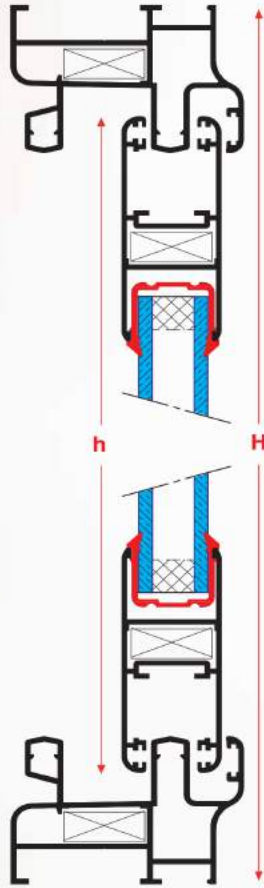


DW 12316
0.173 Kg/m.

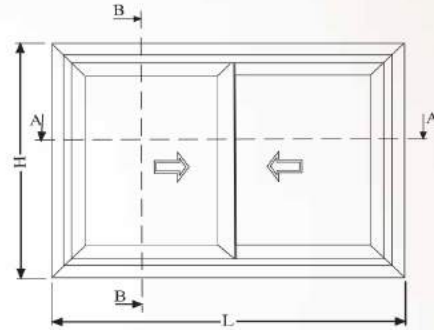




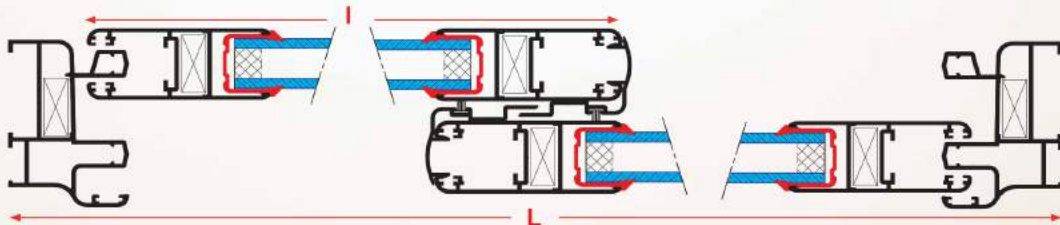
Fenêtre Coulissante 2 Feuilles



COUPE B-B

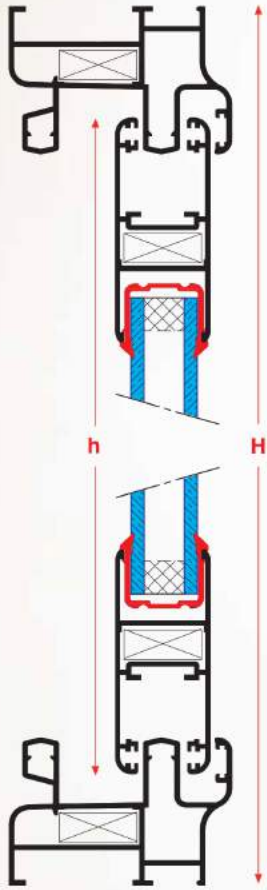


CUTTING LIST			
Shape	Prof. No	QTY.	CUTTING LENGTH (mm)
	DW 70100	2	L
		2	H
	DW 70200	4	$\frac{L-7}{2}$ $\frac{L-27}{2}$
		4	H - 74
	DW 70312	2	H - 74
	DW 70313	2	H - 74
GLASS		2	$\frac{L - 218}{2}$
			H - 180

