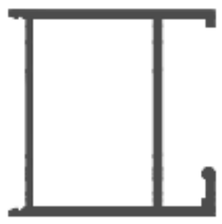
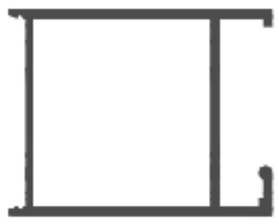
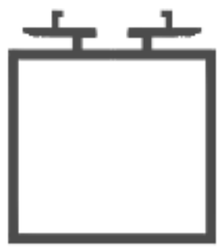
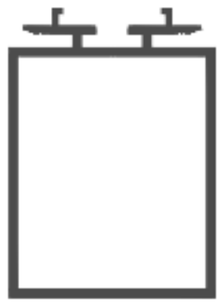
ALBIO 102

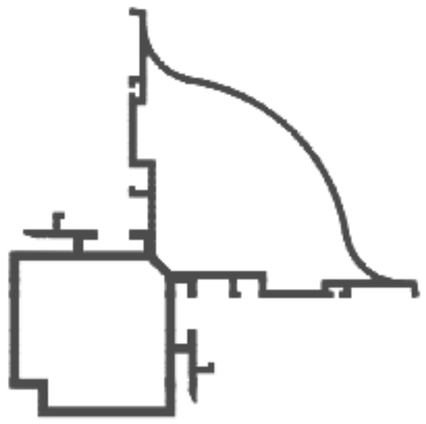
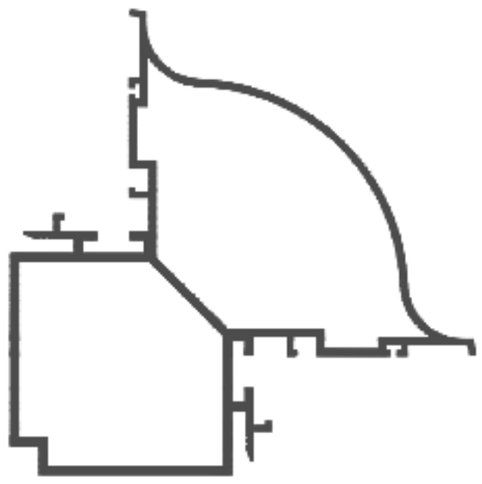
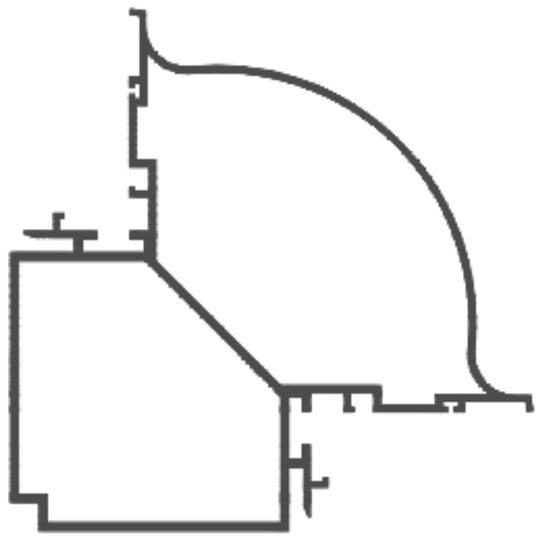
CURTAIN-WALL SYSTEM

EXALCO

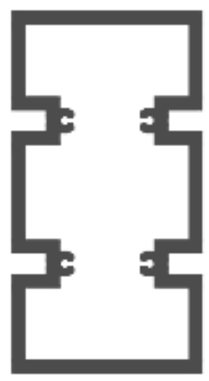
ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-000		2126 gr/m	2	6
102-001		1849 gr/m	2	6
102-002		2124 gr/m	2	6
102-003		2394 gr/m	2	6
102-004		1930 gr/m	2	6
102-005		2200 gr/m	2	6
102-006		2470 gr/m	2	6
102-007		1102 gr/m	4	6
102-008		272 gr/m	10	6
102-009		219 gr/m	10	6

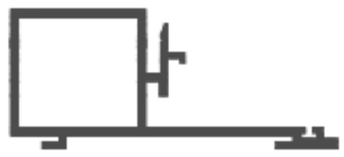
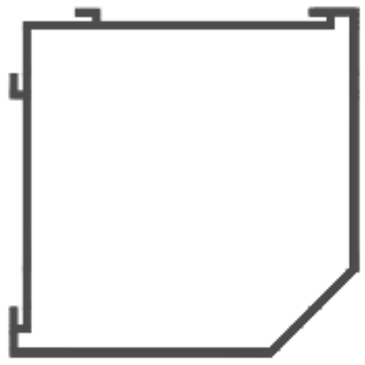
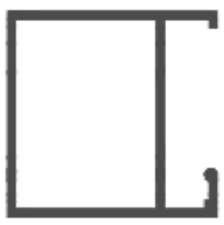
ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

ΠΡΟΦΙΛ **PROFILES**	**ΒΑΡΟΣ** **WEIGHT**	**ΒΕΡΓΕΣ ανα ΔΕΜΑ** **BARS per BUNDLE**	**ΜΗΚΟΣ** **LENGHT**
102-010 	3553 gr/m	1	6
102-011	335 gr/m	10	6
102-012 	4467 gr/m	1	6
102-013 	5427 gr/m	1	6
102-014	2109 gr/m	2	6
102-015	372 gr/m	10	6
102-016	2141 gr/m	1	6

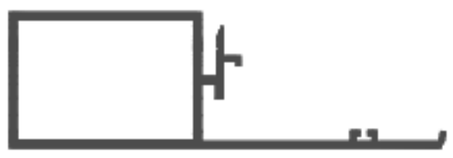
ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-017		1055 gr/m	4	6
102-018		951 gr/m	4	6
102-019		622 gr/m	4	6
102-020		1328 gr/m	4	6
102-021		731 gr/m	4	6
102-022		62 gr/m	30	6
102-023		1007 gr/m	4	6
102-024		1166 gr/m	4	6
102-025		2590 gr/m	1	6
102-026		2781 gr/m	1	6
102-027		5248 gr/m	1	6

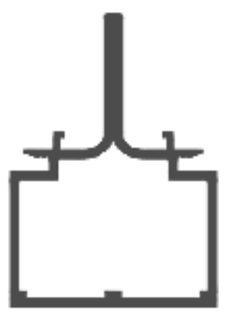
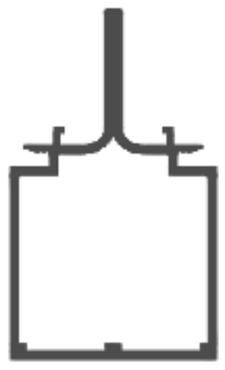
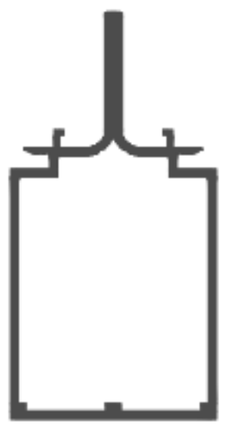
ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-028		1975 gr/m	2	6
102-029		2888 gr/m	1	6
102-030		4245 gr/m	1	6
102-031		1491 gr/m	2	6
102-032		1167 gr/m	4	6
102-033		1504 gr/m	4	6
102-034		1658 gr/m	4	6
102-035		3064 gr/m	1	6
102-036		2020 gr/m	2	6

ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

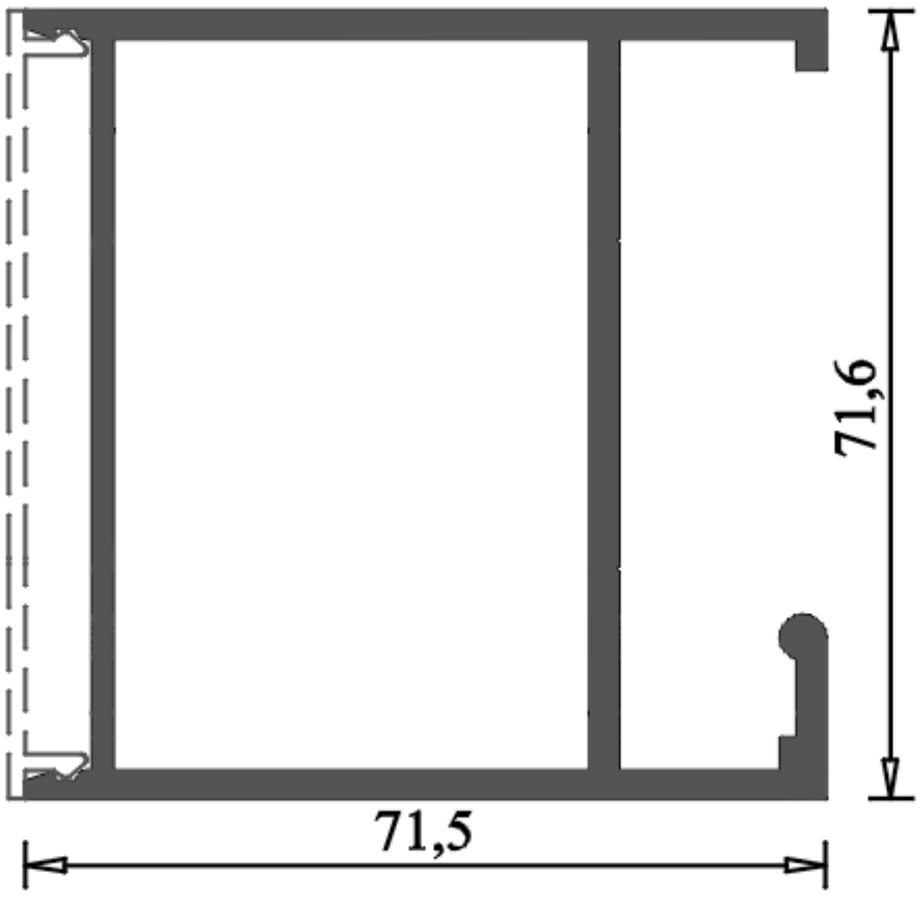
ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-037		2290 gr/m	2	6
102-038		2559 gr/m	2	6
102-039		1155 gr/m	4	6
102-040		2455 gr/m	2	6
102-041		2184 gr/m	2	6
102-042		1914 gr/m	2	6
102-043		1234 gr/m	4	6
102-044		1388 gr/m	4	6
102-045		3651 gr/m	1	6
102-046		279 gr/m	12	6
102-048		118 gr/m	30	6
102-049		1042 gr/m	4	6

ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-050		1008 gr/m	4	6
102-051		2549 gr/m	2	6
102-052		2819 gr/m	2	6
102-053		3089 gr/m	2	6
102-054		2072 gr/m	2	6
102-055		1974 gr/m	2	6
102-056		2577 gr/m	2	6

ΣΥΣΚΕΥΑΣΙΑ - ΟΜΑΔΑ / PACKING - GROUP

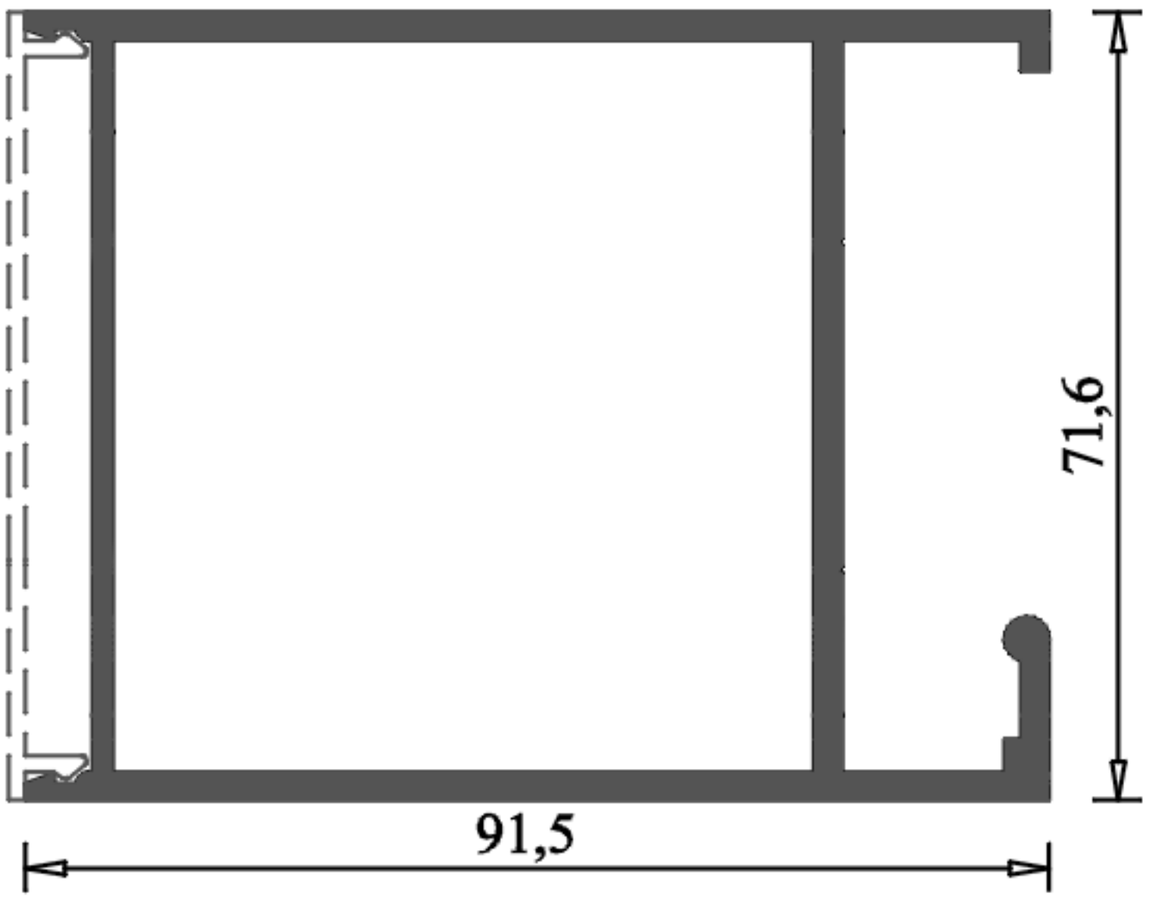
ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT	ΒΕΡΓΕΣ ανα ΔΕΜΑ BARS per BUNDLE	ΜΗΚΟΣ LENGHT
102-059		1462 gr/m	4	6
102-060		1307 gr/m	4	6



