

**ALCEO<sup>®</sup>**  
**VOLCANO 44**  
Aluminum Hinged System

# INDEX

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**Certificate of Registration**

**Intertek**

This is to certify that the quality management system of

**AI Dawlia 21 for Producing Coloring Aluminium Profiles**

Piece 576,  
Third Industrial Zone,  
6<sup>th</sup> October City,  
Egypt


has been assessed and registered by Intertek as conforming to the requirements of:

**ISO 9001:2008**

The quality management system is applicable to

Whole sales of coated aluminium.

Certificate Number:	16407
Issue Date:	4 <sup>th</sup> December 2013
Original Issue Date:	1 <sup>st</sup> December 2010
Expiry Date:	30 <sup>th</sup> November 2016



*Authorized Signature: Cain Mottewatt – President, Business Assurance  
Intertek Certification Limited, 104 Victory Park, Victory Road, Derby DE24 8ZF*

In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at [certinfo@intertek.com](mailto:certinfo@intertek.com) or by scanning the code to the right with a smartphone.

The certificate remains the property of Intertek, to whom it must be returned upon request.

CT-ISO 9001:2008-UKAS-EN-44-P-20 Jun 13

**Certificate of Registration**

**Intertek**

This is to certify that the environmental management system of

**AI Dawlia 21 for Producing Coloring Aluminium Profiles**

Piece 576,  
Third Industrial Zone,  
6<sup>th</sup> October City,  
Egypt

has been assessed and registered by Intertek as conforming to the requirements of:

**ISO 14001:2004**

The environmental management system is applicable to the management of the environmental aspects related to:

Whole sales of coated aluminium.

Certificate Number:	16407
Issue Date:	4 <sup>th</sup> December 2013
Original Issue Date:	1 <sup>st</sup> December 2010
Expiry Date:	30 <sup>th</sup> November 2016



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CT-ISO 14001:2004-UKAS-EN-44-P-20 Jun 13

**Certificate of Registration**

**Intertek**

This is to certify that the occupational health and safety management system of

**AI Dawlia 21 for Producing Coloring Aluminium Profiles**

Piece 576,  
Third Industrial Zone,  
6<sup>th</sup> October City,  
Egypt


has been assessed and registered by Intertek as conforming to the requirements of:

**OHSAS 18001:2007**

The occupational health and safety management system is applicable to the management of occupational health and safety risks associated with:

Whole sales of coated aluminium.

Certificate Number:	16407
Issue Date:	4 <sup>th</sup> December 2013
Original Issue Date:	1 <sup>st</sup> December 2010
Expiry Date:	30 <sup>th</sup> November 2016



*Authorized Signature: Cain Mottewatt – President, Business Assurance  
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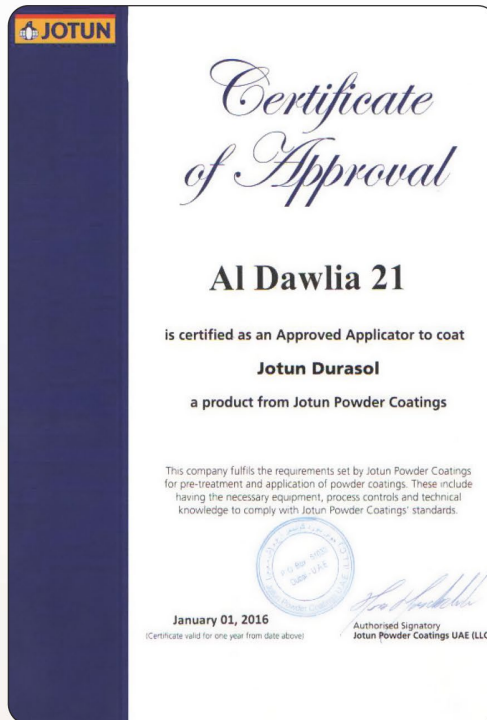
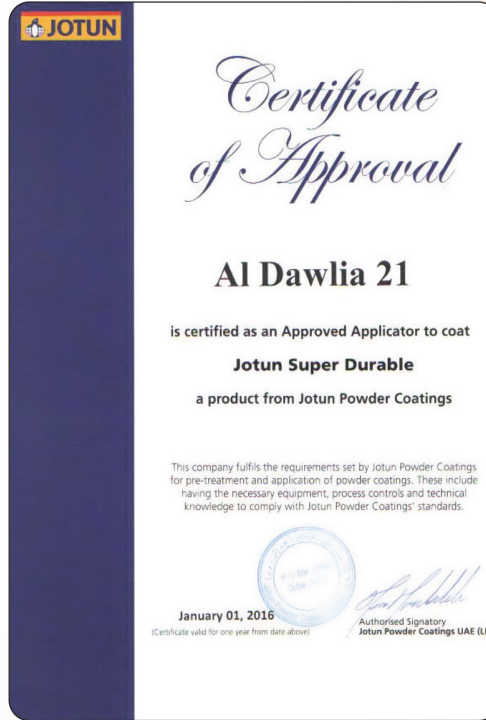
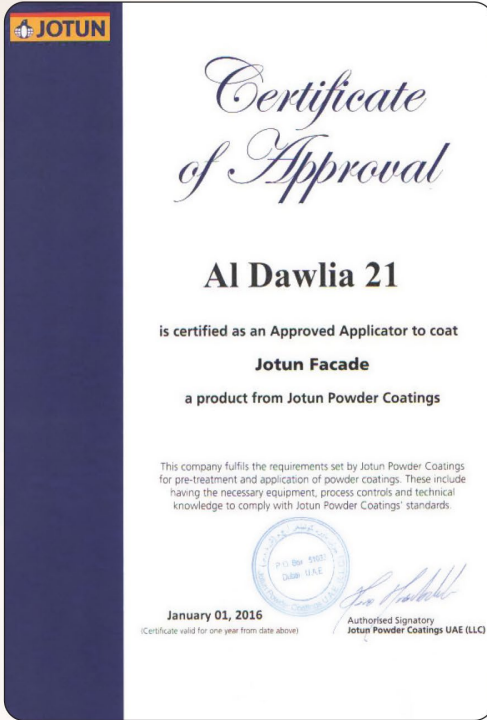
The certificate remains the property of Intertek, to whom it must be returned upon request.

CT-OHSAS 18001:2007-UKAS-EN-44-P-20 Jun 13

**VOLCANO 44**

**ALCEO Systems**

**Dawlia 21**



**Authorization  
to use the quality sign**



This is to certify that  
**DAWLIA21 FOR PRODUCING COLORED ALUMINUM 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

*Josef Schoppig*  
Josef Schoppig  
AC-Fiduciaire SA



Mailing address:  
QUALICOAT, P.O. Box 1507, CH-8027 Zurich  
Domicile:  
QUALICOAT c/o AC-Fiduciaire SA, Todstrasse 47, CH-8002 Zurich

Phone: +41 (0)43 305 09 70/79  
Fax: +41 (0)43 305 09 98  
E-mail: info@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 authorised 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

*Josef Schoppig*  
Josef Schoppig  
General Secretary

*Juan A. Bernabé*  
Juan A. Bernabé  
QUALIDECO Committee

QUALIDECO c/o QUALICOAT, P.O. Box 1507, CH-8027 Zurich - Domicile: Todstrasse 47, 8002 Zurich (Switzerland)  
Tel: +41 43 305 09 70/79 - Fax: +41 43 305 09 98 - E-Mail: info@qualideco.eu - Internet: www.qualideco.eu



AkzoNobel

Interpon D Approved Applicator

**Interpon D1000 Series**

**Al Dawlia 21 for producing Colored  
Aluminum Profiles**  
6<sup>th</sup> October City, 3<sup>rd</sup> 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

*Esmeralda Maria Malo*

Esmeralda Maria Malo  
Business Development Manager  
Middle East and Africa

Date: 16/02/2016

Certification number N° EGY05D1

AkzoNobel Powder Coatings SAE



AkzoNobel

Interpon D Approved Applicator

**Interpon D2000 Series**

**Al Dawlia 21 for producing Colored  
Aluminum Profiles**  
6<sup>th</sup> October City, 3<sup>rd</sup> 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

*Esmeralda Maria Malo*

Esmeralda Maria Malo  
Business Development Manager  
Middle East and Africa

Date: 16/02/2016

Certification number N° EGY05D2

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 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 dot être monté à l'intérieur de la maçonnerie.