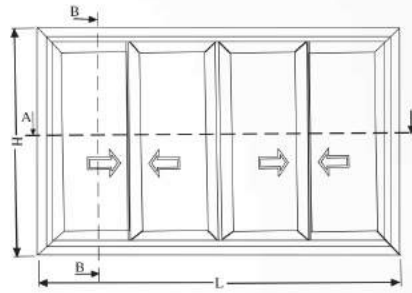


COUPE A-A

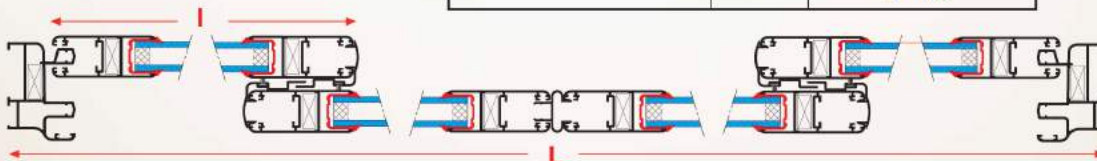
Fênetre Coulissante 4 Feuilles



COUPE B-B

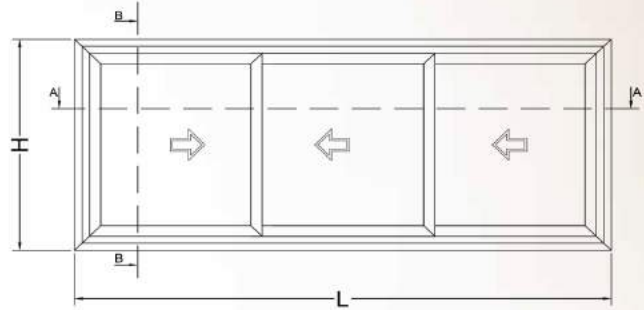
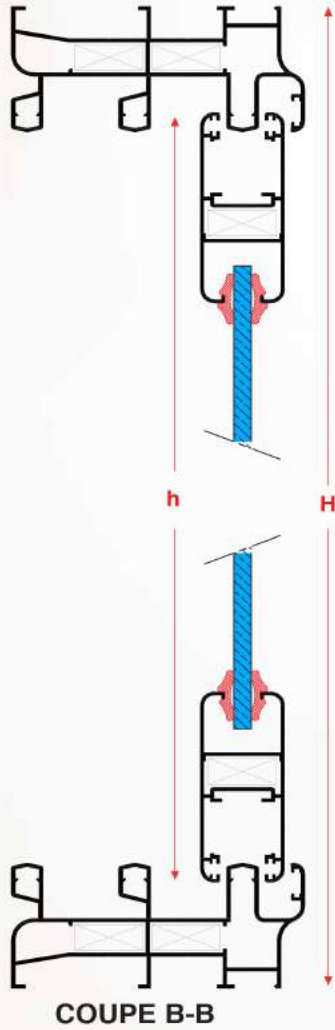


CUTTING LIST			
Shape	Prof. No	QTY.	CUTTING LENGTH (mm)
	DW 70100	2	L
		2	H
	DW 70200	8	$\frac{L+52}{4}$ $\frac{L+6}{4}$
		8	H - 74
	DW 70312	4	H - 74
	DW 70313	4	H - 74
	DW 70314	1	H - 74
GLASS		4	$\frac{L - 370}{4}$
			H - 180