ΤΡΑΒΕΡΣΑ
TRANSOM

102-001

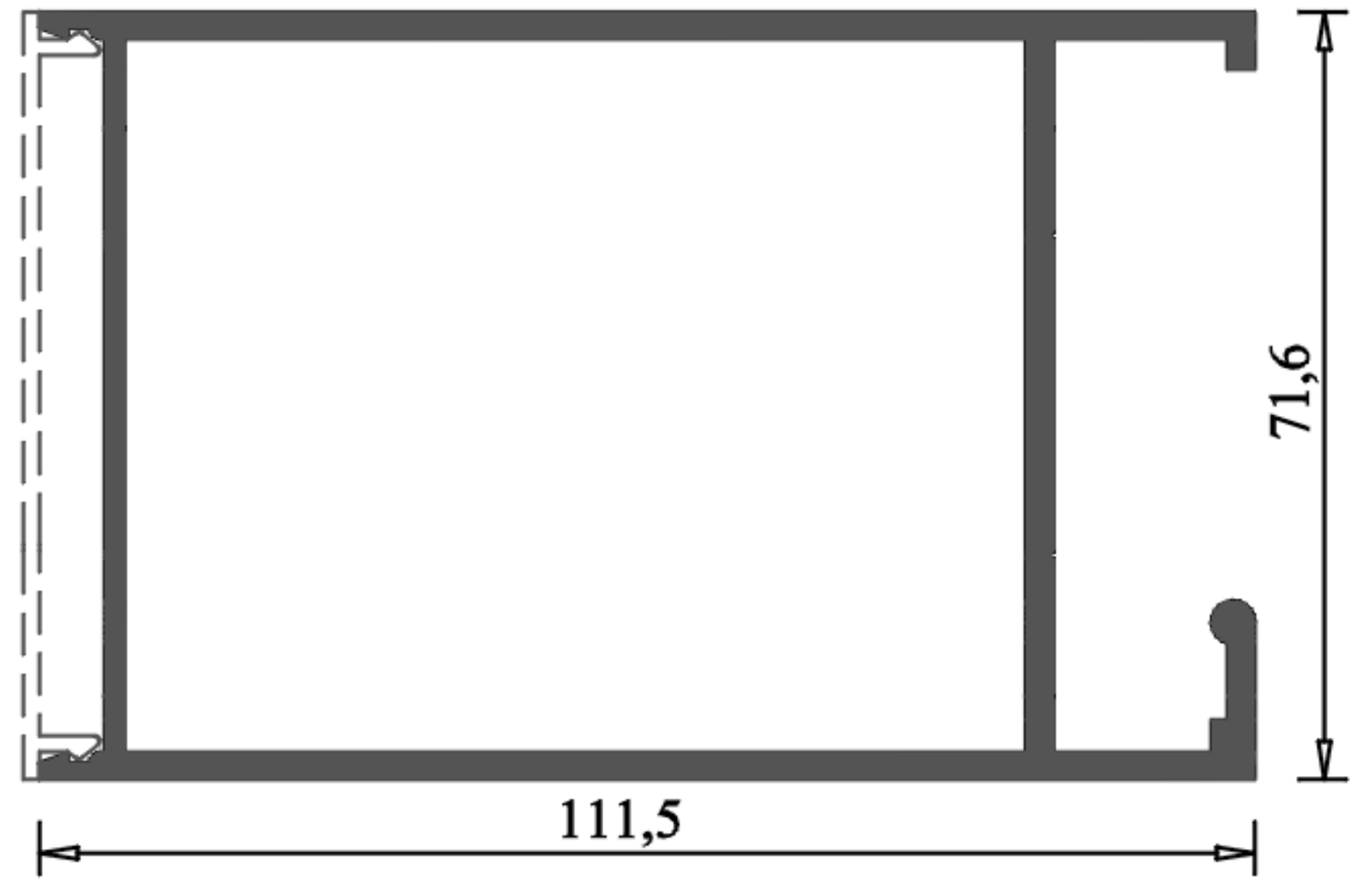
W=1849 gr/m



ΤΡΑΒΕΡΣΑ
TRANSOM

102-002

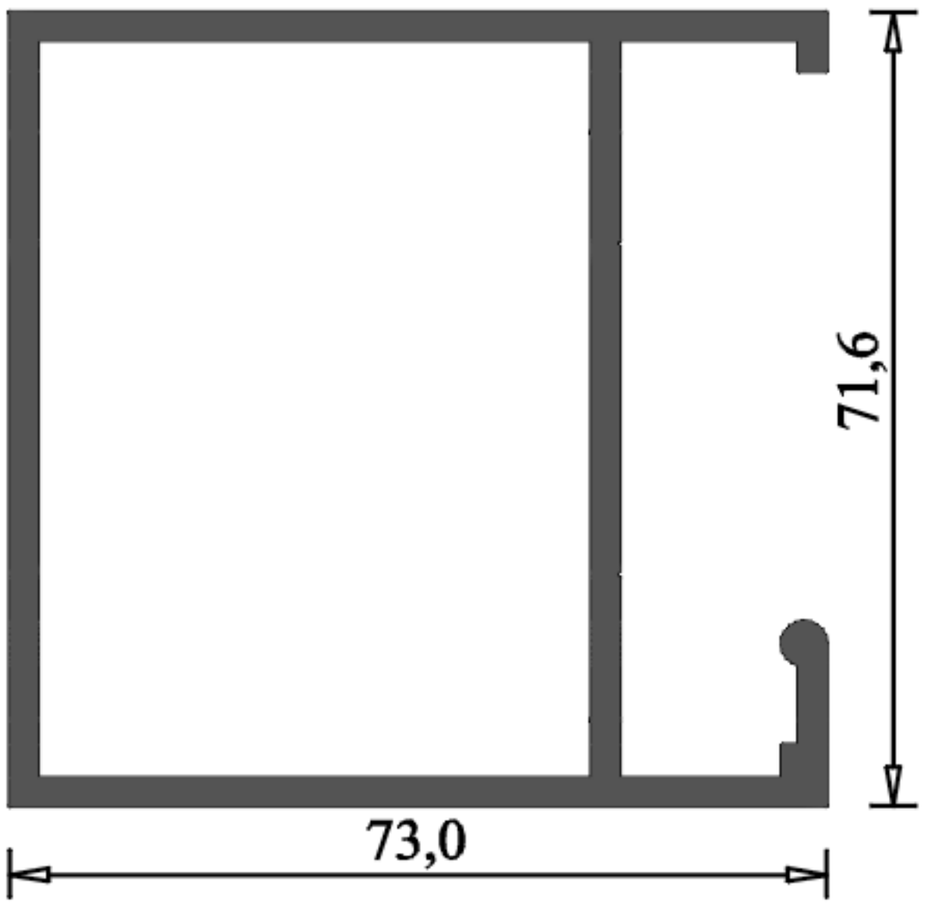
W=2124 gr/m



ΤΡΑΒΕΡΣΑ
TRANSOM

102-003

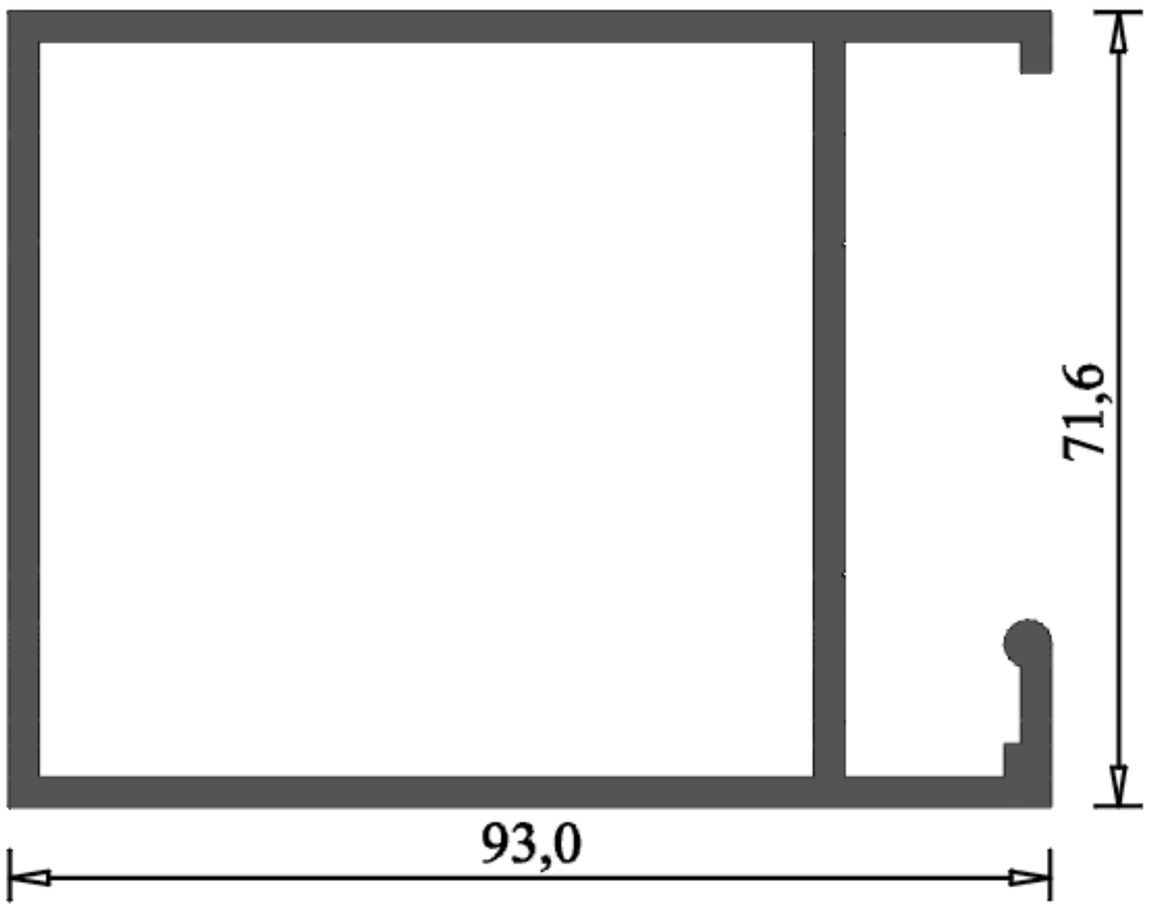
W=2394 gr/m



ΤΡΑΒΕΡΣΑ
TRANSOM

102-036

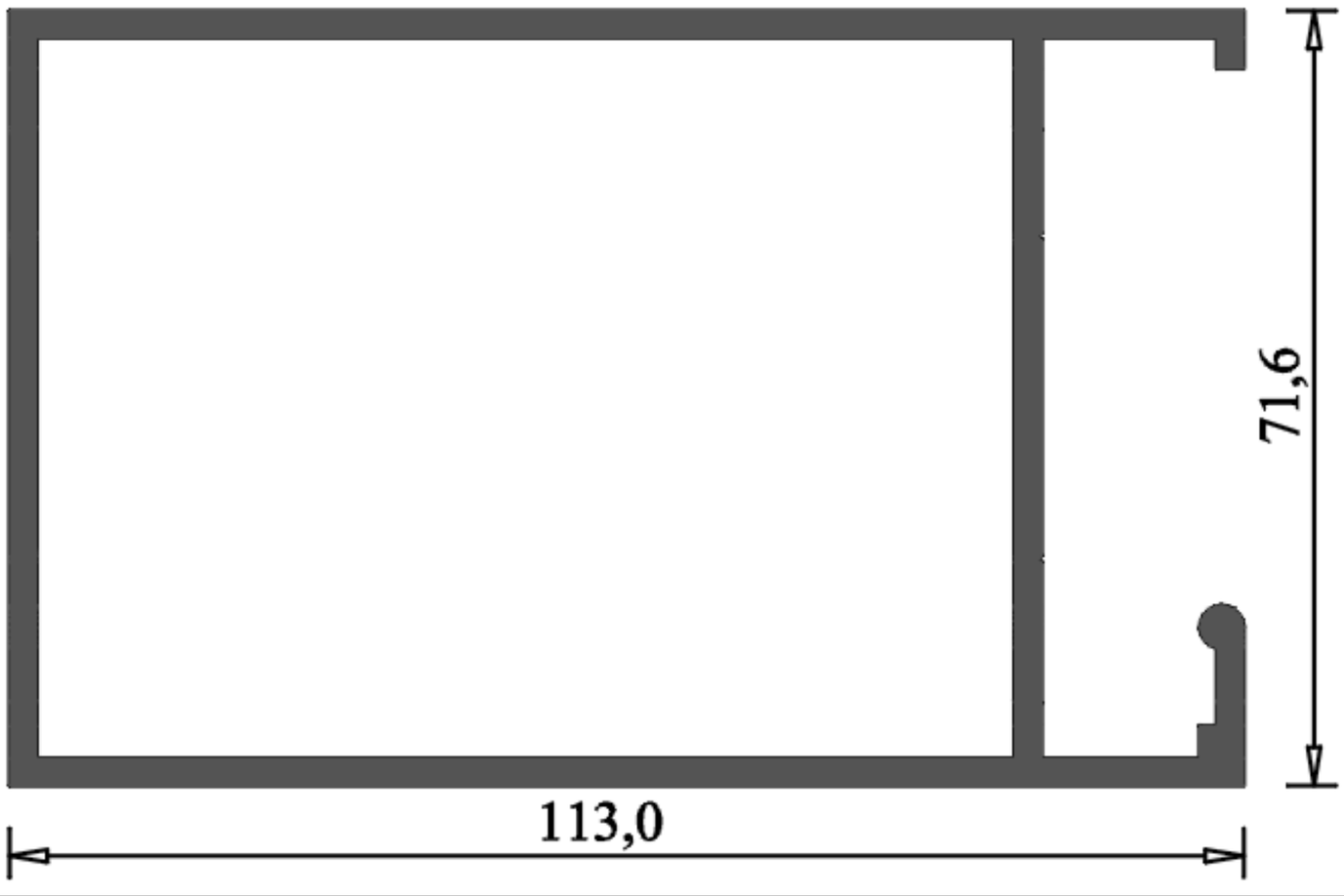
W=2020 gr/m



ΤΡΑΒΕΡΣΑ
TRANSOM

102-037

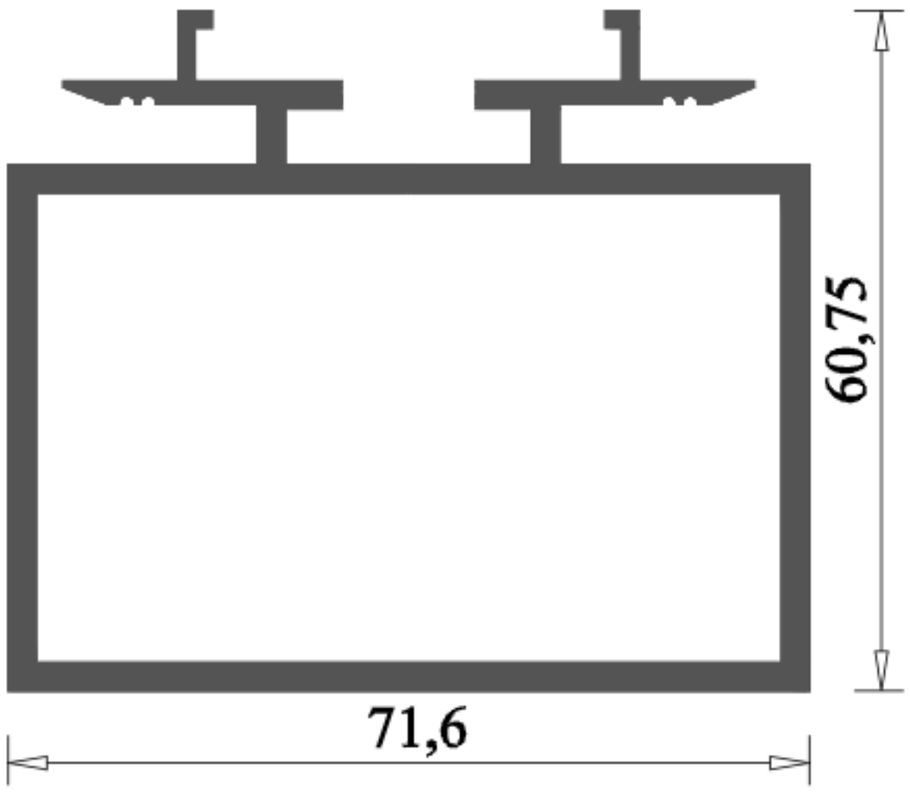
W=2290 gr/m



ΤΡΑΒΕΡΣΑ
TRANSOM

102-038

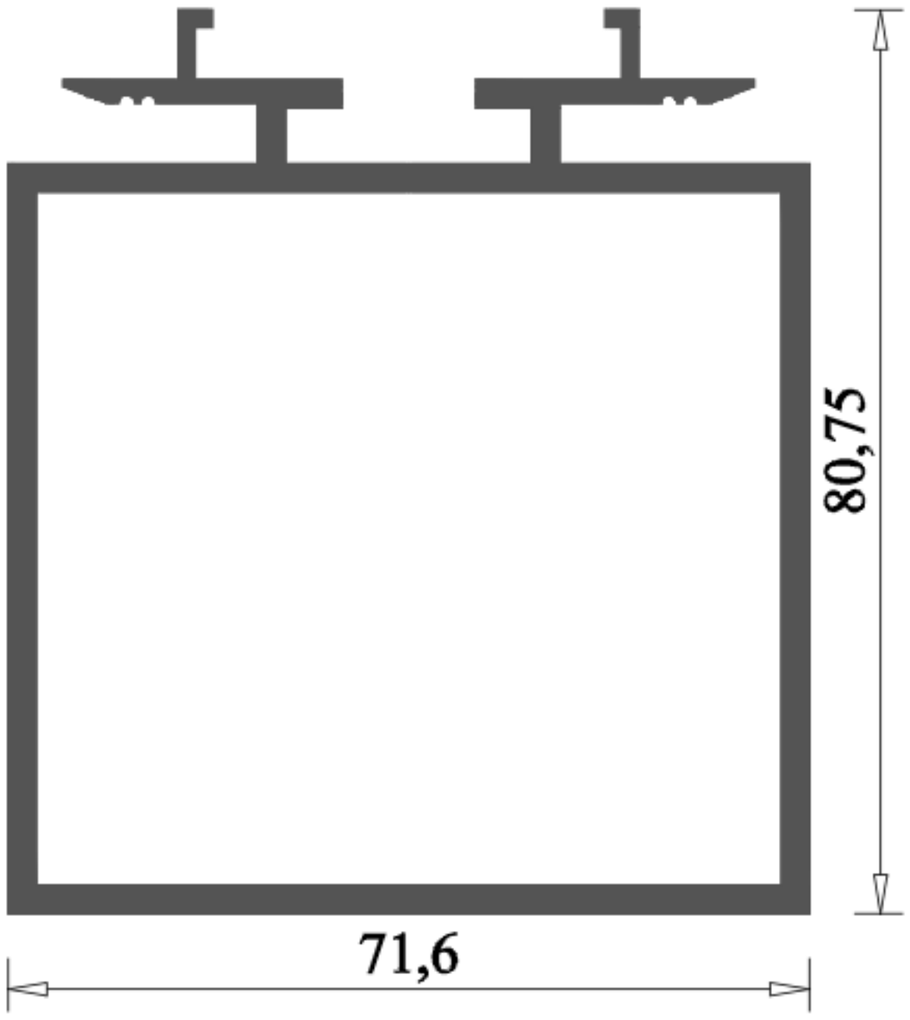
W=2559 gr/m



ΚΟΛΩΝΑ
MULLION

102-004

W=1930 gr/m



ΚΟΛΩΝΑ
MULLION

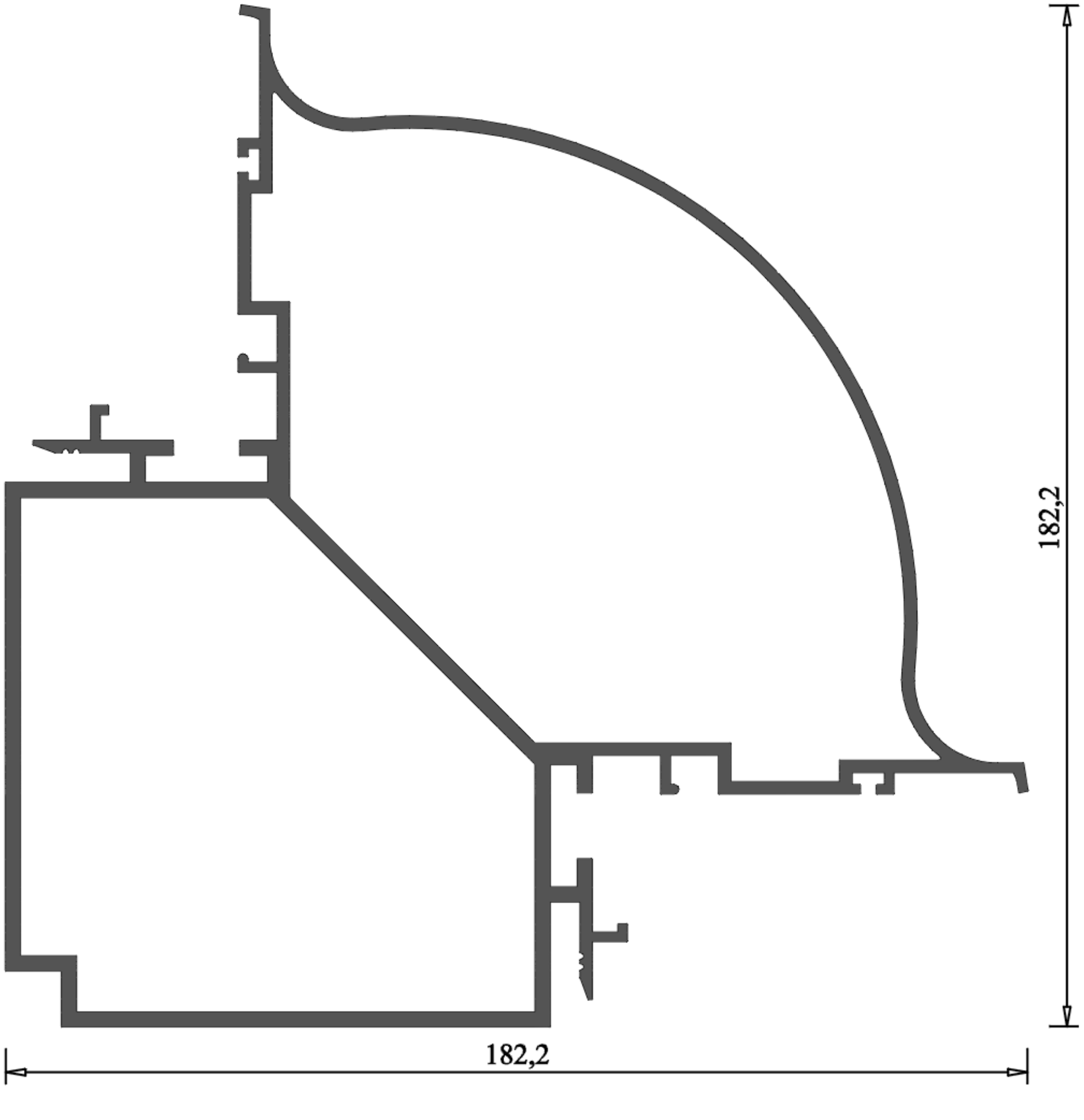
102-005

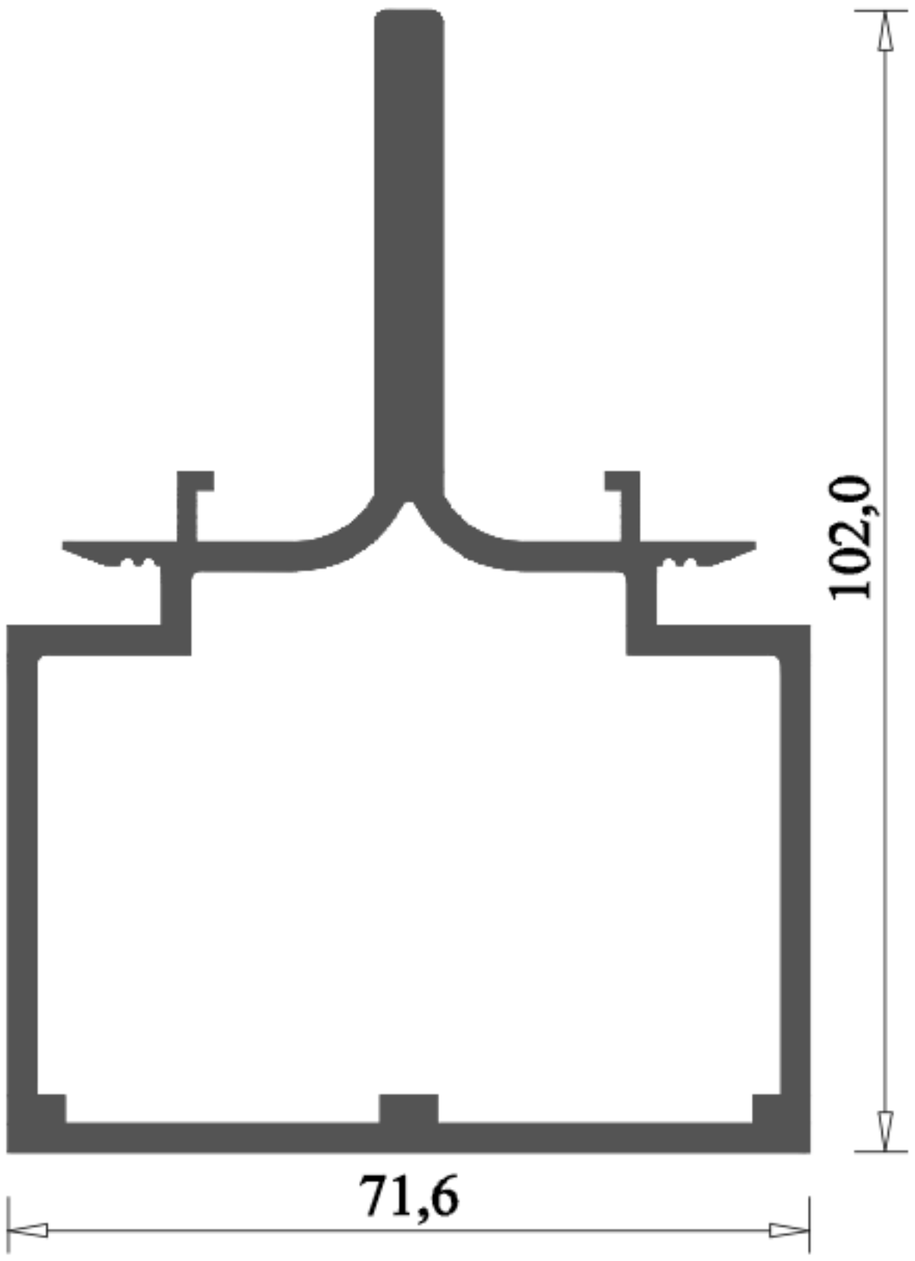
W=2200 gr/m

ΓΩΝΙΑ 90° ΕΞΩΤΕΡΙΚΗ
EXTERNAL MULLION CORNER FOR 90° ANGLE