### ÉTANCHEITÉ:

L'étanchéité est assuré 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.

### OPENNING 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.

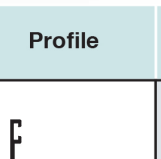
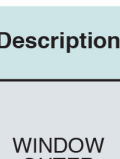

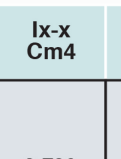
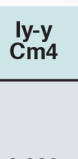


### GLAZING:

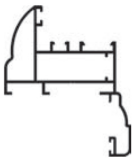
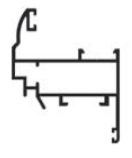
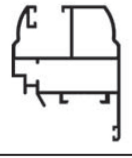
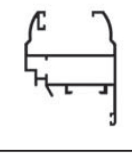
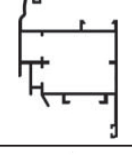
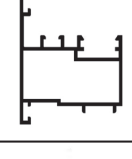
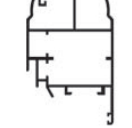
Simple or insulator of 6 with 22 mm maintained by joints in EPDM and a clipped panel a height minimum of 20mm (bottom of feuillure). The panel must obligatorily be with dimensions interior of construction

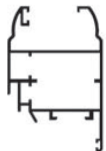
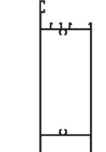

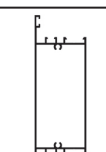
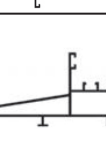

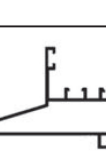
### SEALING:

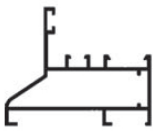
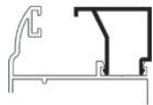
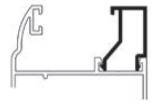




The sealing is guaranteed by a central sealing gasket in EPDM-ASTM tested. A second barrier, constituted by a sealing gasket, is on the flap by the inside overlap. Glazing is done with EPDM sealing gasket or silicone.








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

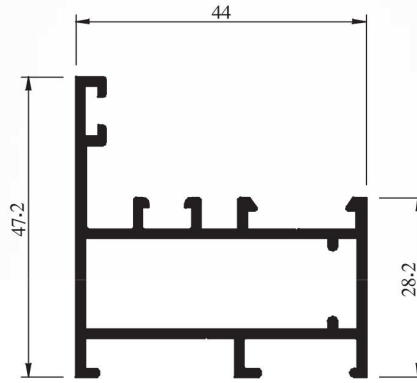
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 44100		WINDOW OUTER FRAME	0.714	3.739	6.888
DW 44101		WINDOW OUTER WITH LARGE ARCHITRAVE	0.922	18.423	10.605
DW 44102		WINDOW OUTER WITH ARCHITRAVE	0.854	10.245	9.636
DW 44103		WINDOW OUTER FRAME WITH ROUND ARCHITRAVE	0.999	15.016	15.769
DW 44104		WINDOW OUTER FRAME WITH LARGE ROUND ARCHITRAVE	1.051	24.749	16.946
DW 44105		WINDOW ROUND OUTER FRAME	0.920	5.283	12.755
DW 44106		WINDOW OUTER OUTER FRAME WITH LARGE ARCHITRAVE	1.249	27.559	23.653

Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 44107		WINDOW ROUND OUTER FRAME WITH ARCHITRAVE	1.154	15.803	20.957
DW 44200		WINDOW SASH	0.883	6.703	11.138
DW 44201		FULL WINDOW SASH SINGLE GLAZING	1.090	10.761	12.530
DW 44202		FULL WINDOW SASH DOUBLE GLAZING	0.962	8.714	12.501
DW 44203		LARGE WINDOW SASH	1.097	15.322	14.822
DW 44204		DOUBLE LEAF ADAPTOR	0.781	5.804	7.622
DW 44205		FULL WINDOW LARGE SASH SINGLE GLAZING	1.305	22.646	16.383

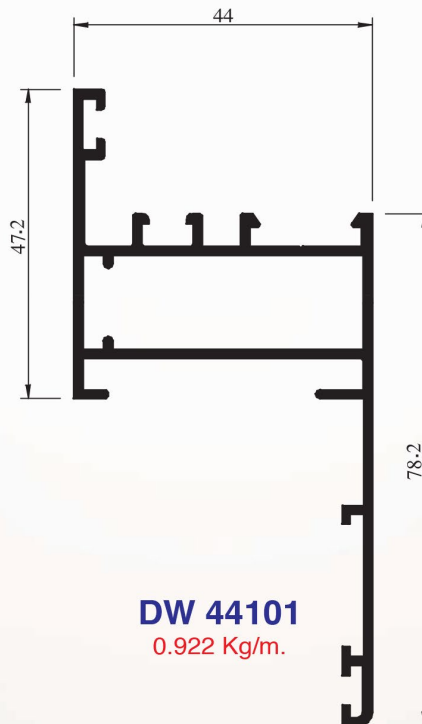
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 44206		FULL WINDOW LARGE SASH DOUBLE GLAZING	1.177	18.843	16.337
DW 44301		DOOR BOTTOM RAIL	1.594	113.055	20.051
DW 44302		TRANSOM	1.039	17.174	10.133
DW 44304		LARGE TRANSOM	1.503	95.392	17.919
DW 44305		FIXED 100mm	1.187	4.901	37.616
DW 44306		FIXED 80mm	0.936	4.357	20.128
DW 44307		FIXED 75 mm	0.906	4.295	17.259

Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 44308		FIXED 60 mm	0.805	4.080	10.566
DW 44400		SINGLE GLAZING BEED	0.258		
DW 44401		DOUBLE GLAZING BEED	0.213		
DW 12300		DECORATIVE ARCHITRAVE 50 mm	0.369		
DW 12301		DECORATIVE ARCHITRAVE 34 mm	0.295		
DW 12302		ARCHITRAVE FLAT 50 mm	0.307		
DW 12303		ARCHITRAVE FLAT 34 mm	0.237		