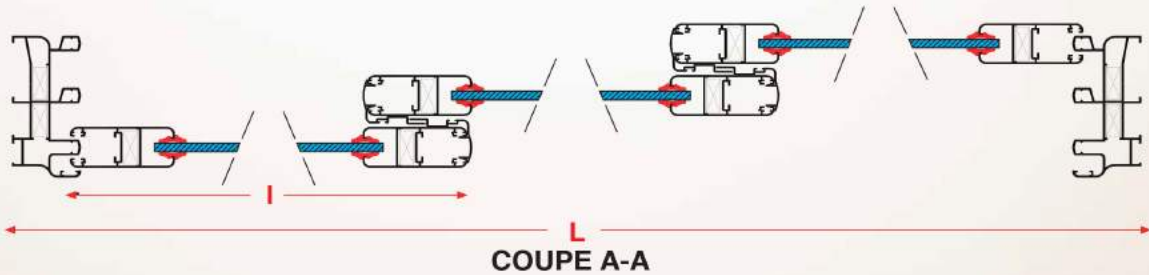


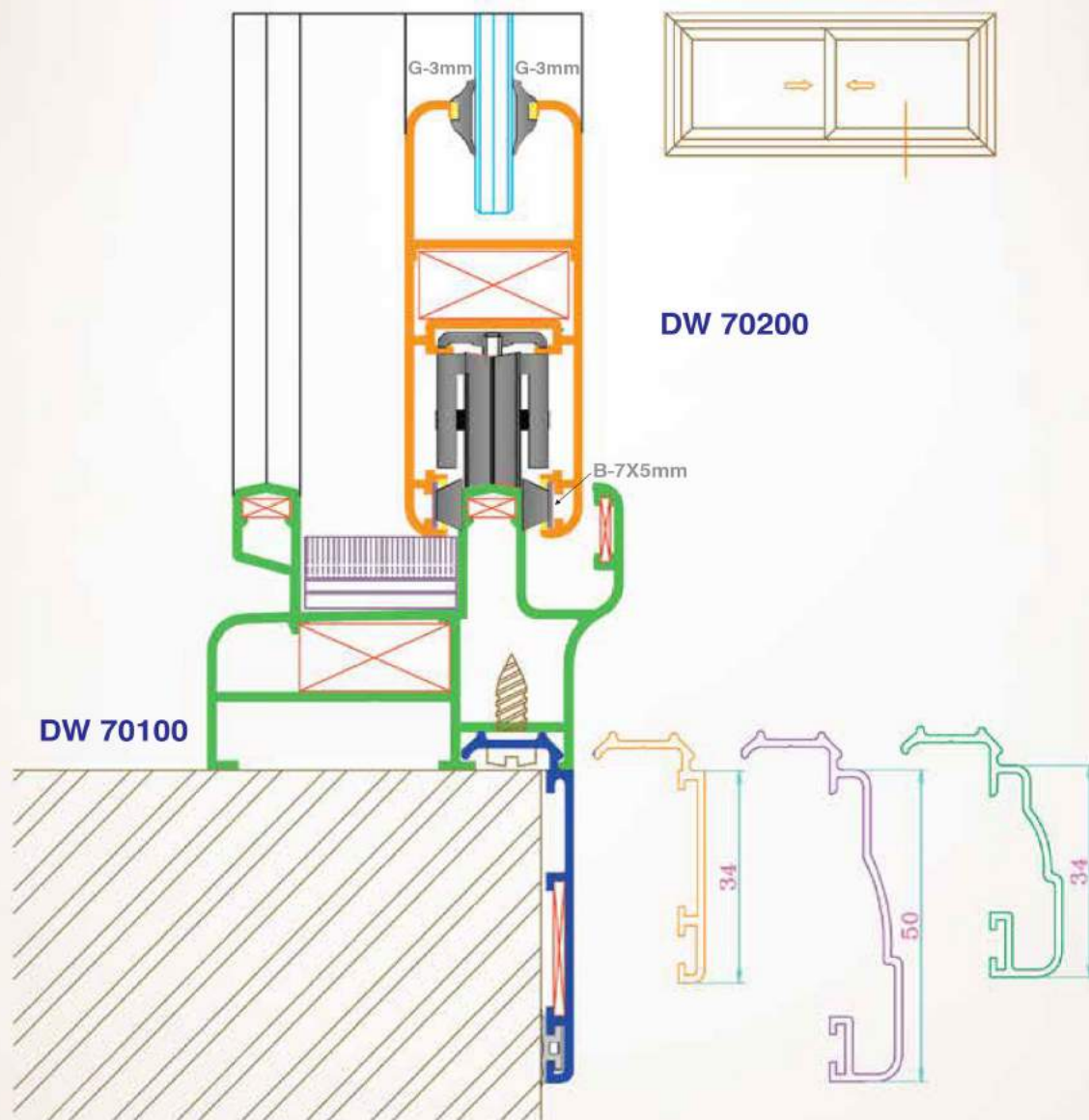
COUPE A-A

Fe tre Coulissante 3 Feuilles



CUTTING LIST			
Shape	Prof. No	QTY.	CUTTING LENGTH (mm)
	DW 70109	2	L
		2	H
	DW 70200	6	$\frac{L+54}{3}$ $\frac{L+42}{3}$
		6	H - 74
	DW 70312	4	H - 74
	DW 70313	4	H - 74
GLASS		3	$\frac{L - 261}{3}$
			H - 180