102-013

W=5427 gr/m

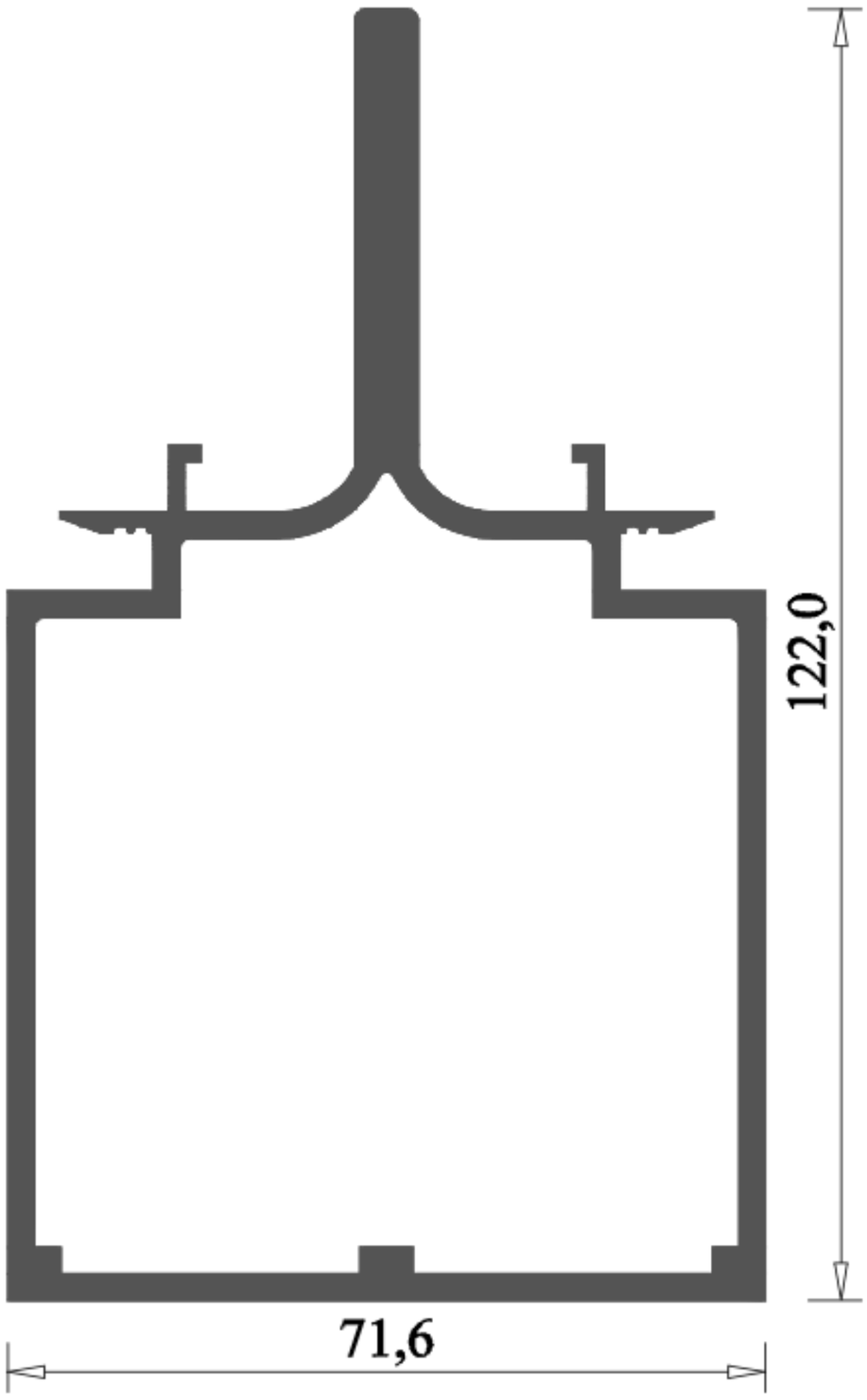




ΚΟΛΩΝΑ
MULLION

102-051

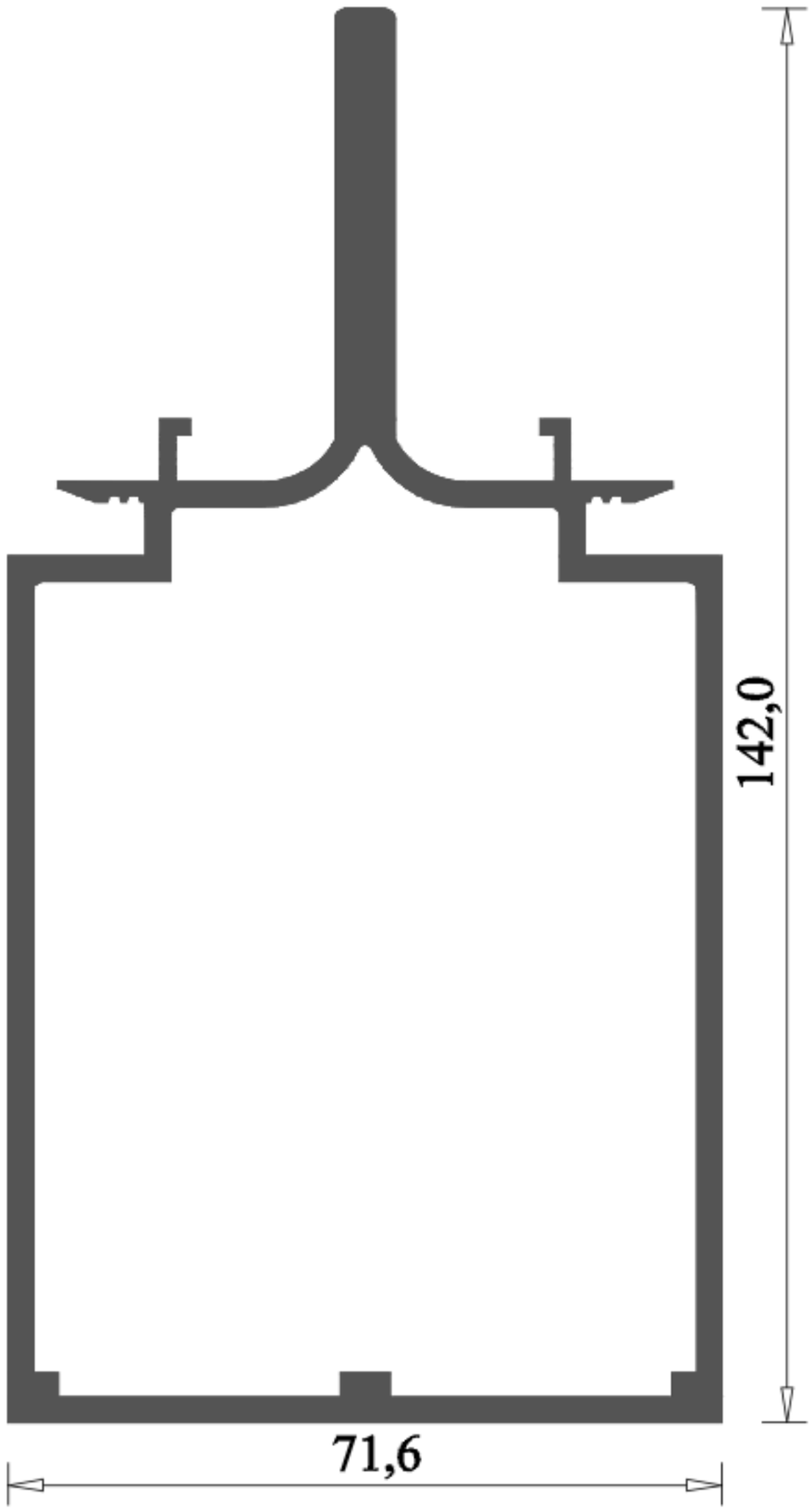
W=2549 gr/m



ΚΟΛΩΝΑ
MULLION

102-052

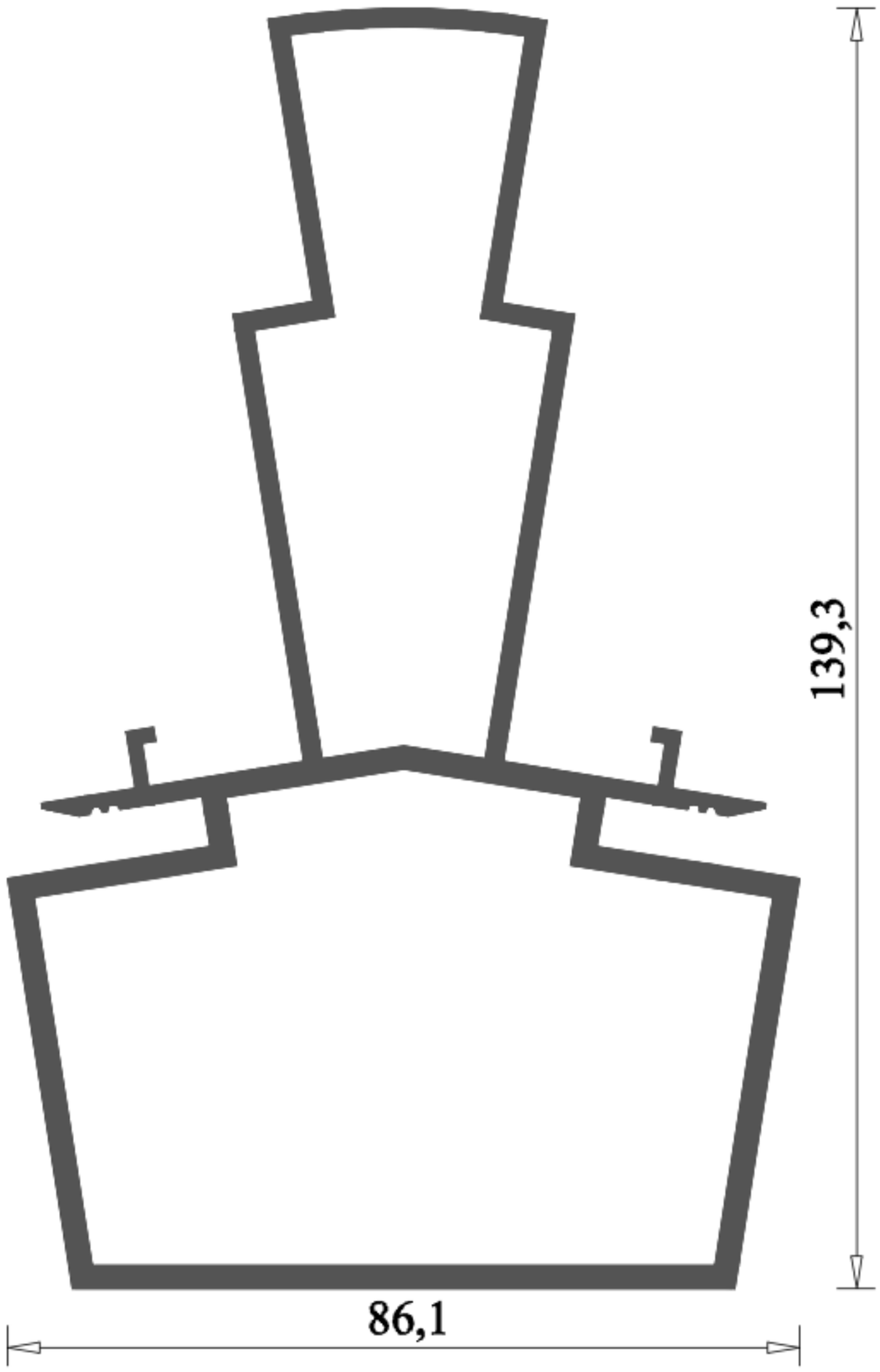
W=2819 gr/m



ΚΟΛΩΝΑ
MULLION

102-053

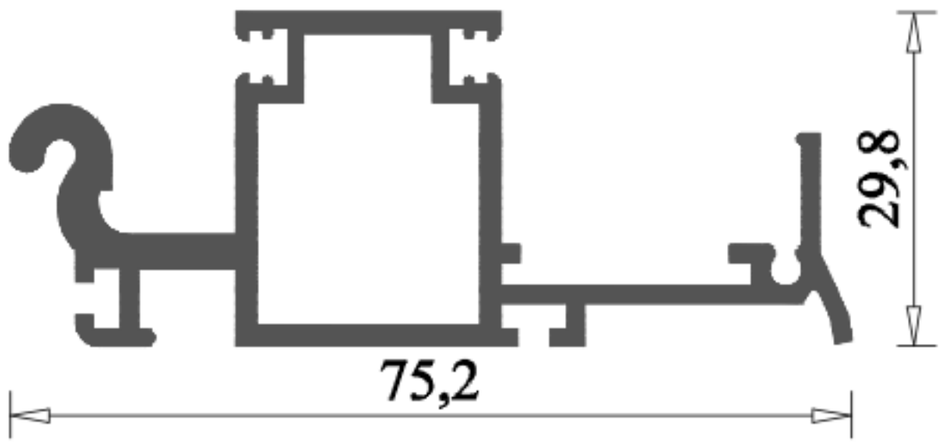
W=3089 gr/m



ΚΟΛΩΝΑ 162°
MULLION FOR 162° ANGLE

102-035

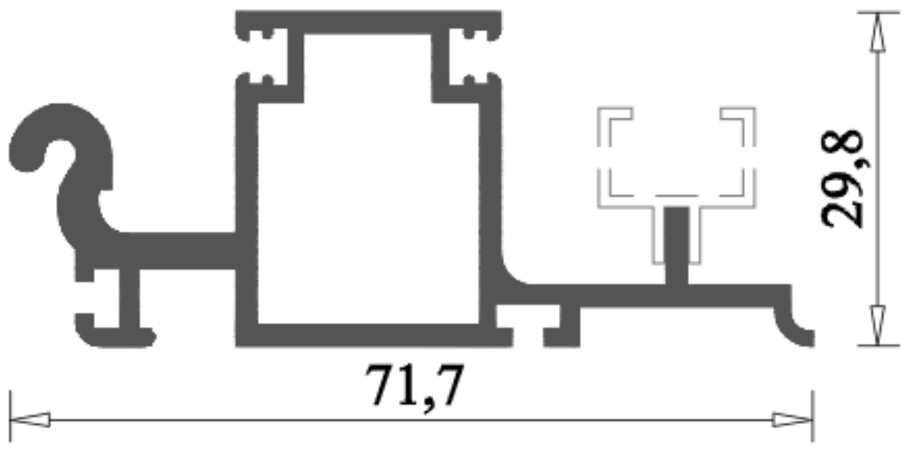
W=3064 gr/m



ΦΥΛΛΟ
SASH

102-007

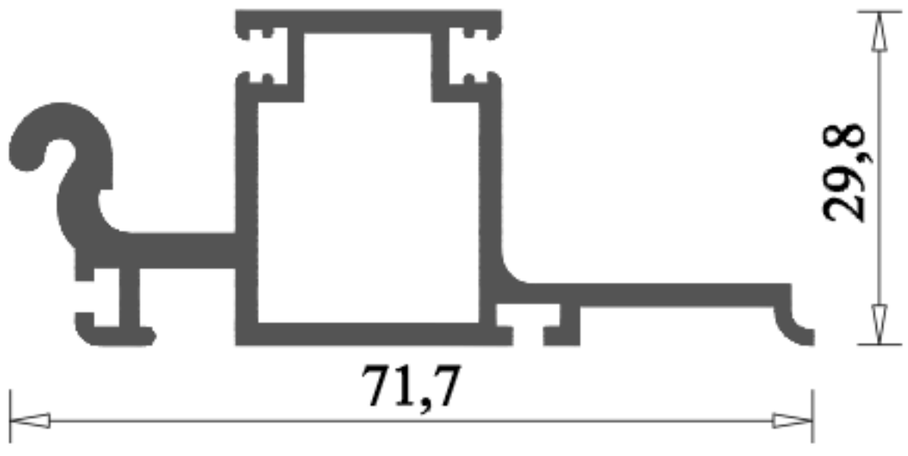
W=1103 gr/m



ΦΥΛΛΟ
SASH

102-049

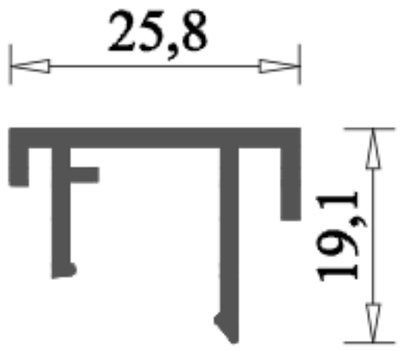
W=1042 gr/m



ΦΥΛΛΟ
SASH

102-050

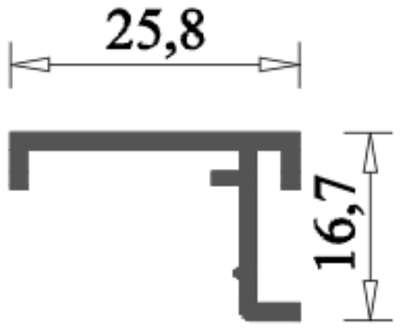
W=1008 gr/m



ΚΟΥΜΠΩΜΑ ΣΤΑΘΕΡΟΥ
COVER FOR FIXED WINDOW

102-008