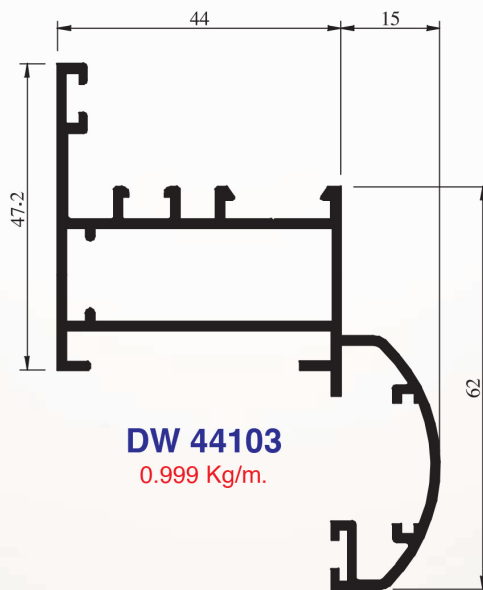
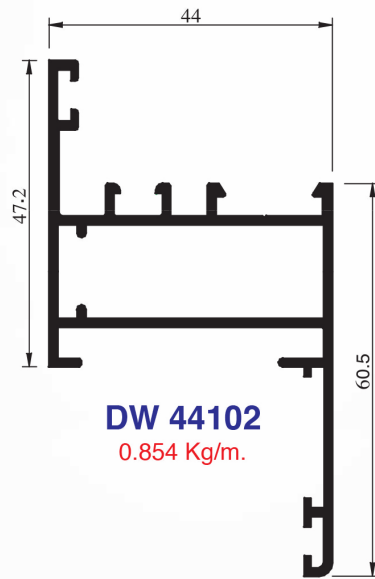
Profile Code No.	Profile	Description	Weight Kg / m	Ix-x Cm4	Iy-y Cm4
DW 12304		ARCHITRAVE 50 mm	0.357		
DW 12305		ARCHITRAVE 34 mm	0.280		
DW 12308		ROUND ARCHITRAVE 50 mm	0.365		
DW 12309		ROUND ARCHITRAVE 34 mm	0.298		
DW 12310		CURVED ARCHITRAVE 50 mm	0.355		
DW 12311		CURVED ARCHITRAVE 34 mm	0.273		
DW 44500		CREMONE PROFILE	0.175		

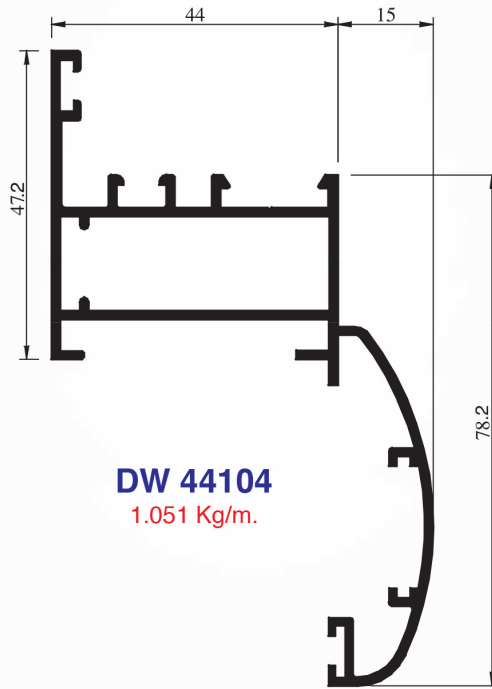


**DW 44100**  
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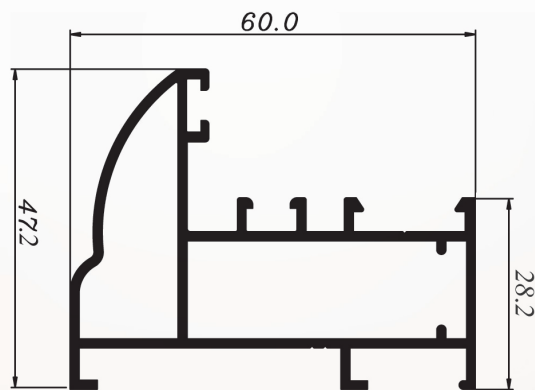


**DW 44101**  
0.922 Kg/m.

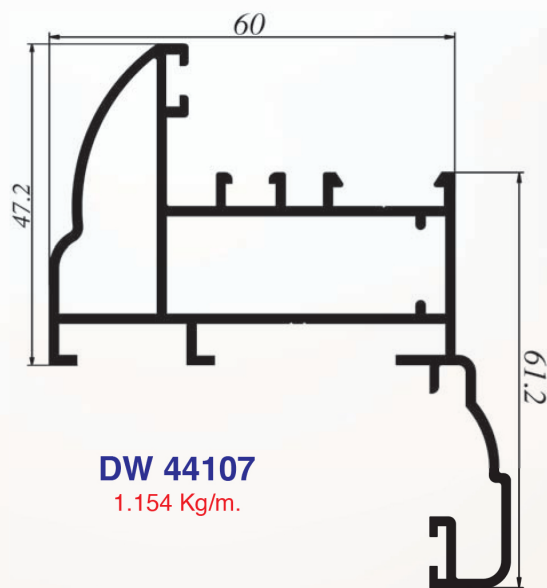
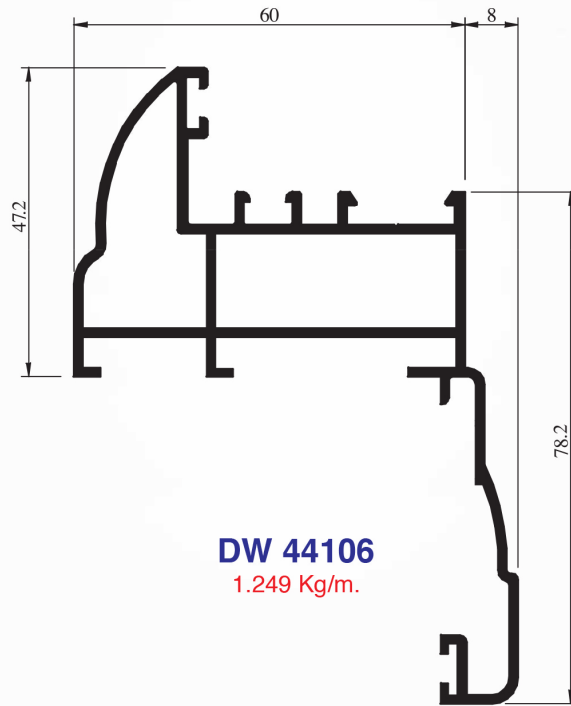


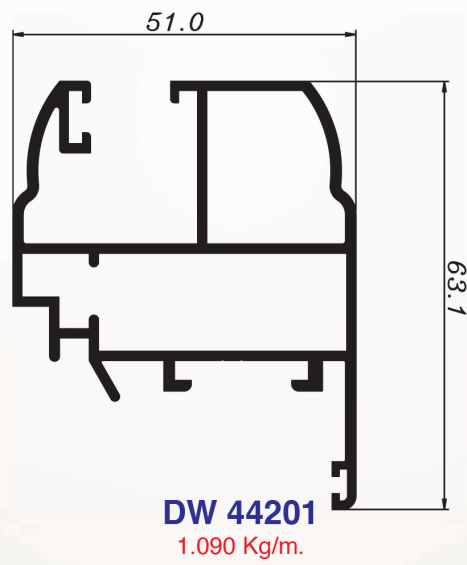
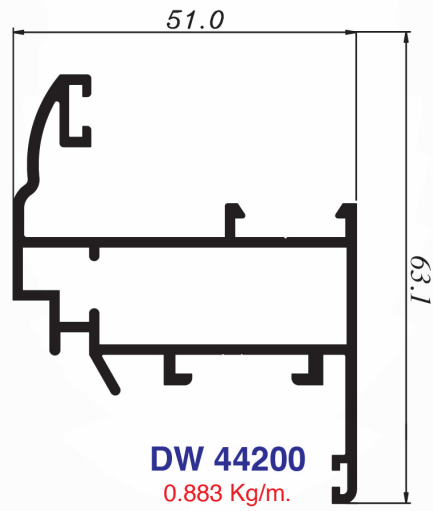