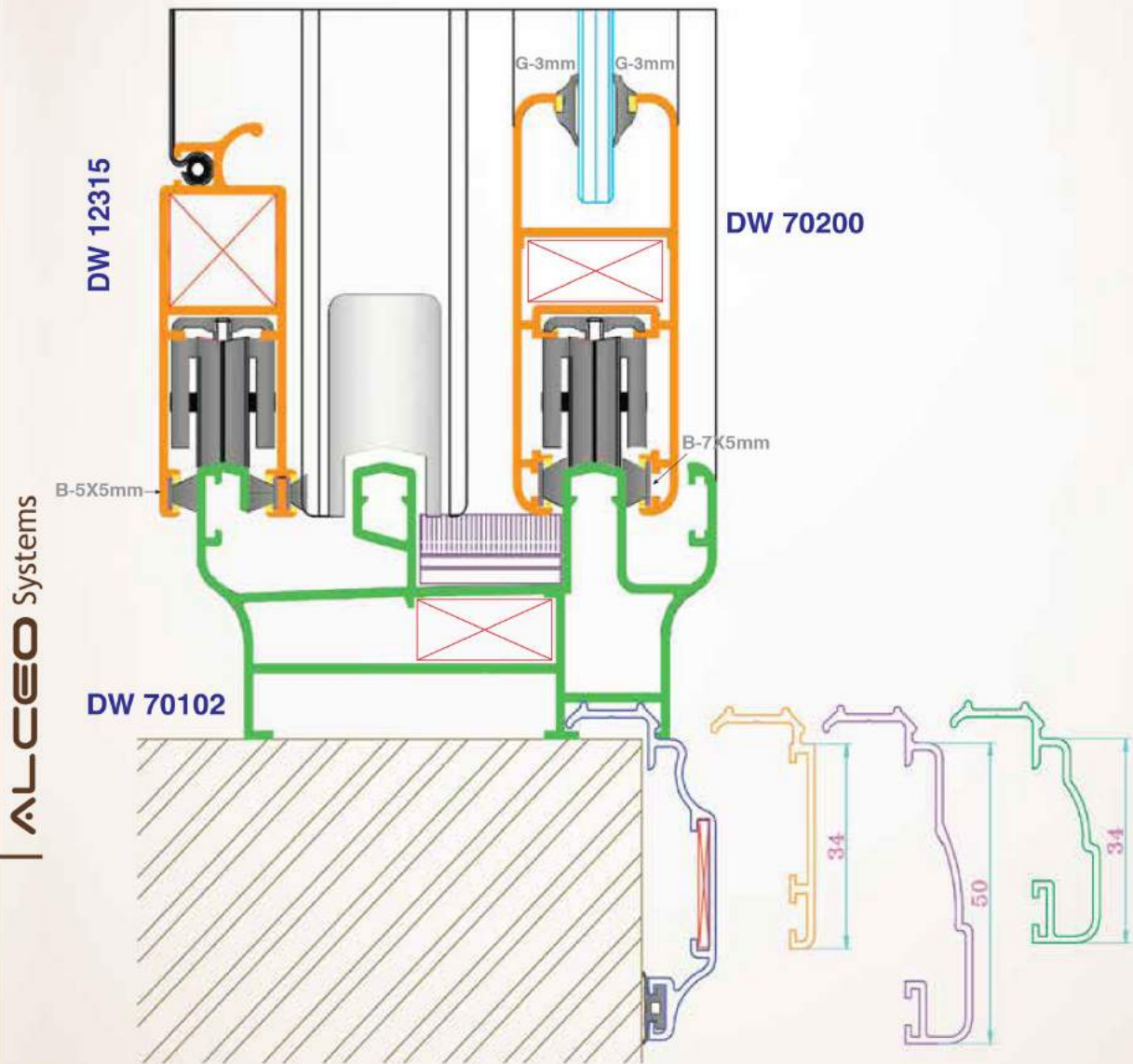
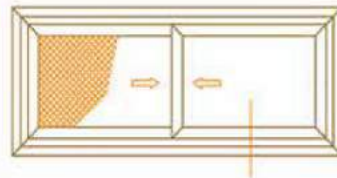