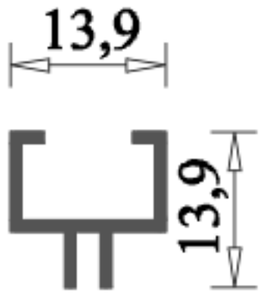
W=272 gr/m



ΚΟΥΜΠΩΜΑ ΠΡΟΒΟΛΗΣ
COVER FOR OPENING WINDOW

102-009

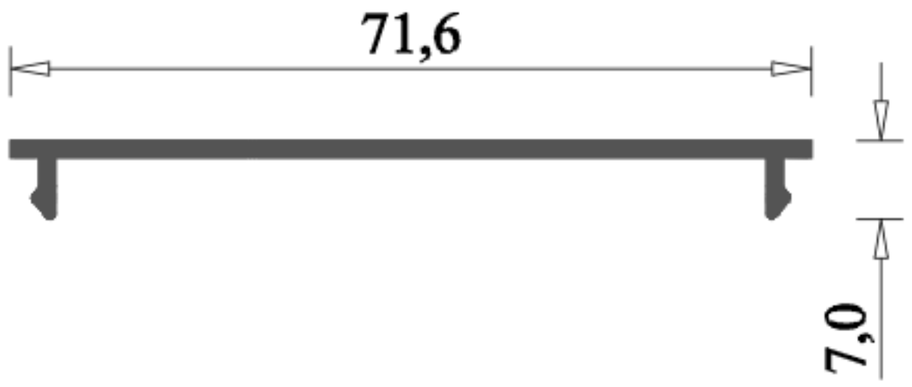
W=219 gr/m



ΠΡΟΣΘΕΤΟ ΠΗΧΑΚΙ ΓΙΑ ΤΖΑΜΙ ΚΟΛΛΗΤΟ
ADDITIONAL GLAZING BEAD FOR GLUED GLAZING

102-048

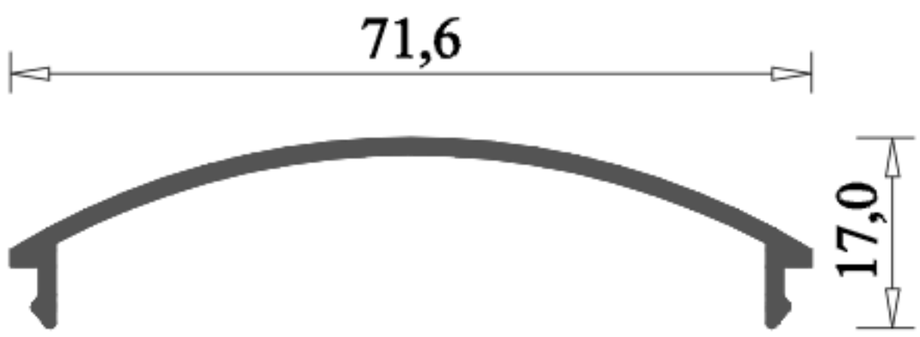
W=118 gr/m



ΚΟΥΜΠΩΜΑ ΤΡΑΒΕΡΣΑΣ
TRANSOM COVER

102-011

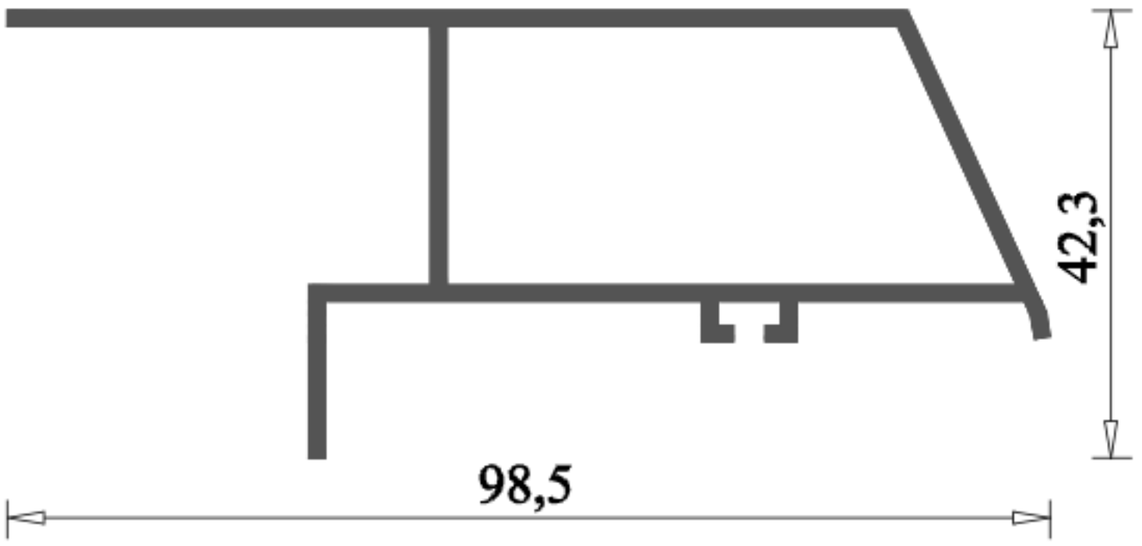
W=335 gr/m



ΚΟΥΜΠΩΜΑ ΤΡΑΒΕΡΣΑΣ
TRANSOM COVER

102-015

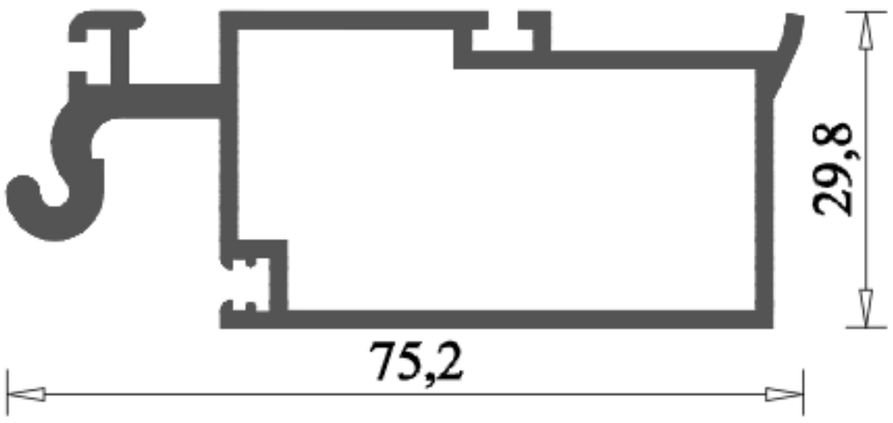
W=372 gr/m



ΤΕΛΕΙΩΜΑ ΝΕΡΟΧΥΤΗ
DRAINING FINISHING PROFILE

102-018

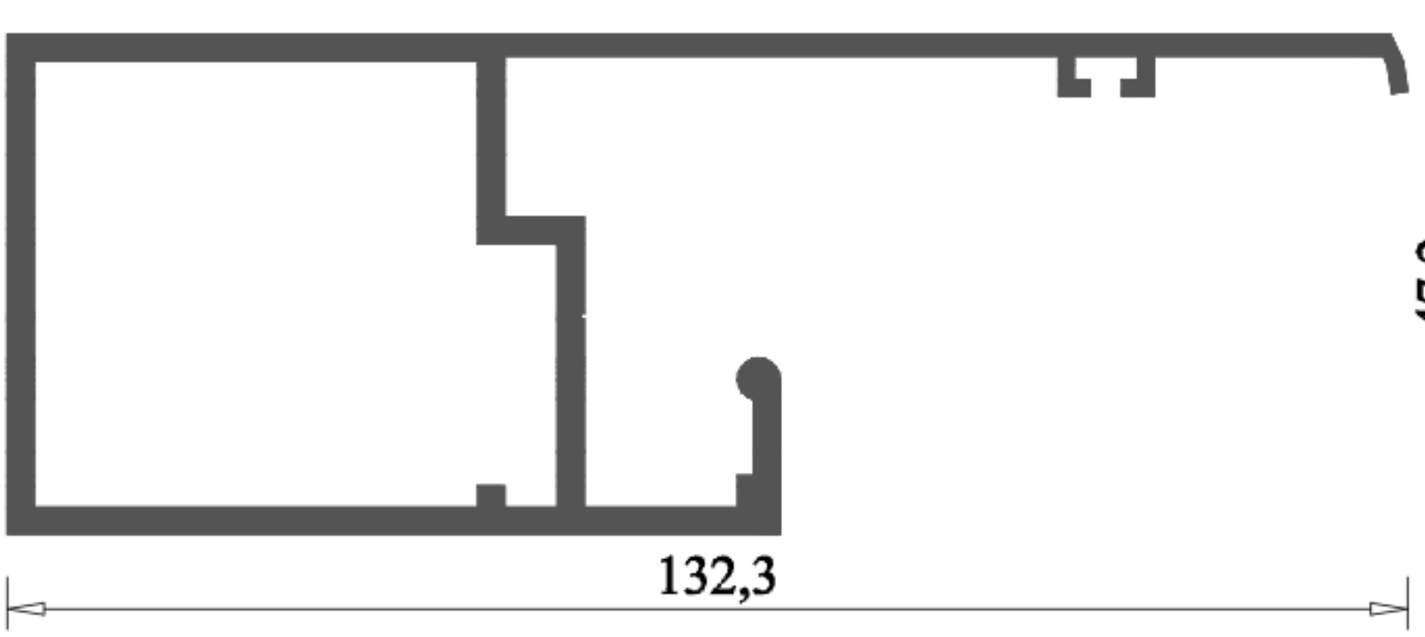
W=951 gr/m



ΤΕΛΕΙΩΜΑ ΚΑΤΩ
LOWER FINISHING PROFILE

102-017

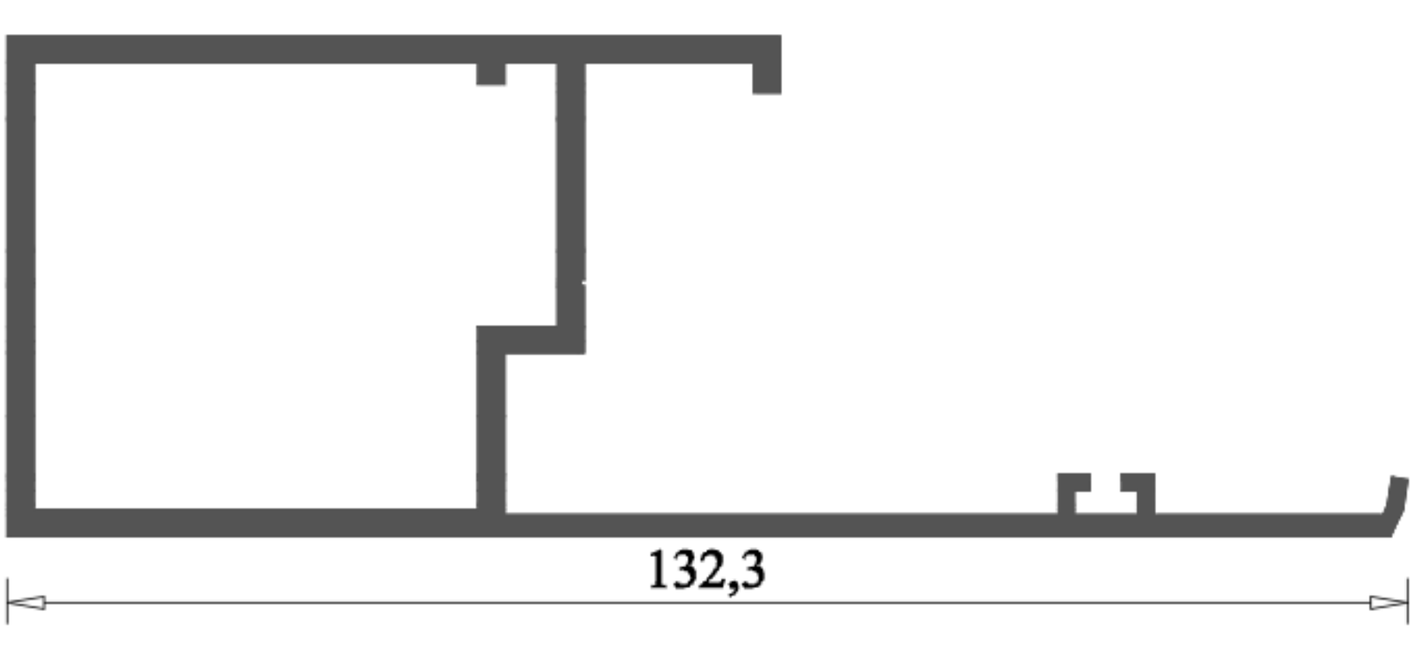
W=1055 gr/m