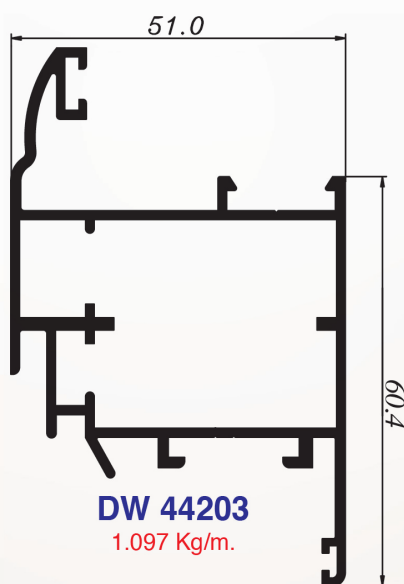
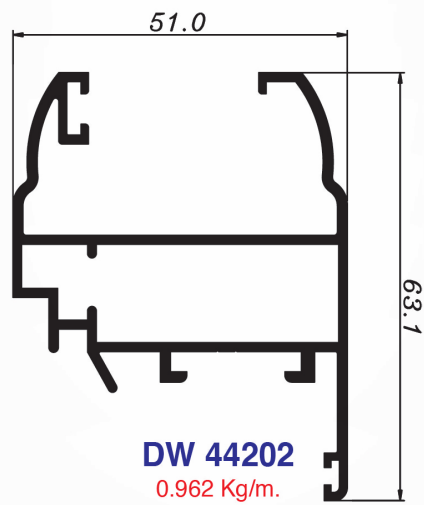
**DW 44104**  
1.051 Kg/m.

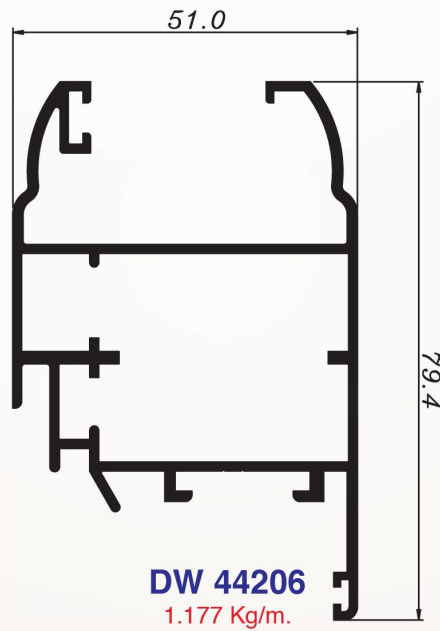
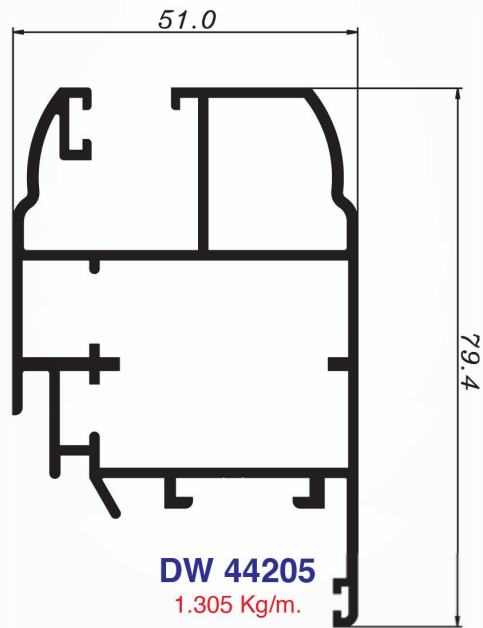


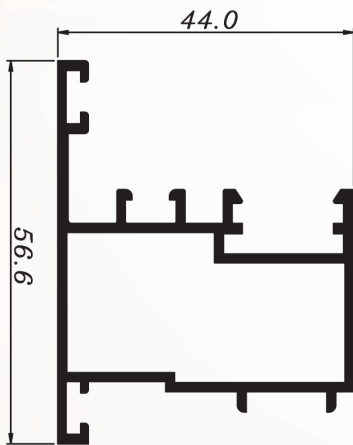
**DW 44105**  
0.920 Kg/m.



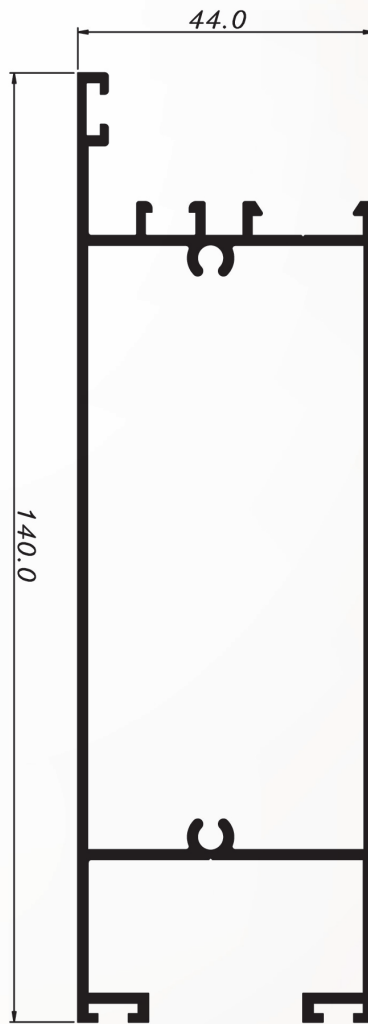








**DW 44204**  
0.781 Kg/m.

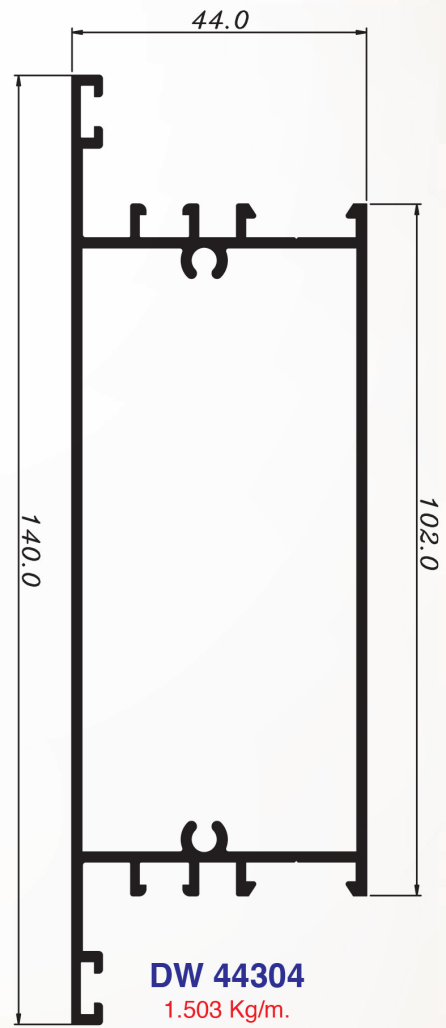
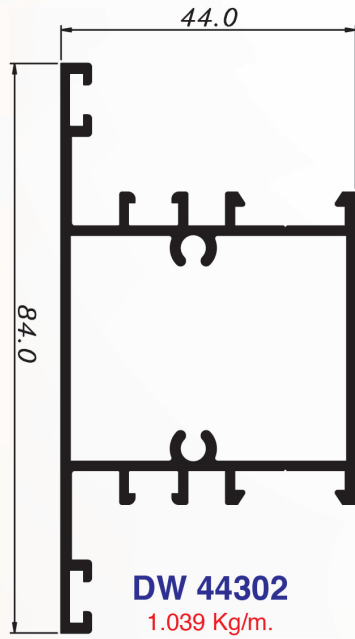