ALCEO Systems

VOLCANO 70

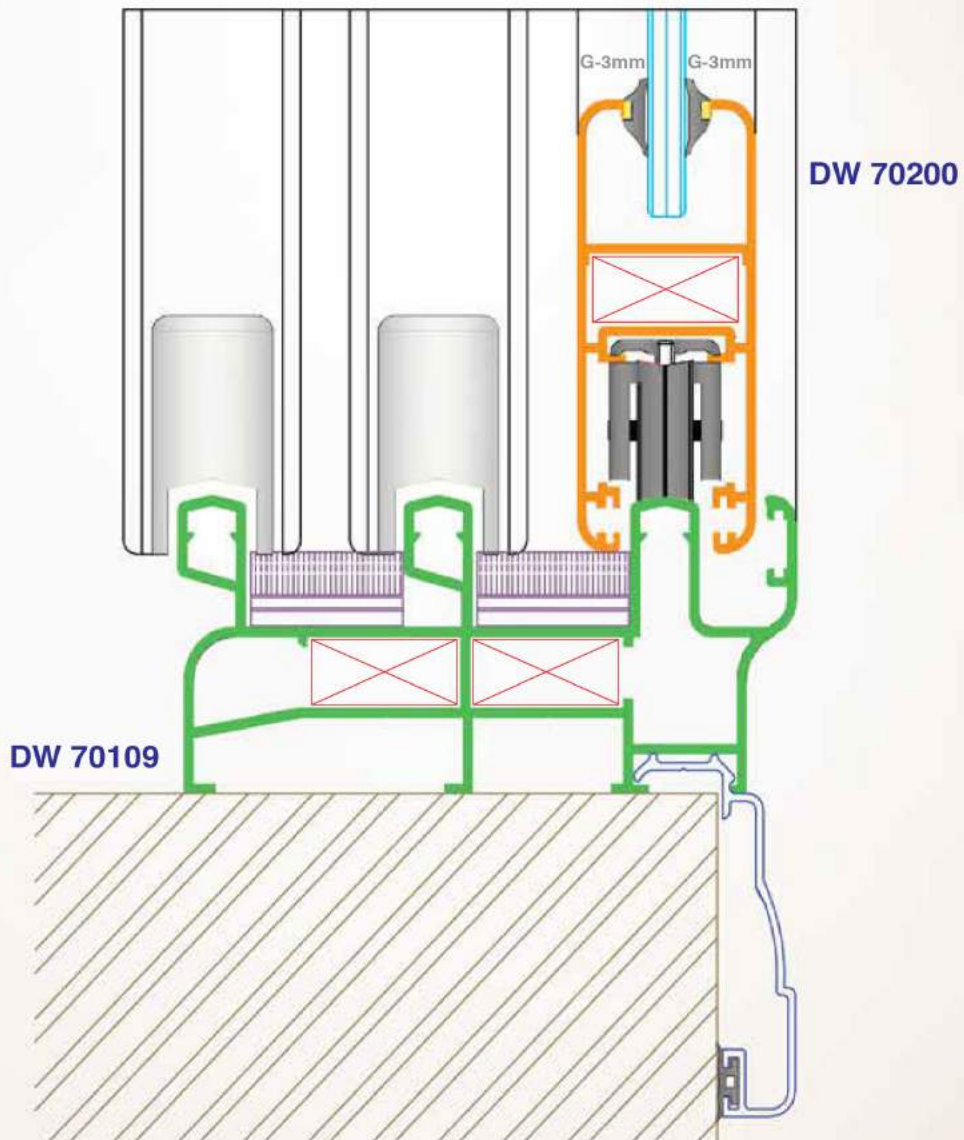
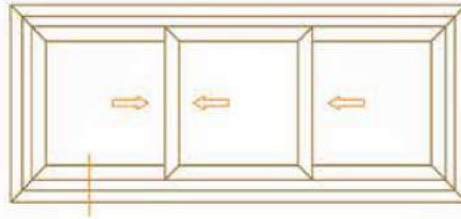
Dawlia 21