ΤΕΛΕΙΩΜΑ ΤΡΑΒΕΡΣΑΣ
TRANSOM FINISHING PROFILE

102-054

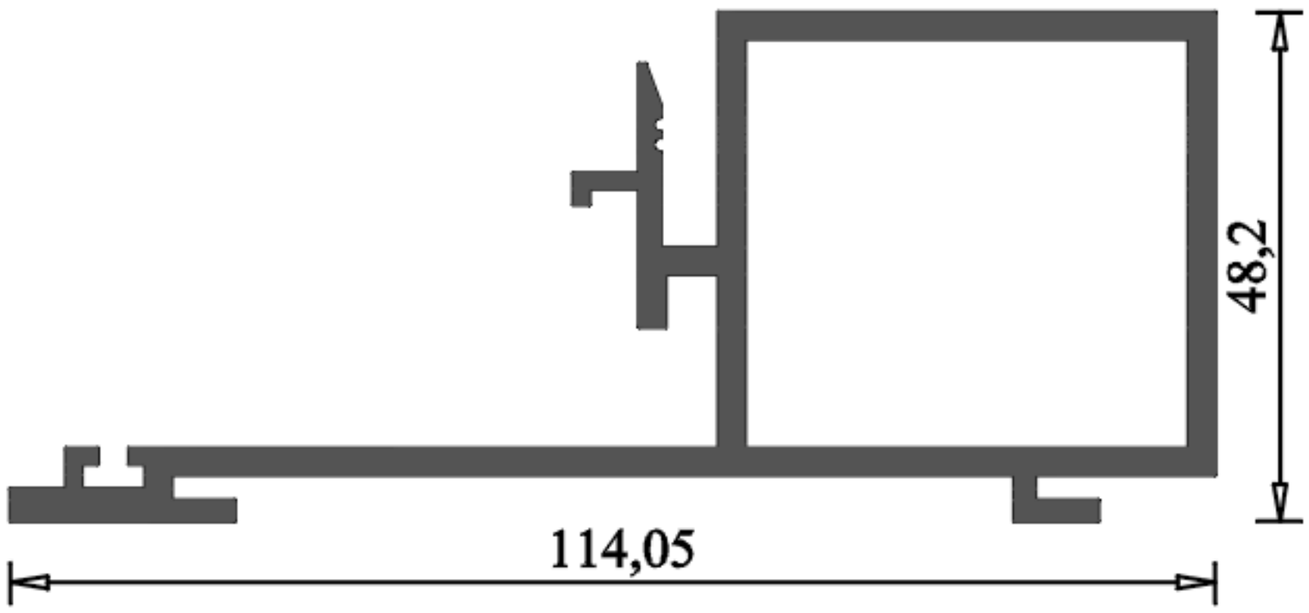
W=2072 gr/m



ΤΕΛΕΙΩΜΑ ΤΡΑΒΕΡΣΑΣ
TRANSOM FINISHING PROFILE

102-055

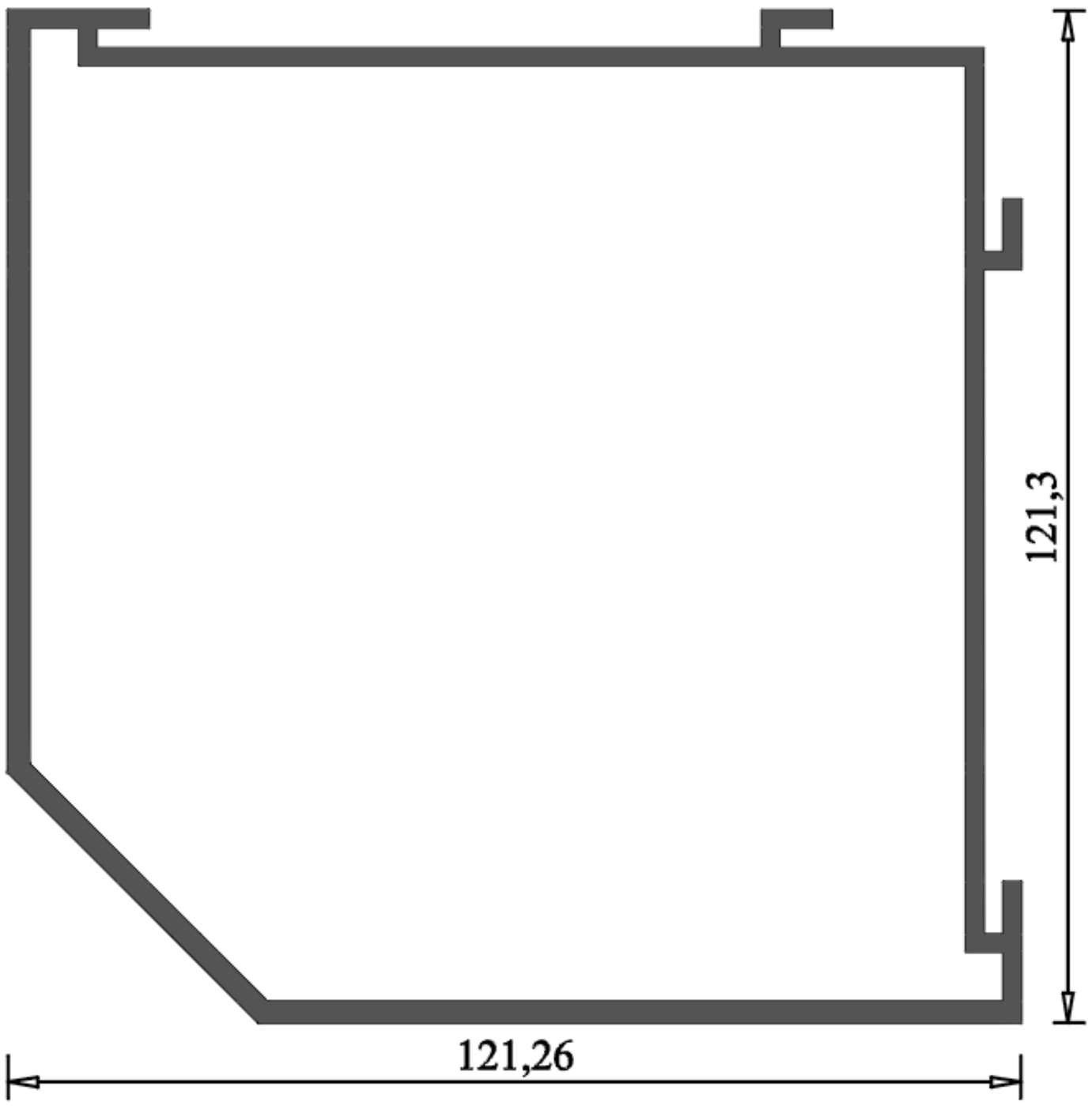
W=1974 gr/m



ΚΟΛΩΝΑ 90° ΕΣΩΤΕΡΙΚΗ
INTERNAL MULLION FOR 90° ANGLE

102-028

W=1975 gr/m



ΚΟΛΩΝΑ 90° ΕΣΩΤΕΡΙΚΗ
INTERNAL MULLION FOR 90° ANGLE

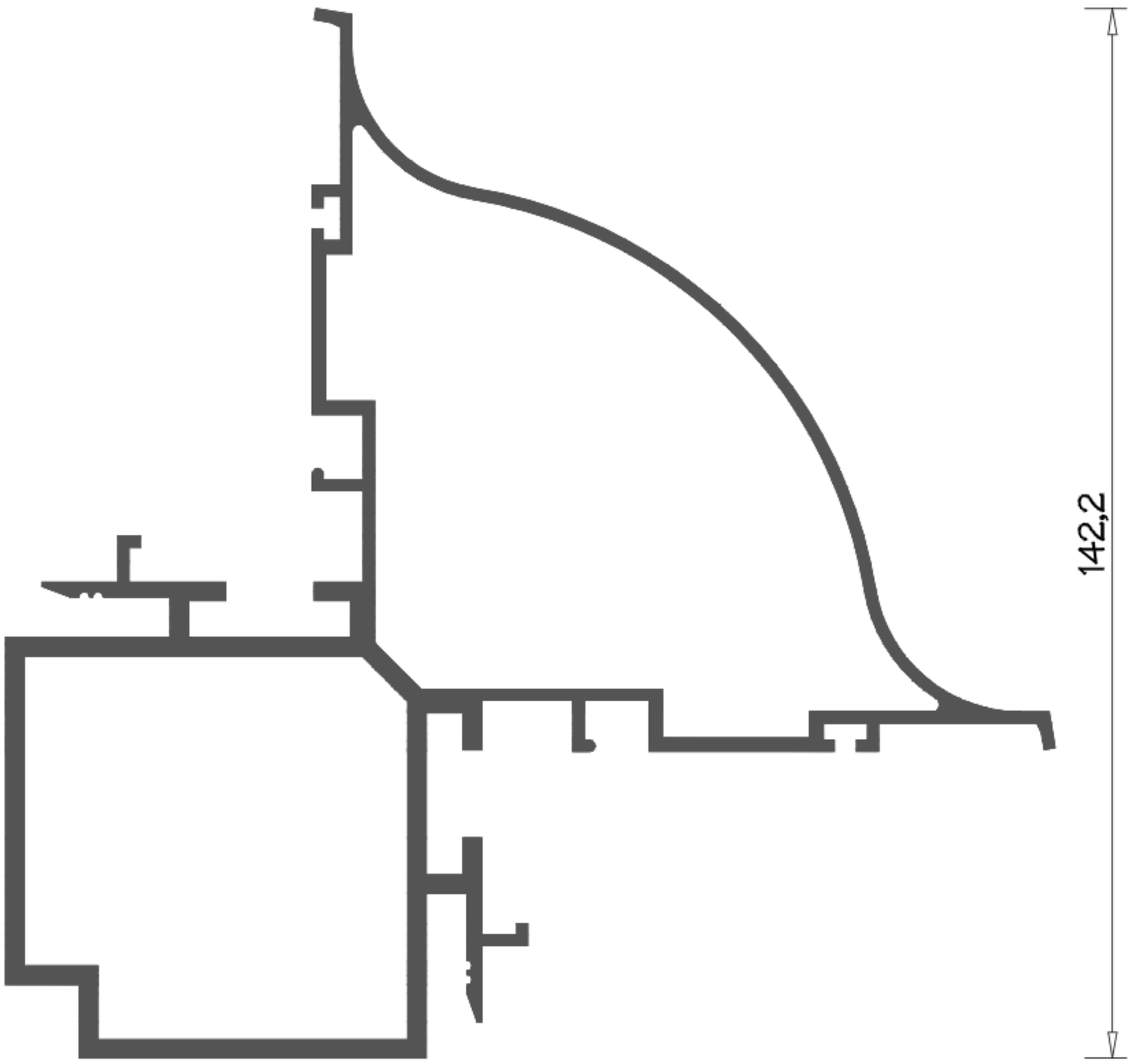
102-029

W=2888 gr/m

ΓΩΝΙΑ 90° ΕΞΩΤΕΡΙΚΗ
EXTERNAL MULLION CORNER FOR 90° ANGLE

102-01 0

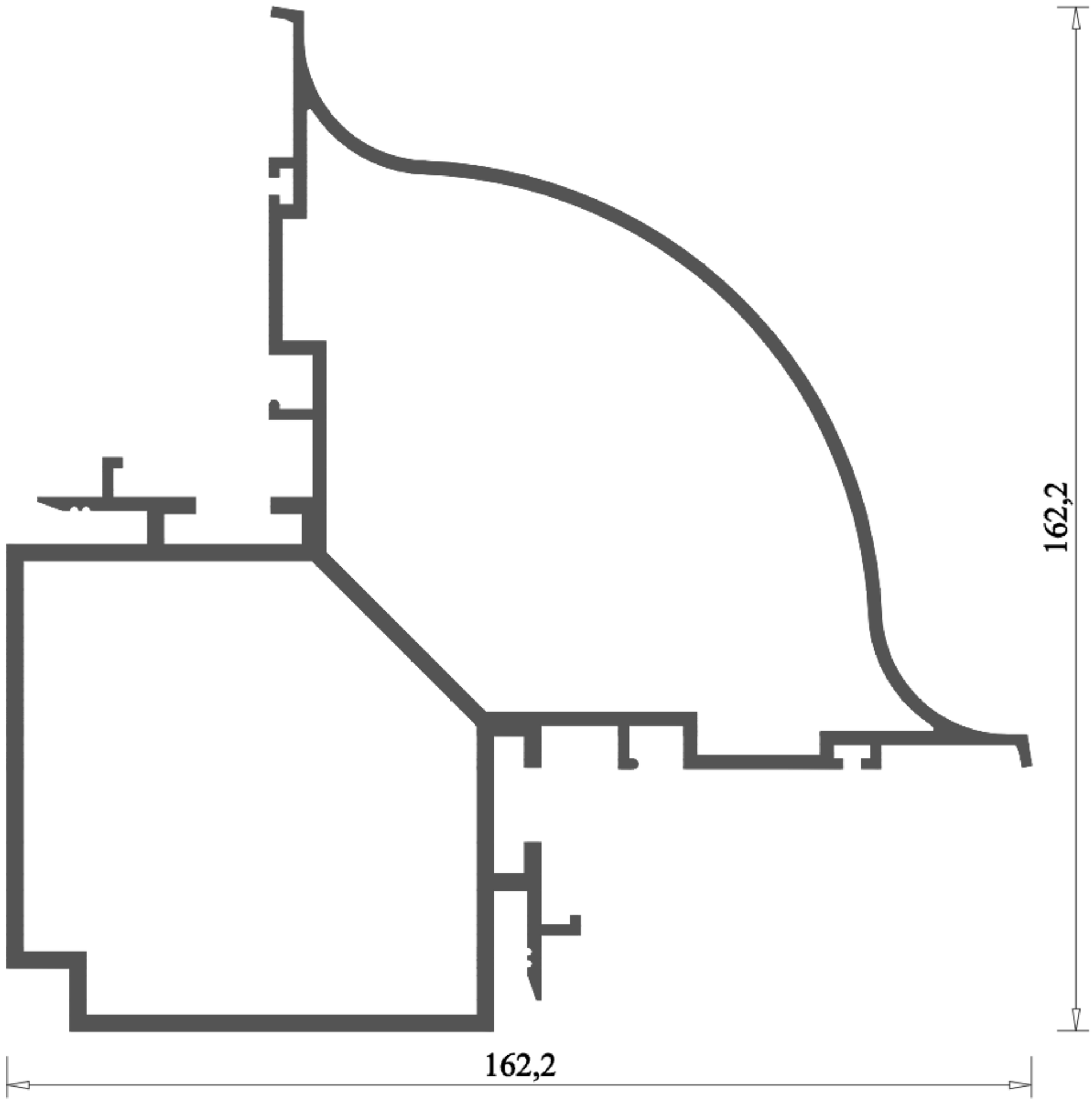
W=3553 gr/m



ΓΩΝΙΑ 90° ΕΞΩΤΕΡΙΚΗ
EXTERNAL MULLION CORNER FOR 90° ANGLE

102-012

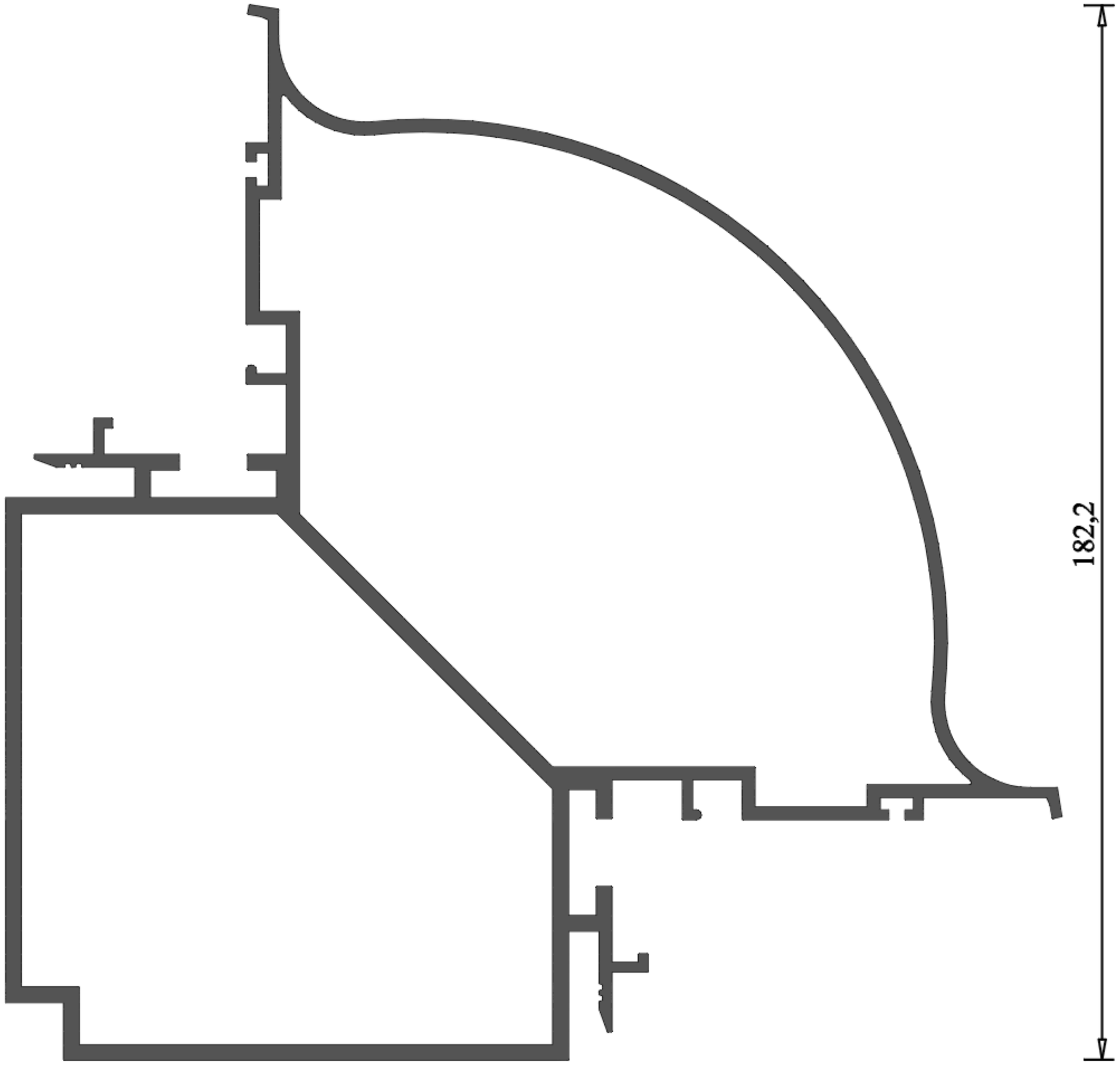
W=4467 gr/m



ΓΩΝΙΑ 90° ΕΞΩΤΕΡΙΚΗ
EXTERNAL MULLION CORNER FOR 90° ANGLE