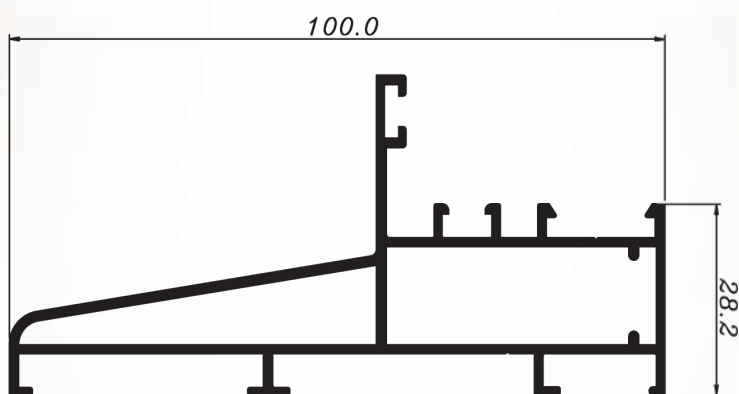
**DW 44301**  
1.594 Kg/m.

ALCEO Systems

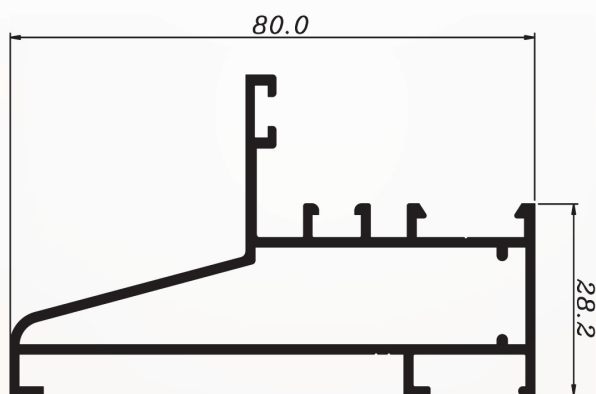
VOLCANO 44

**Dawlia<sup>21</sup>**

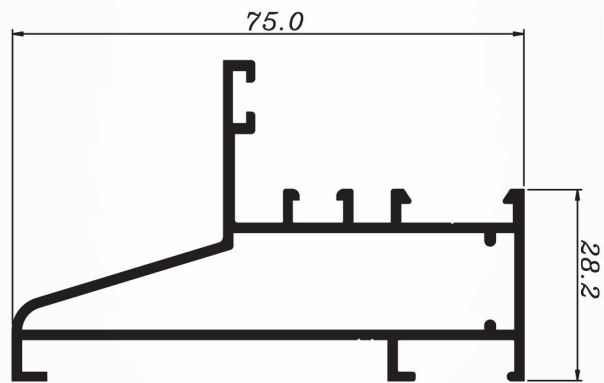




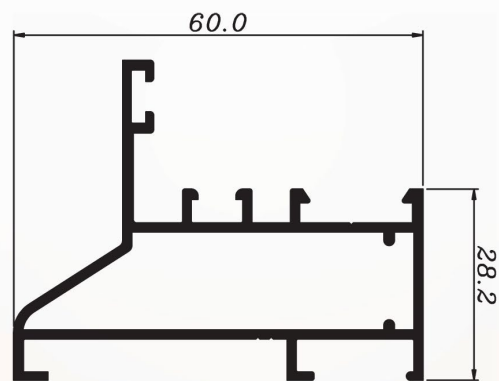
**DW 44305**  
1.187 Kg/m.



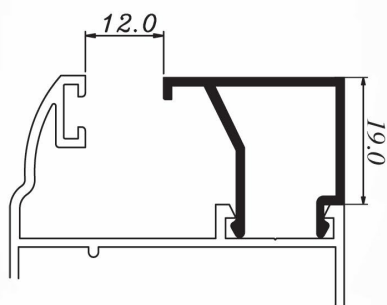
**DW 44306**  
0.936 Kg/m.



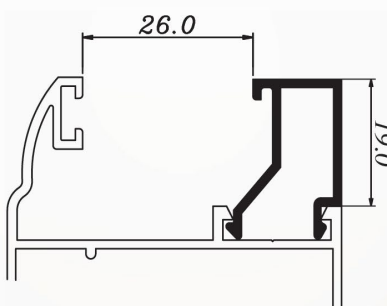
**DW 44307**  
0.906 Kg/m.



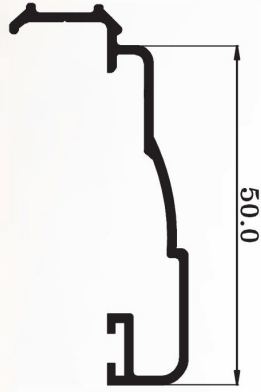
**DW 44308**  
0.805 Kg/m.



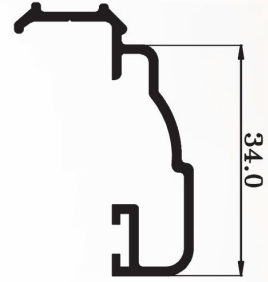
**DW 44400**  
0.258 Kg/m.



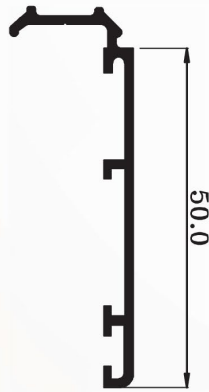
**DW 44401**  
0.213 Kg/m.



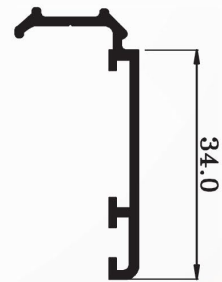
**DW 12300**  
0.369 Kg/m.



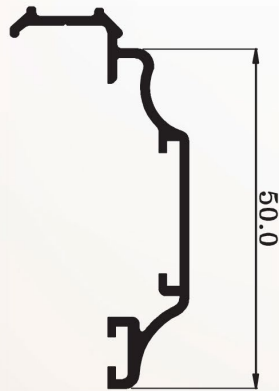
**DW 12301**  
0.295 Kg/m.



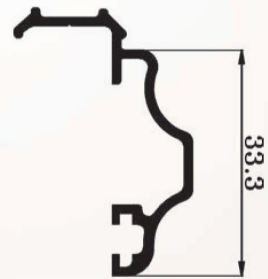
**DW 12302**  
0.307 Kg/m.