VOLCANO 70

ALCCEO Systems

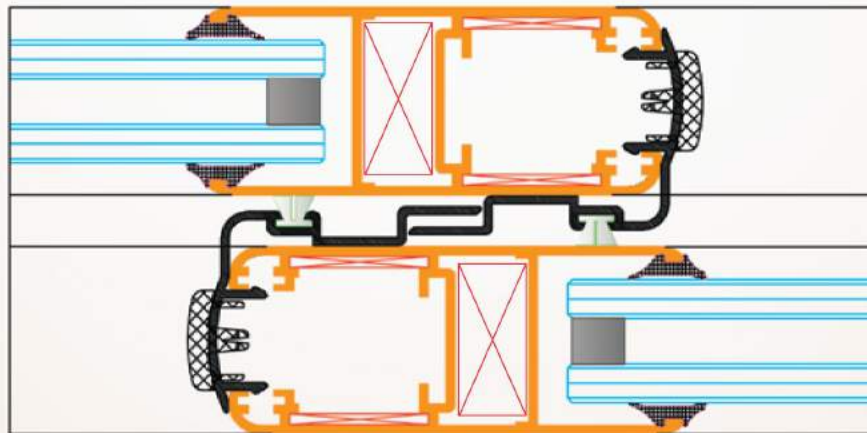
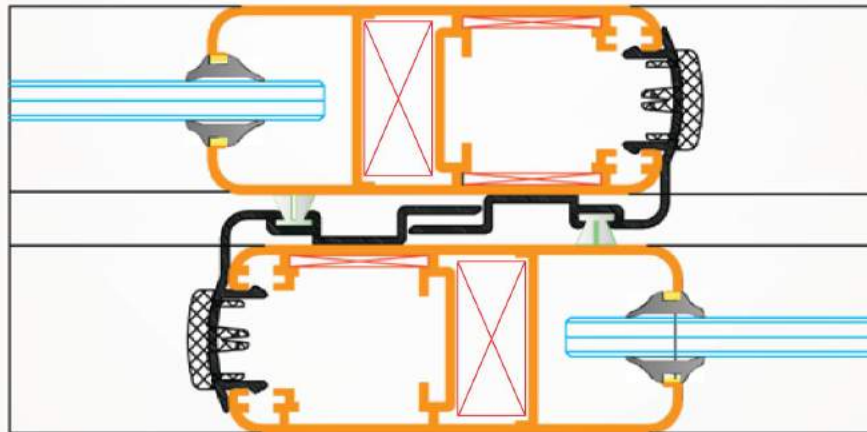
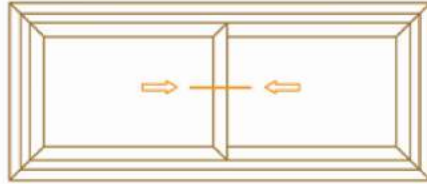
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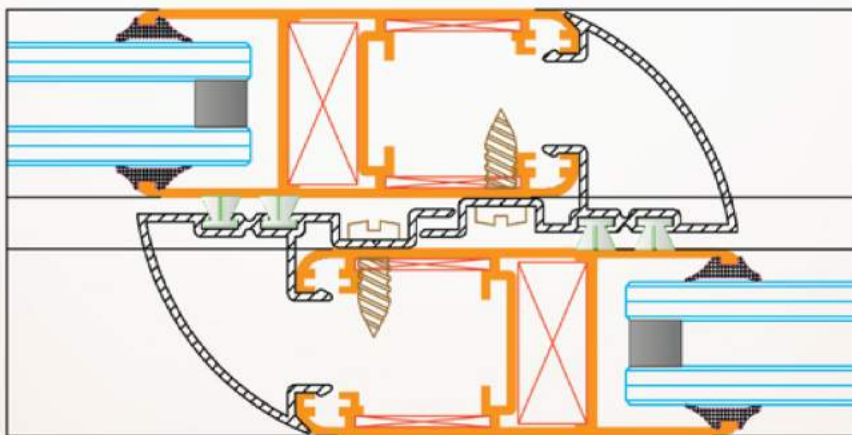
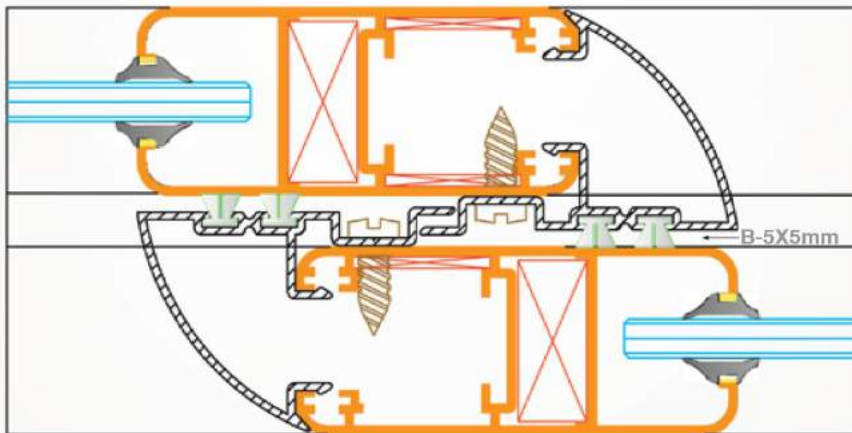
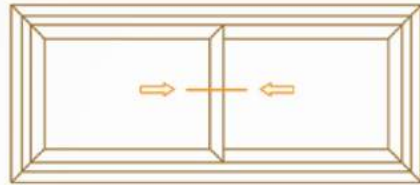