102-013

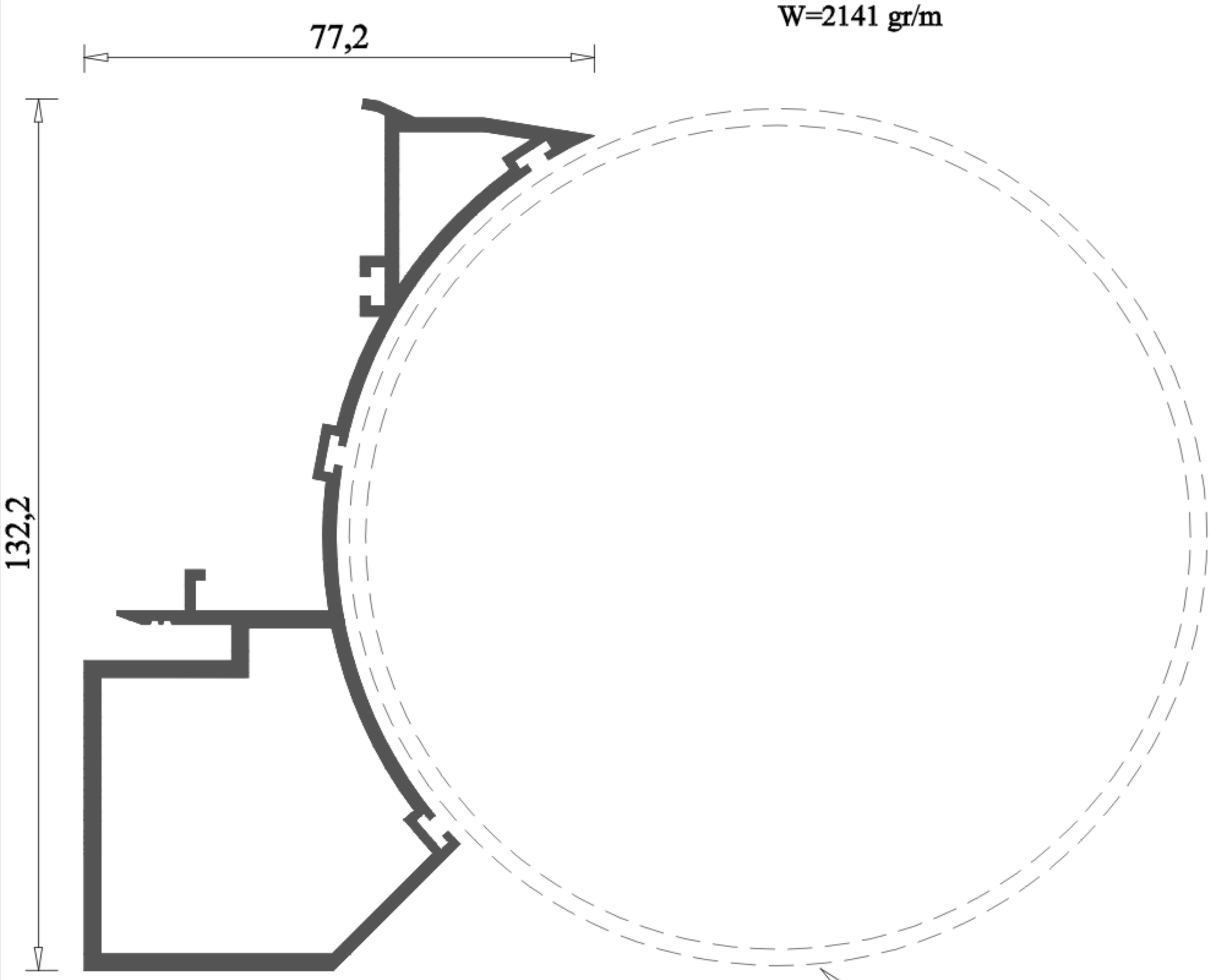
W=5427 gr/m



ΚΟΛΩΝΑ ΜΕΤΑΒΛΗΤΗΣ ΓΩΝΙΑΣ
MULLION PROFILE FOR VARIABLE ANGLE

102-016

W=2141 gr/m

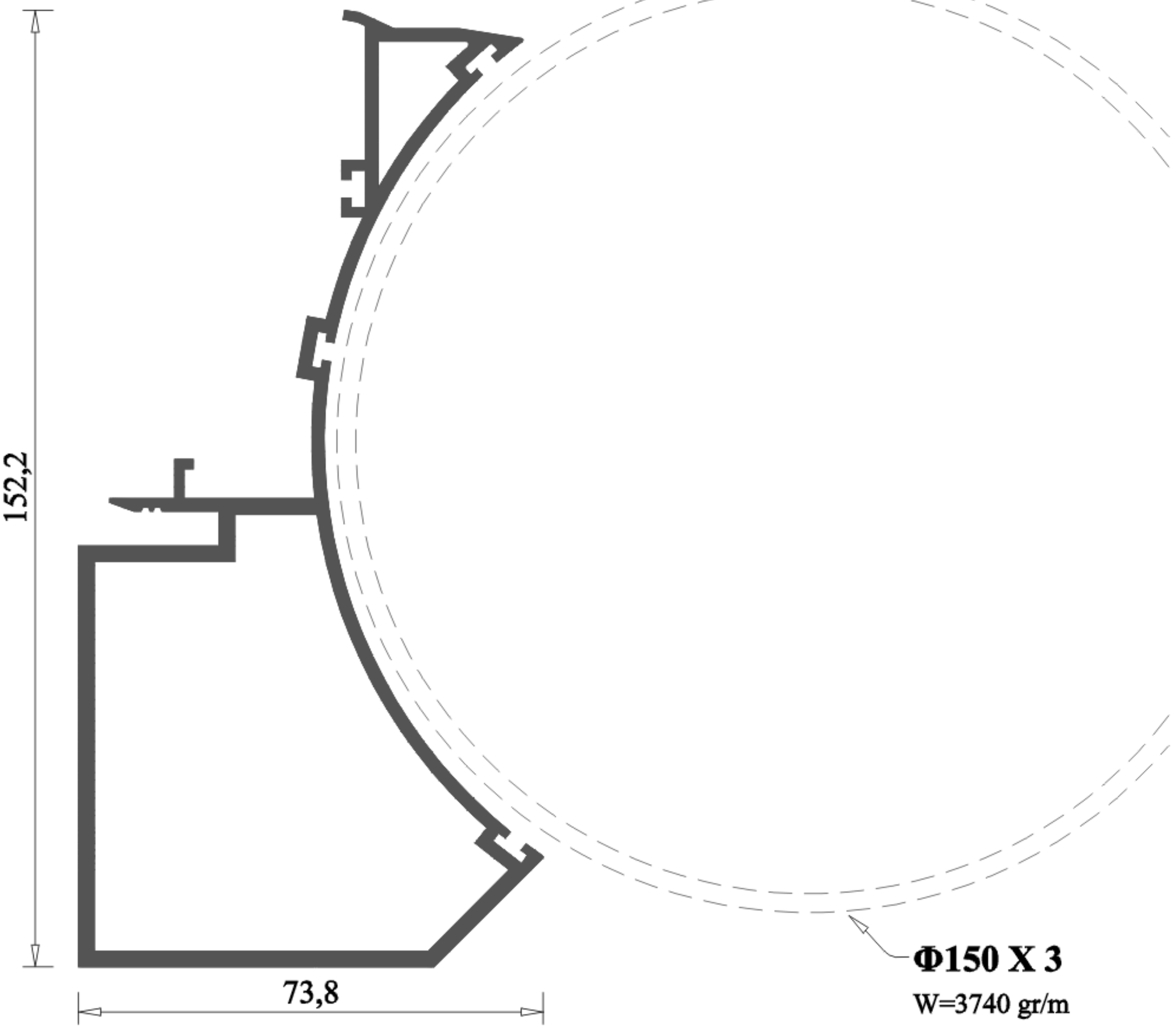


W=2705 gr/m

ΚΟΛΩΝΑ ΜΕΤΑΒΛΗΤΗΣ ΓΩΝΙΑΣ
MULLION PROFILE FOR VARIABLE ANGLE

102-025

W=2590 gr/m

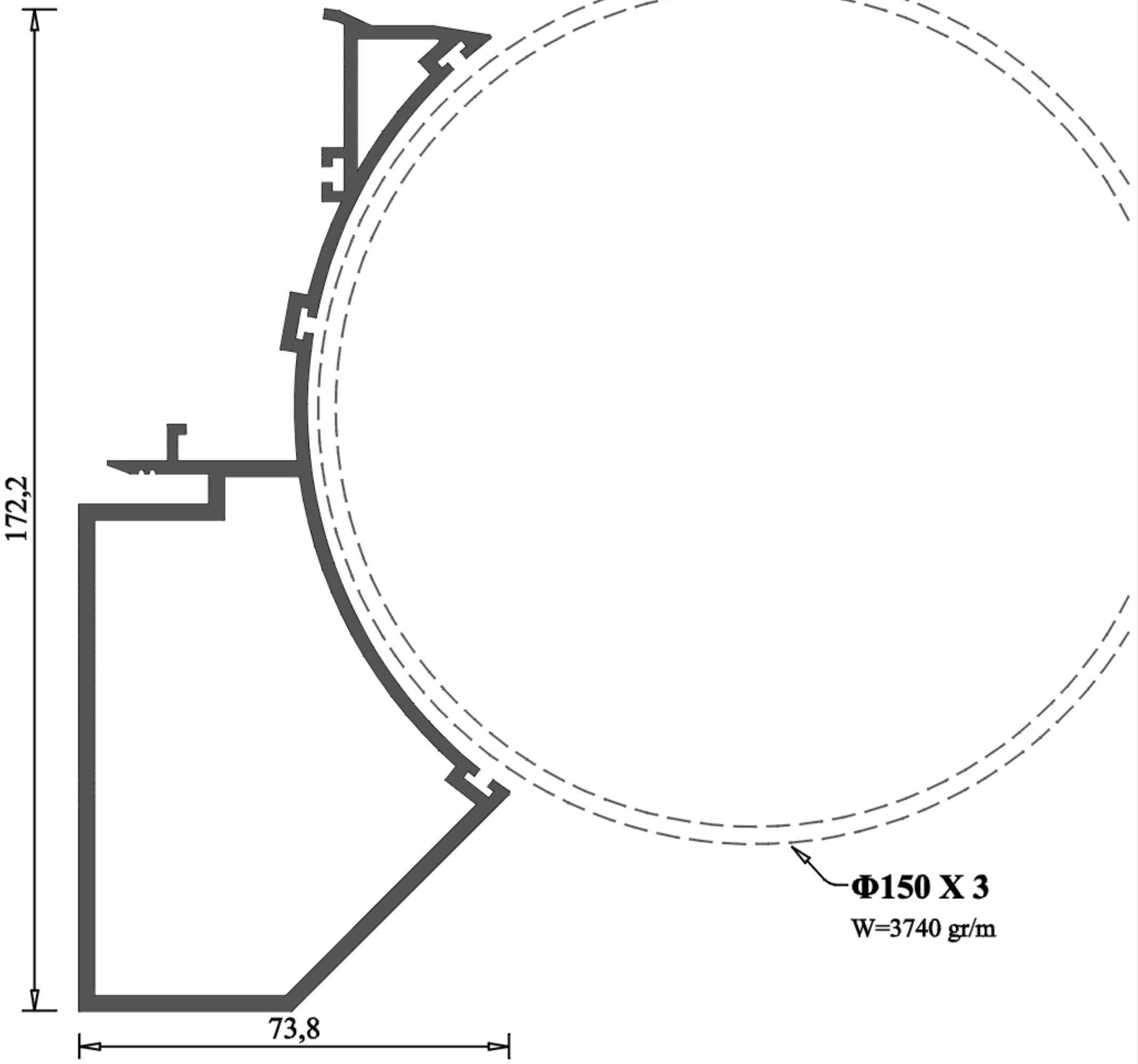


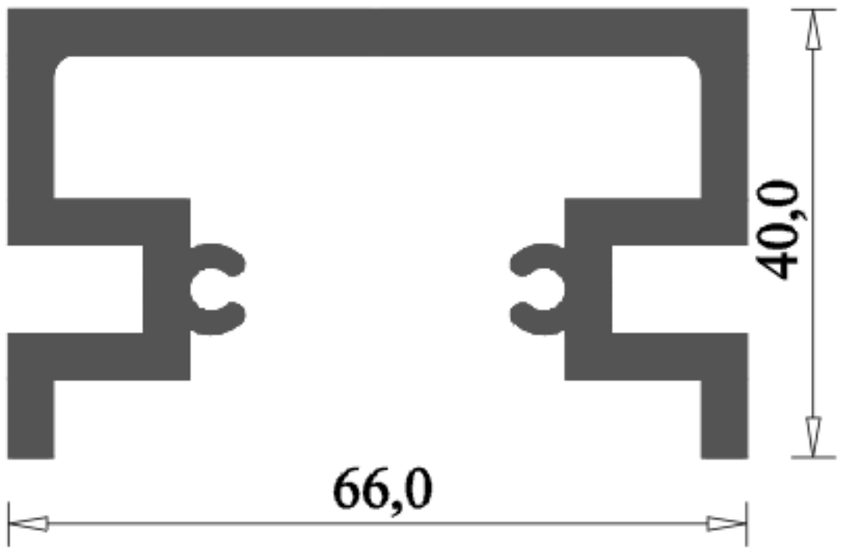
W=3740 gr/m

ΚΟΛΩΝΑ ΜΕΤΑΒΛΗΤΗΣ ΓΩΝΙΑΣ
MULLION PROFILE FOR VARIABLE ANGLE

102-026

W=2781 gr/m

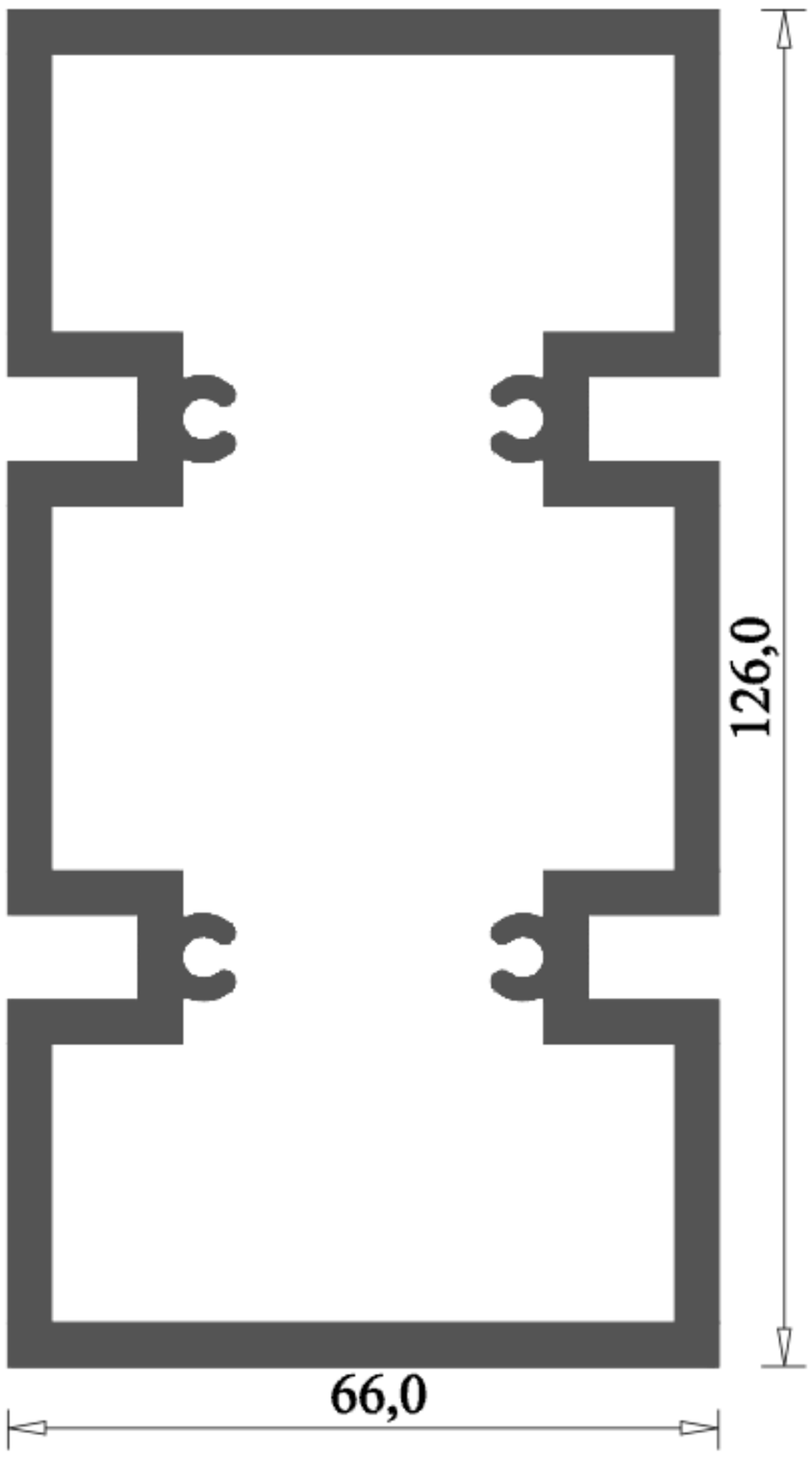




ΣΥΝΔΕΣΜΟΣ ΣΤΗΡΙΞΗΣ
MULLION-TRANSOM CONNECTOR

102-000

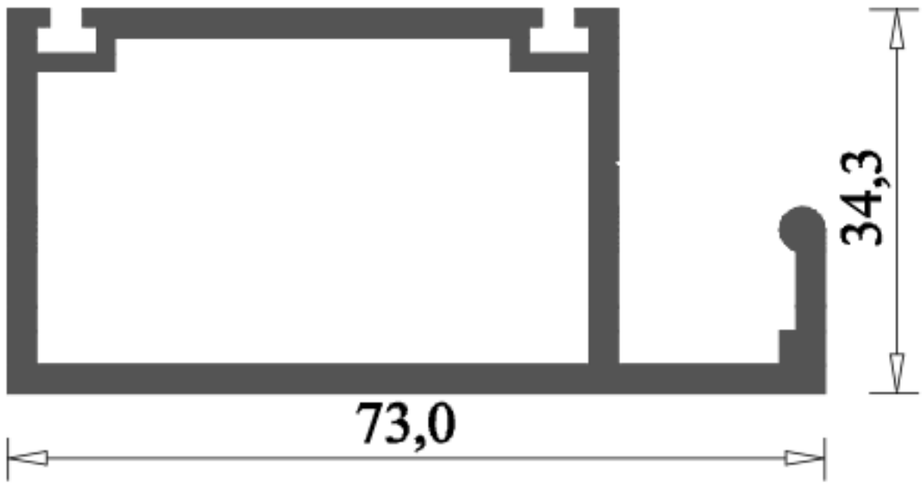
W=2126 gr/m



ΠΡΟΦΙΛ ΕΝΩΣΗΣ ΓΙΑ ΚΟΛΩΝΕΣ
MULLION CONNECTION PROFILE

102-027