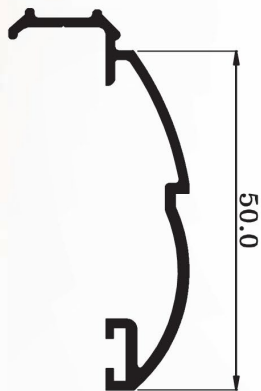
**DW 12303**  
0.237 Kg/m.



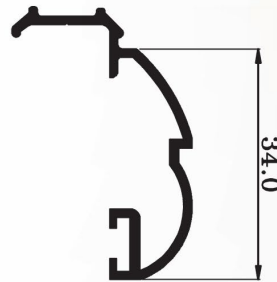
**DW 12304**  
0.357 Kg/m.



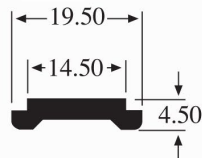
**DW 12305**  
0.280 Kg/m.



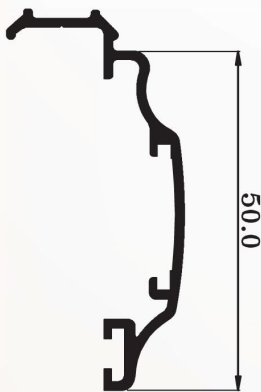
**DW 12308**  
0.365 Kg/m.



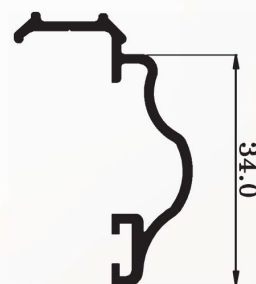
**DW 12309**  
0.298 Kg/m.



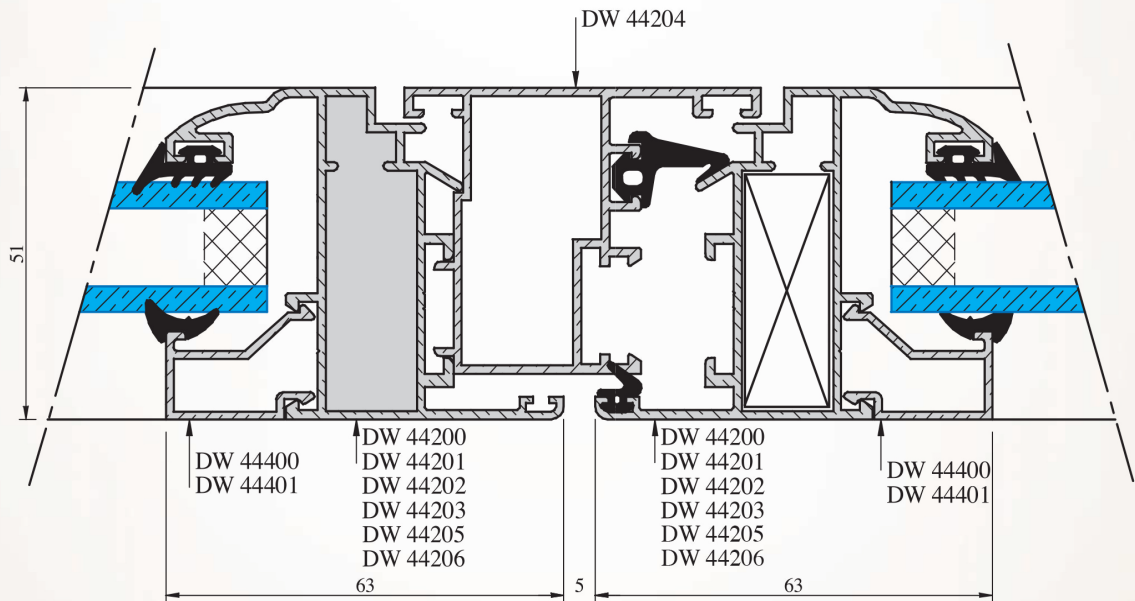
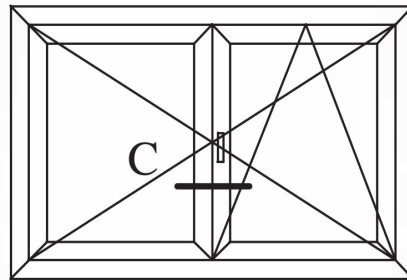
**DW 44500**  
0.175 Kg/m.



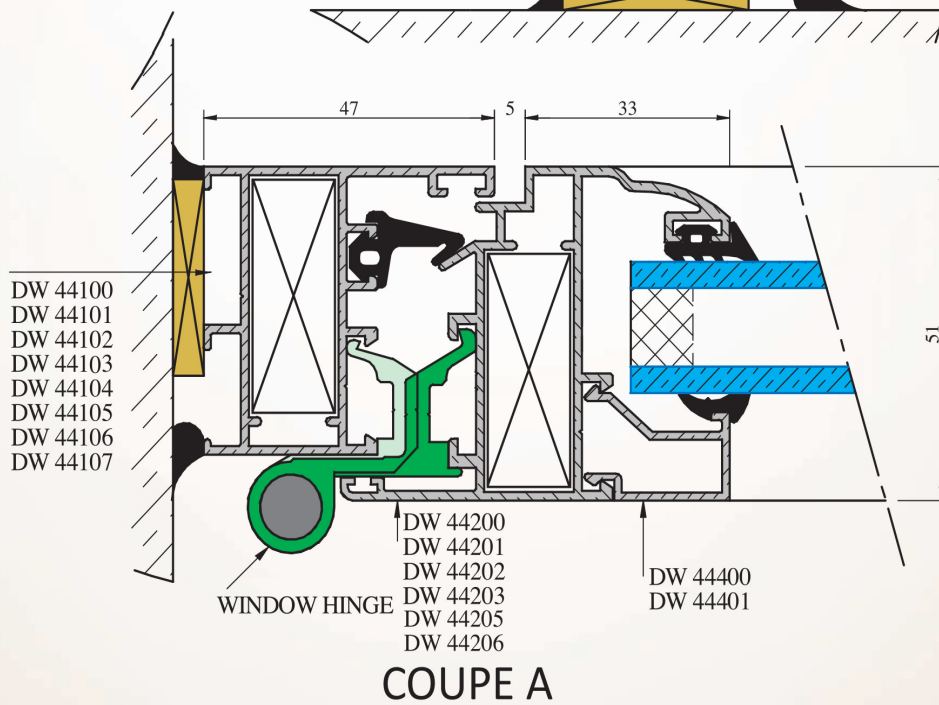
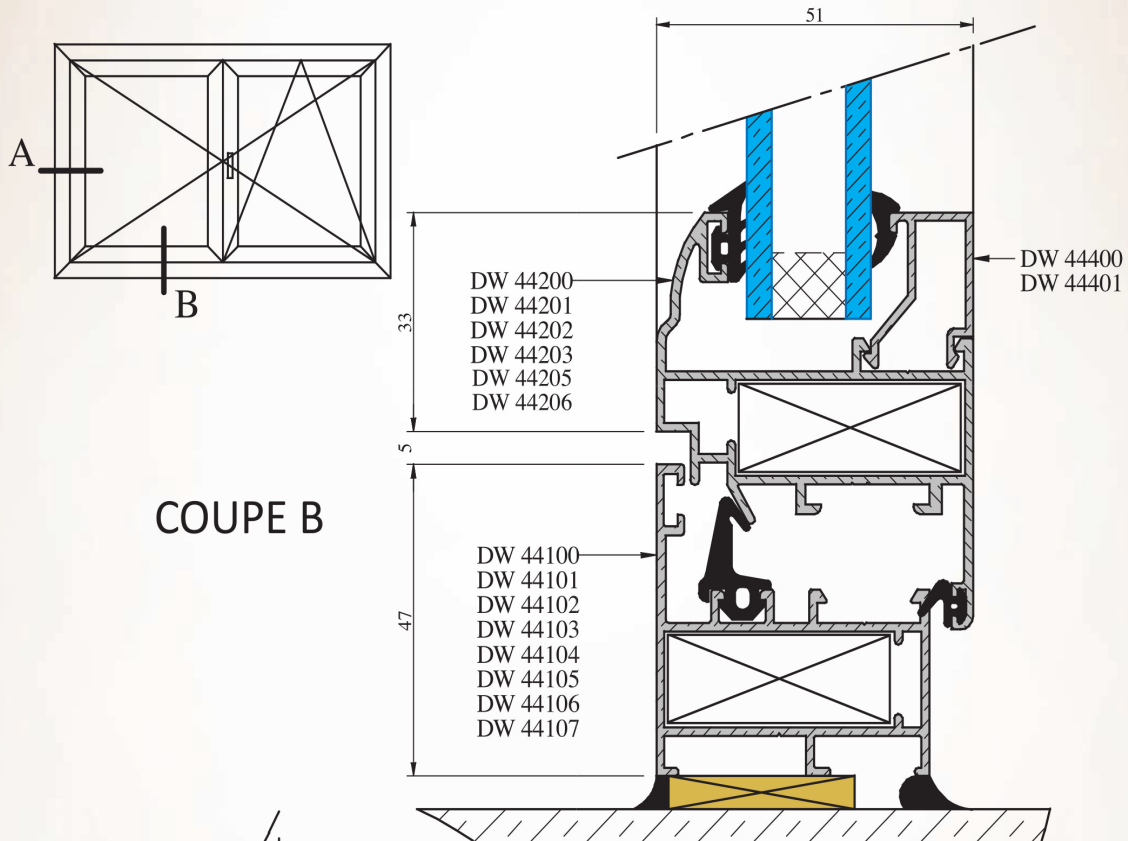
**DW 12310**  
0.355 Kg/m.