ALCCEO Systems

VOLCANO 70

Dawlia₂₁

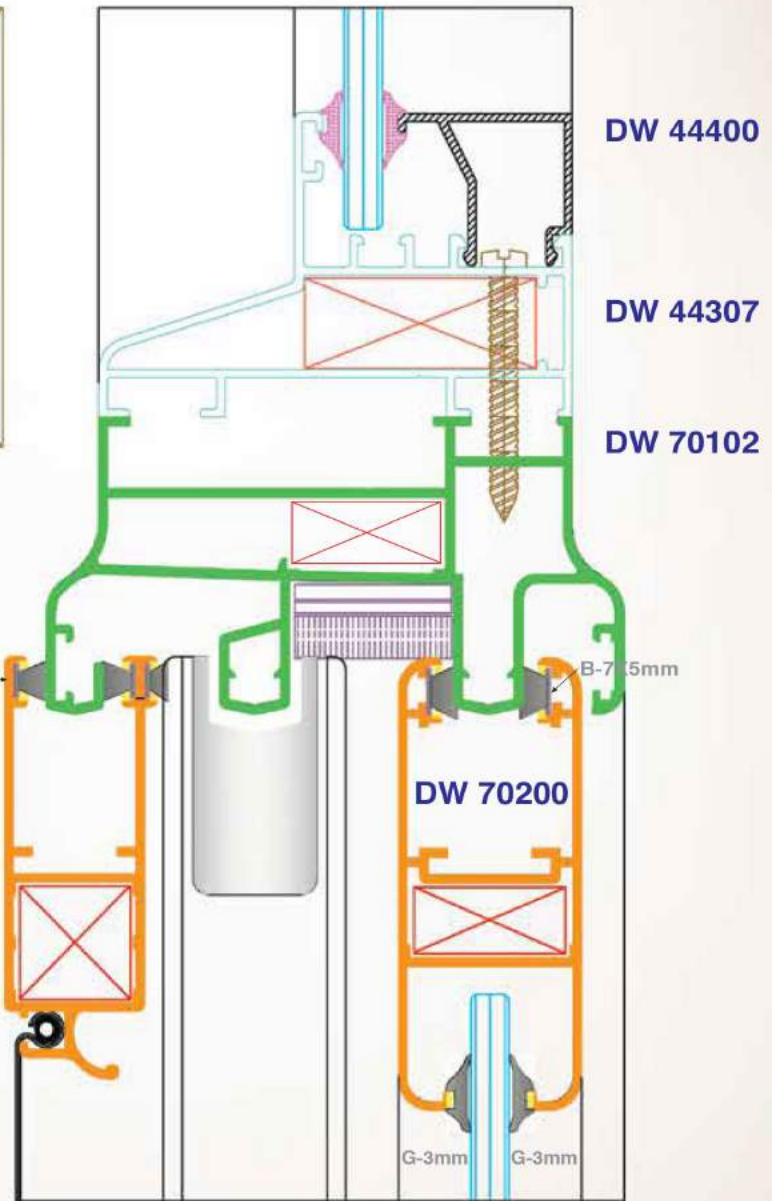
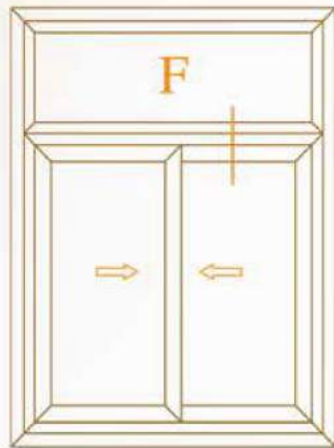


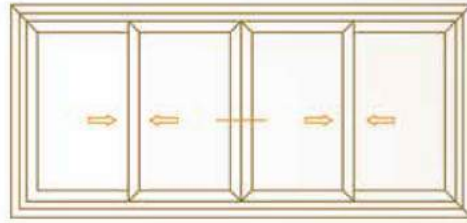
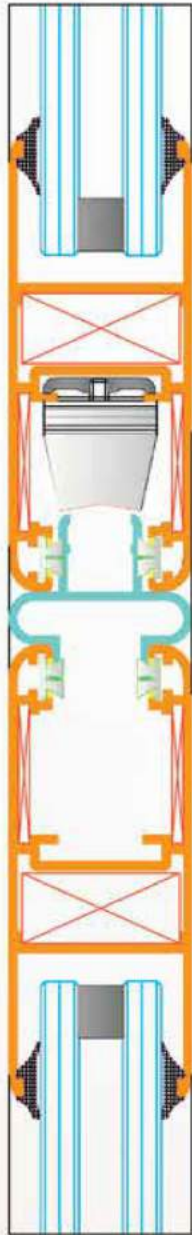
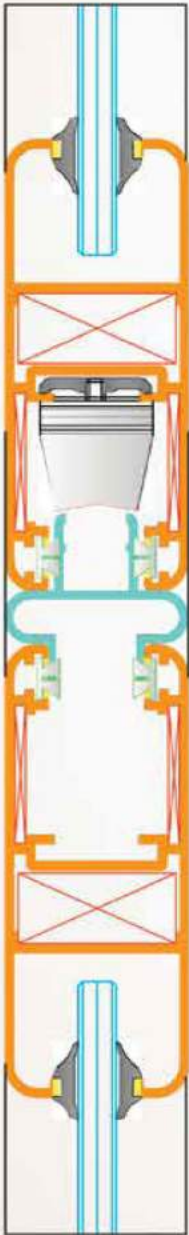