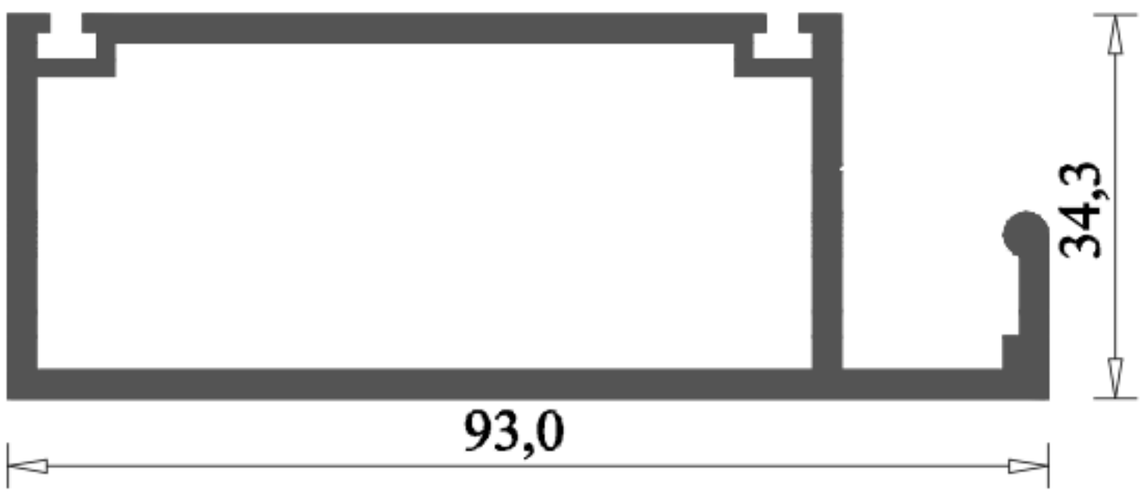
W=5248 gr/m



ΤΕΛΕΙΩΜΑ ΑΝΩ ΤΡΑΒΕΡΣΑΣ
UPPER TRANSOM FINISHING PROFILE

102-044

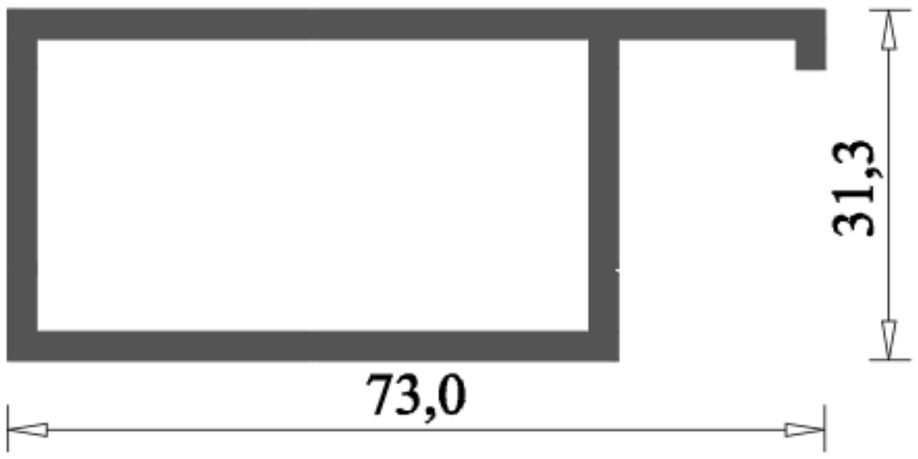
W=1388 gr/m



ΤΕΛΕΙΩΜΑ ΑΝΩ ΤΡΑΒΕΡΣΑΣ
UPPER TRANSOM FINISHING PROFILE

102-034

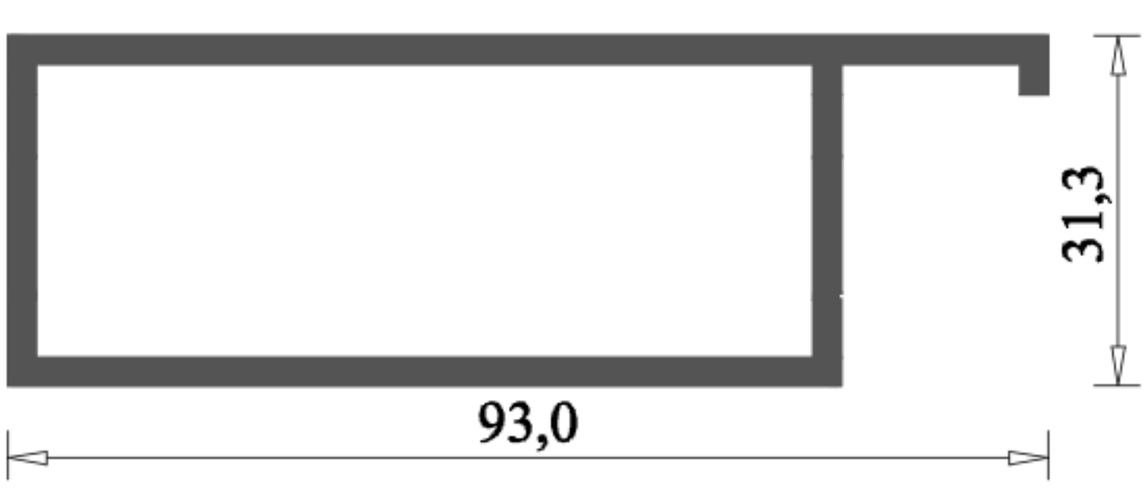
W=1658 gr/m



ΤΕΛΕΙΩΜΑ ΚΑΤΩ ΤΡΑΒΕΡΣΑΣ
LOWER FINISHING PROFILE

102-043

W=1234 gr/m



ΤΕΛΕΙΩΜΑ ΚΑΤΩ ΤΡΑΒΕΡΣΑΣ
LOWER TRANSOM FINISHING PROFILE

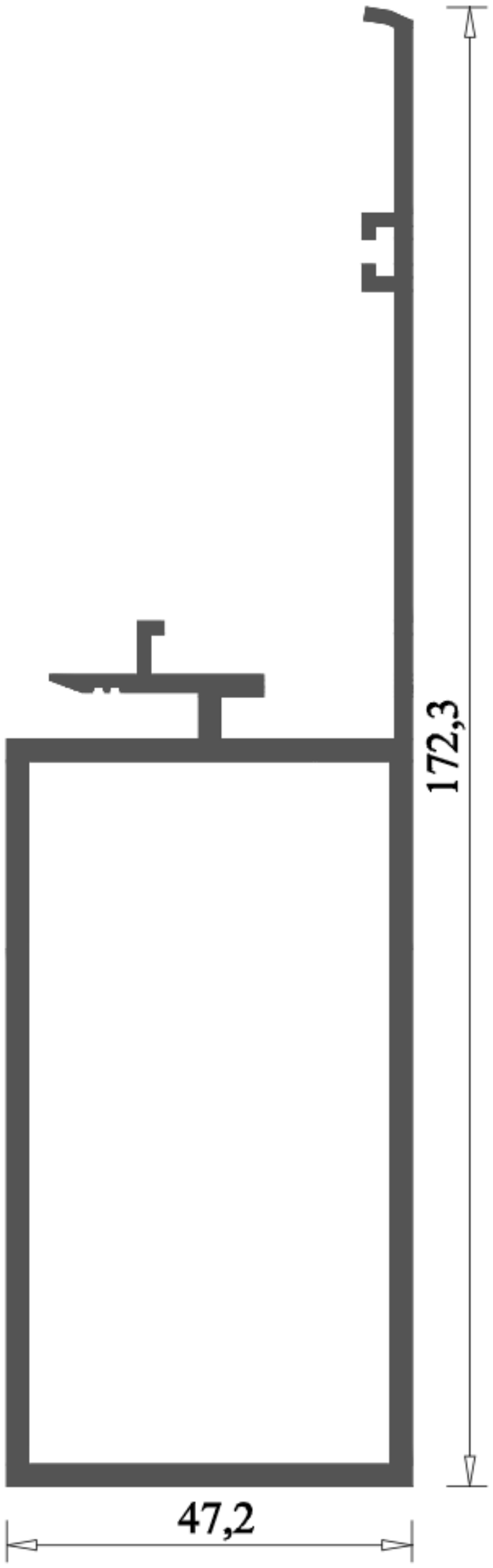
102-033

W=1504 gr/m

ΤΕΛΕΙΩΜΑ ΚΟΛΩΝΑΣ
MULLION FINISHING PROFILE

102-040

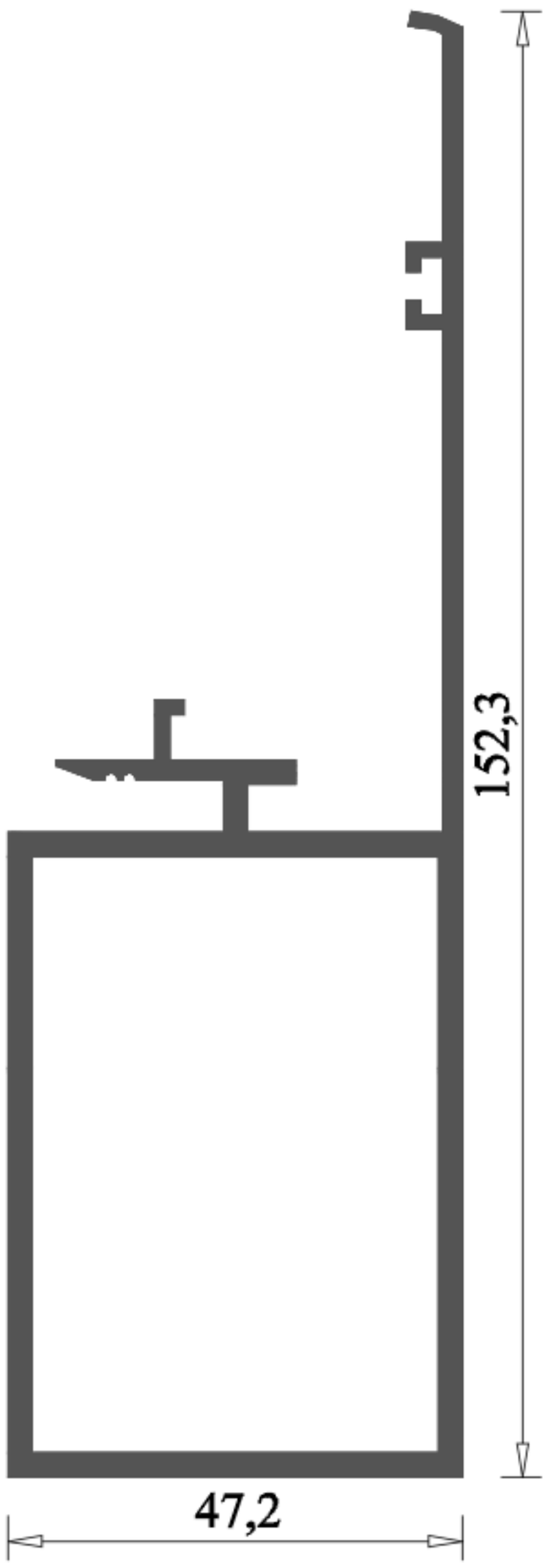
W=2455 gr/m



ΤΕΛΕΙΩΜΑ ΚΟΛΩΝΑΣ
MULLION FINISHING PROFILE

102-041

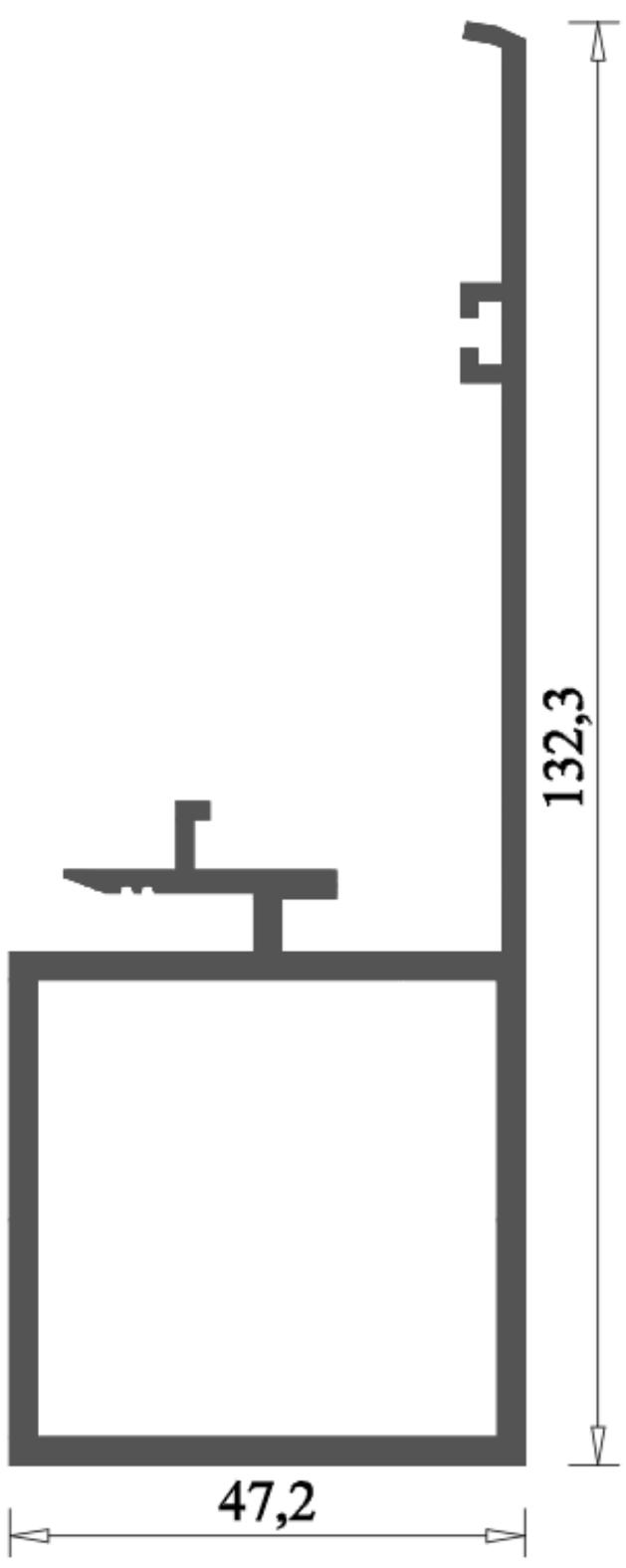
W=2184 gr/m