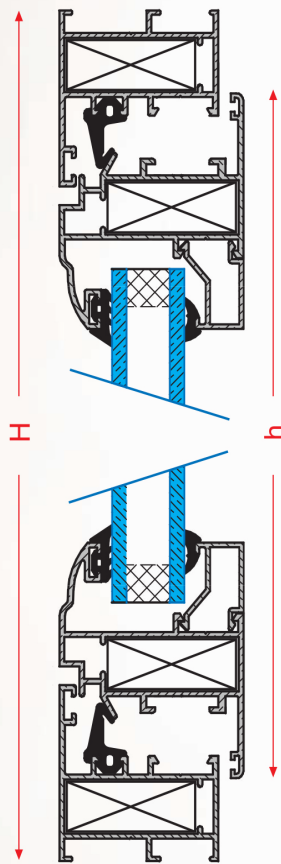
**DW 12311**  
0.273 Kg/m.



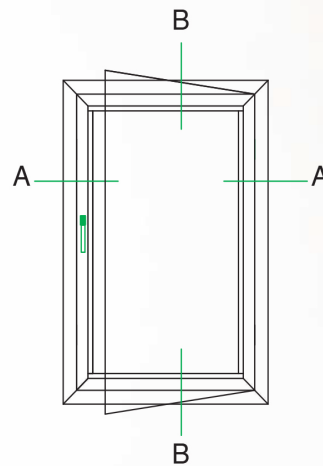
**COUPE C**



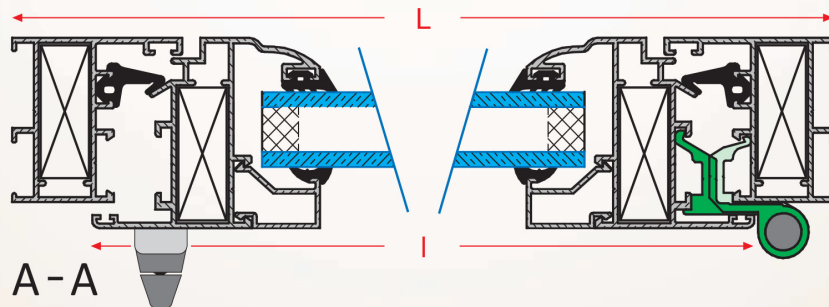
## Fenêtre 1 Vantail



COUPE B-B

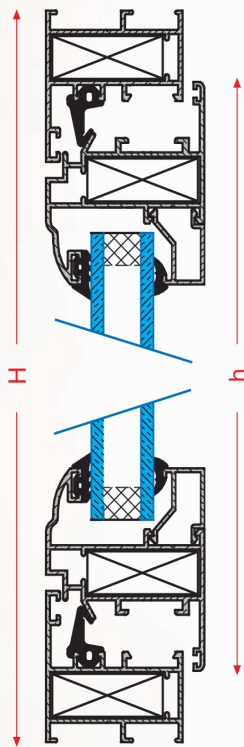


CUTTING LIST			
Shape	PROF. NO	QTY.	CUTTING LENGTH (mm)
	DW 44100	2	L
		2	H
	DW 44200	2	L - 45
		2	H - 45
	DW 44401	2	L - 132
		2	H - 170
GLASS		1	L - 142
			H - 142