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Dawlia 21

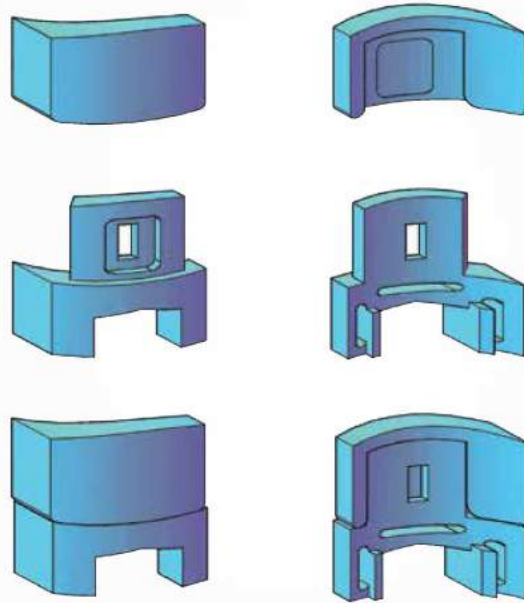




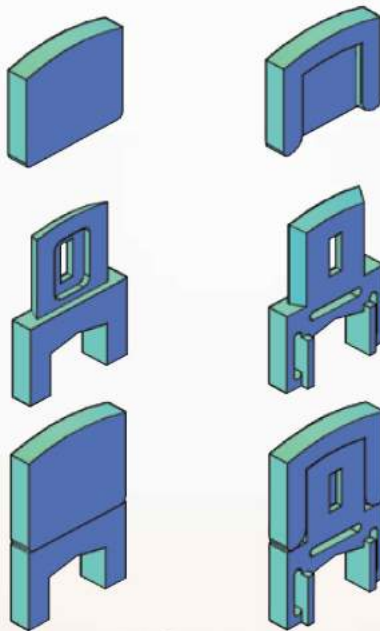
ALCEO Systems

VOLCANO 70

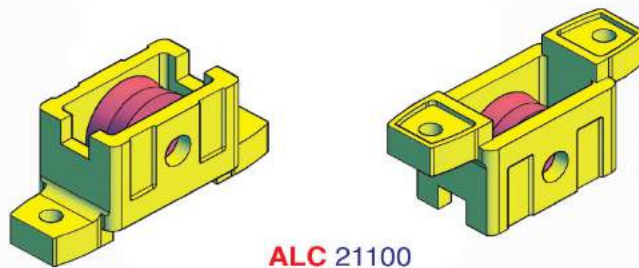
Dawlia 21



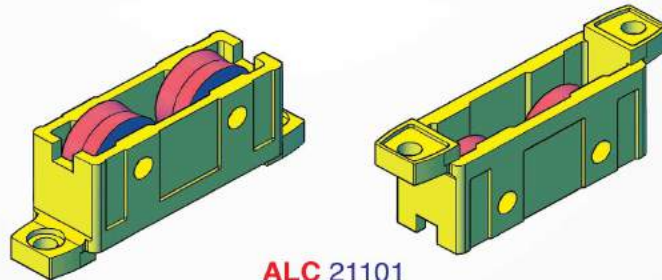
ALC 25101
(Inter Lock Curved)



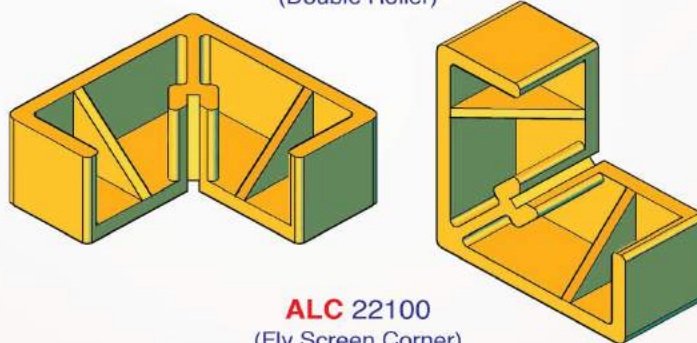
ALC 25100
(Inter Lock Flat)



ALC 21100
(Single Roller)



ALC 21101
(Double Roller)



ALC 22100
(Fly Screen Corner)