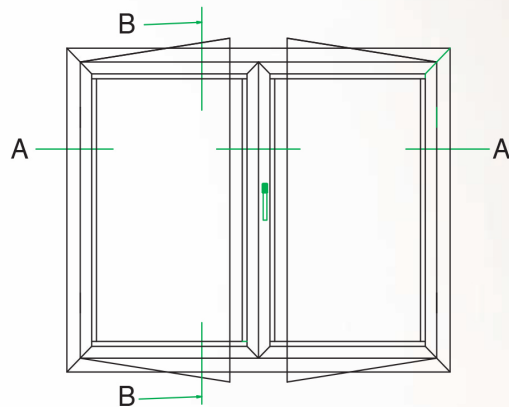






COUPE A-A

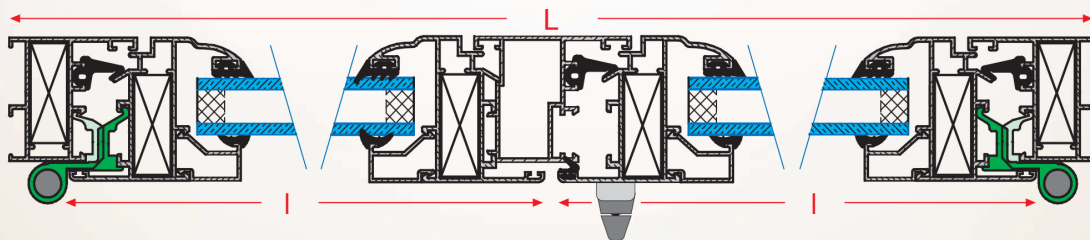
## Fenêtre 2 Vantaux



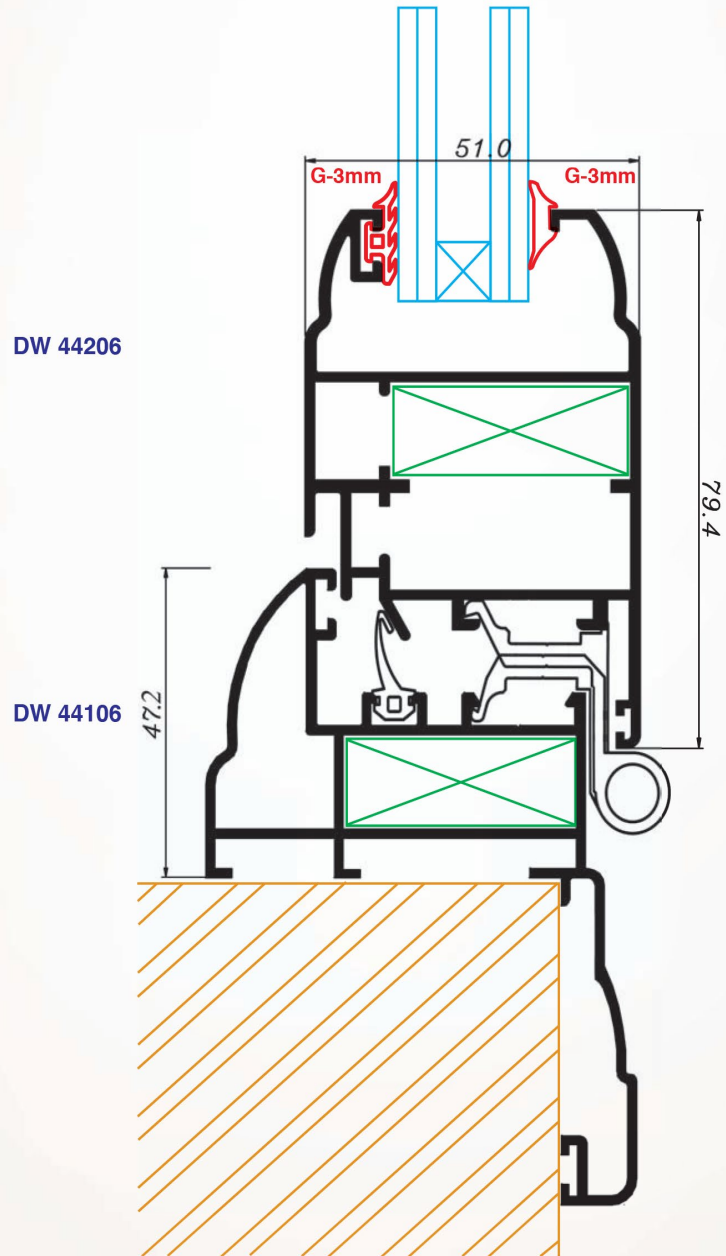
COUPE B-B

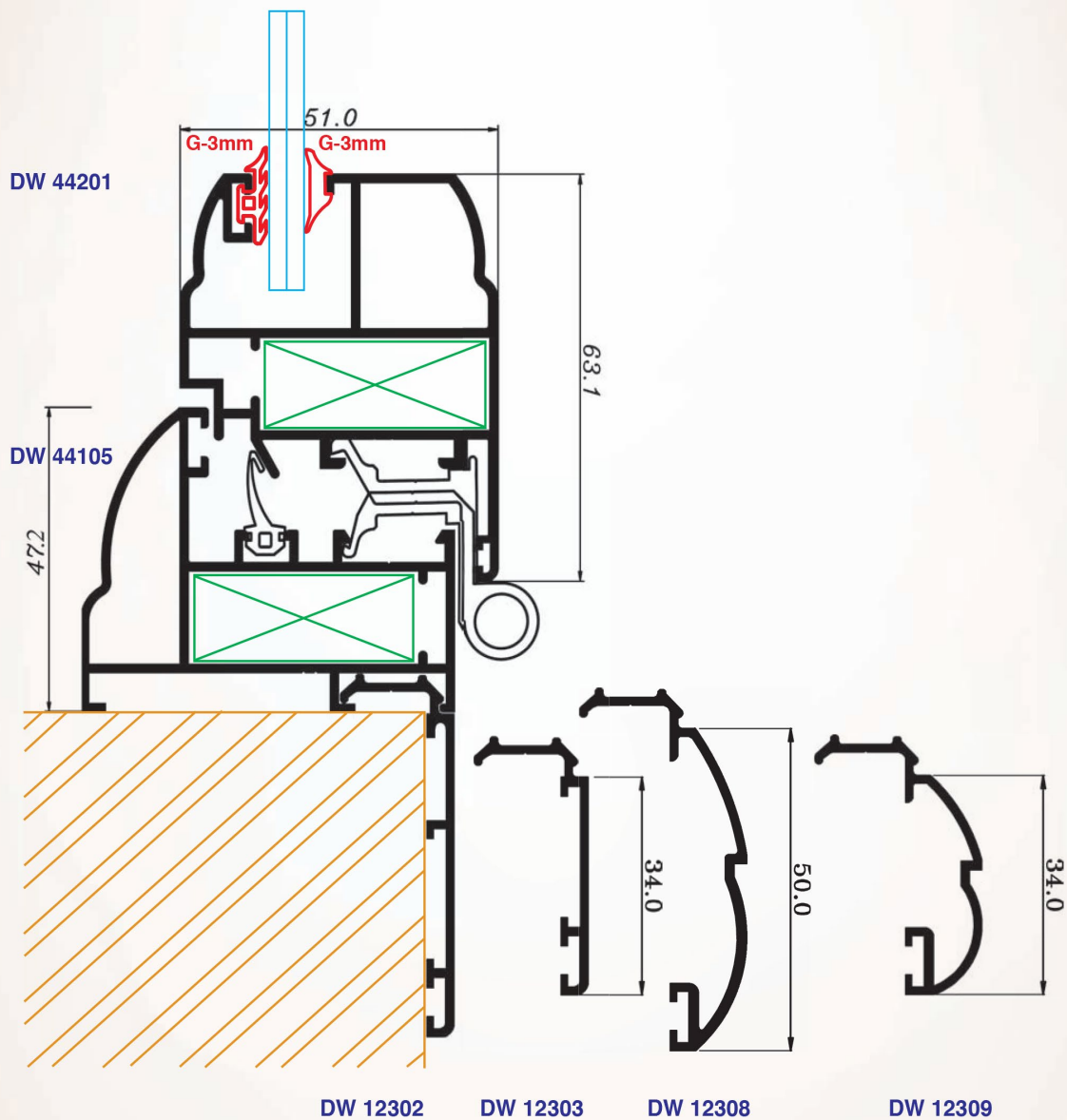


CUTTING LIST			
Shape	PROF. NO	QTY.	CUTTING LENGTH (mm)
	DW 44100	2	L
		2	H
	DW 44200	4	$\frac{L - 52}{2}$
		4	H - 45
	DW 44204	1	H - 104
	DW 44401	4	$\frac{L - 303}{2}$
		4	H - 170
GLASS		2	$\frac{L - 245}{2}$
			H - 142



COUPE A-A





ALCANTARA Systems

VOLCANO 44

Dawlia 21