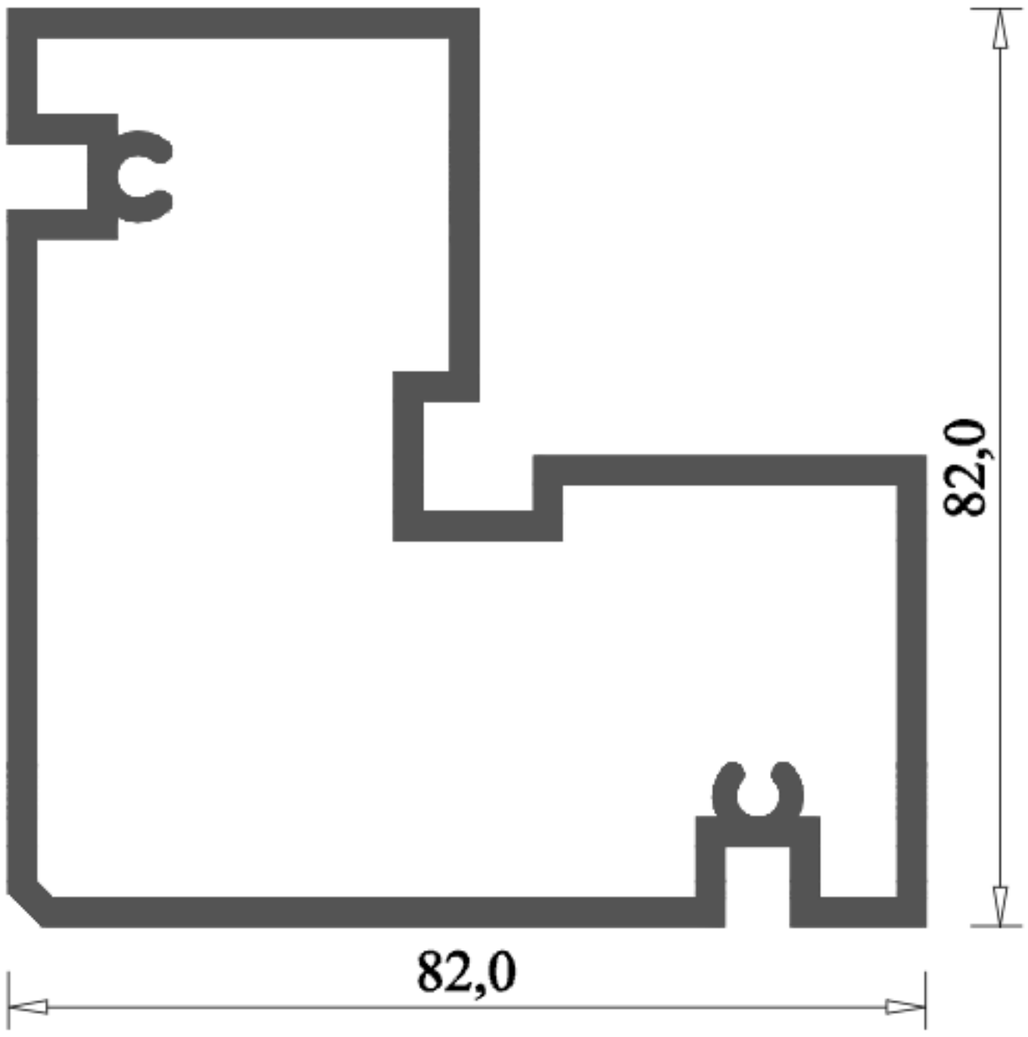


ΤΕΛΕΙΩΜΑ ΚΟΛΩΝΑΣ
MULLION FINISHING PROFILE

102-042

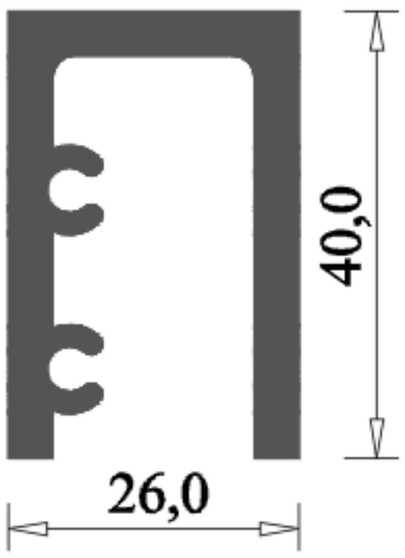
W=1914 gr/m





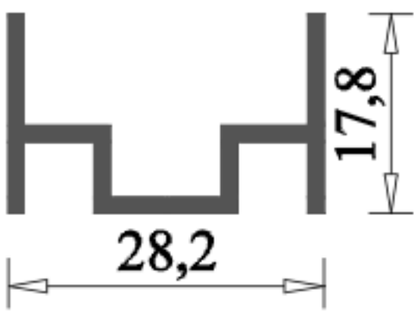
102-056

W=2577 gr/m



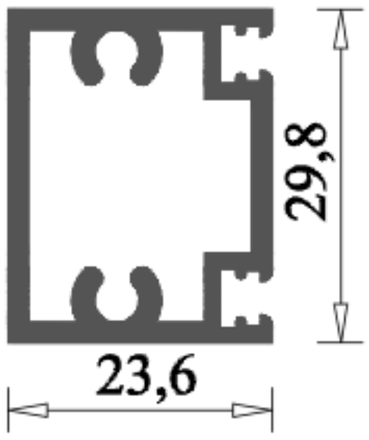
102-039

W=1155 gr/m



102-046

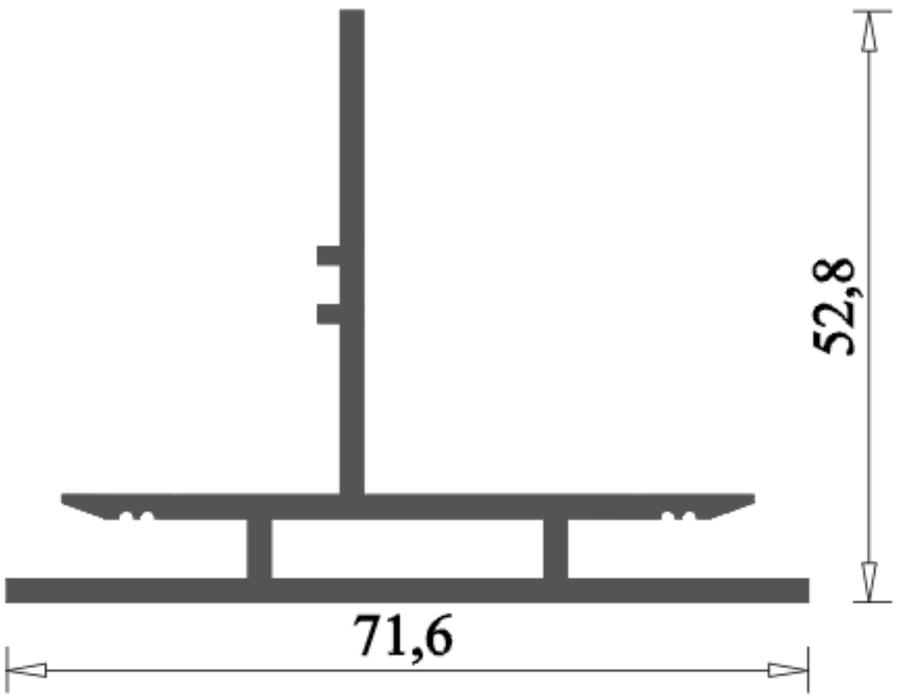
W=279 gr/m



ΧΩΡΙΣΜΑ ΦΥΛΛΟΥ
SASH PARTITION PROFILE

102-019

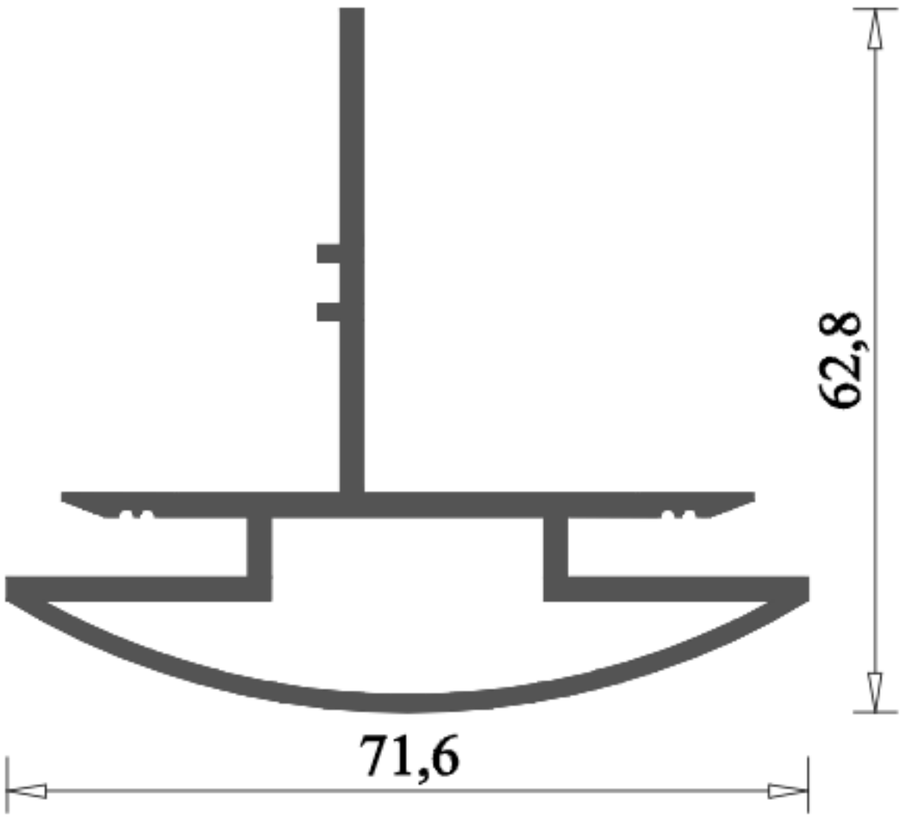
W=622 gr/m



ΜΠΗΝΙ
RABBET PROFILE

102-023

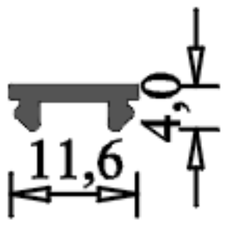
W=1007 gr/m



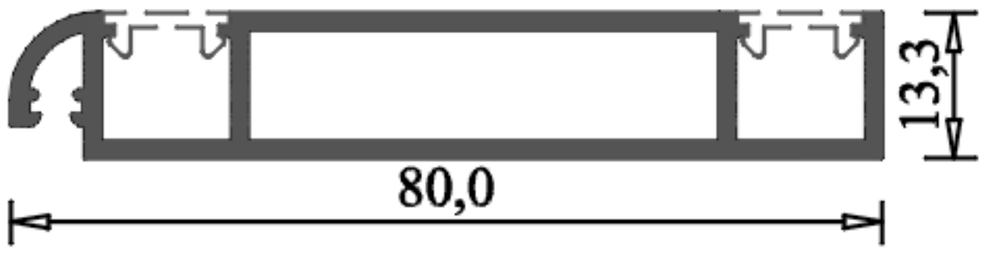
ΜΠΗΝΙ
RABBET PROFILE

102-024

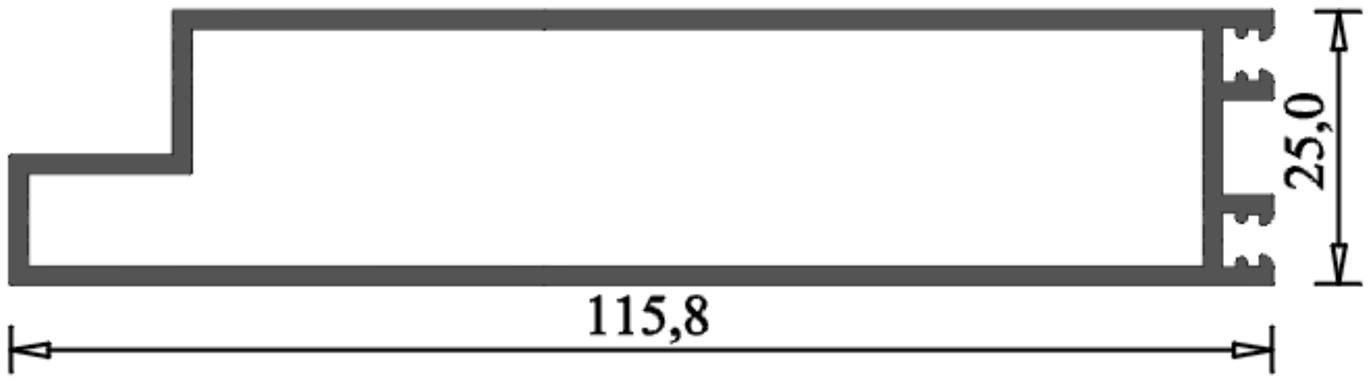
W=1166 gr/m



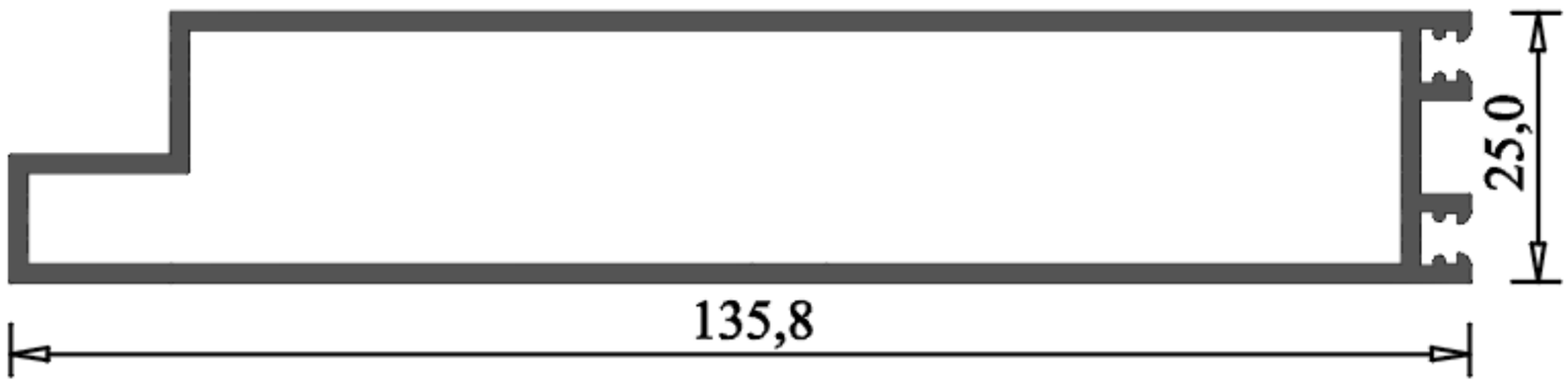
102-022
W=62 gr/m



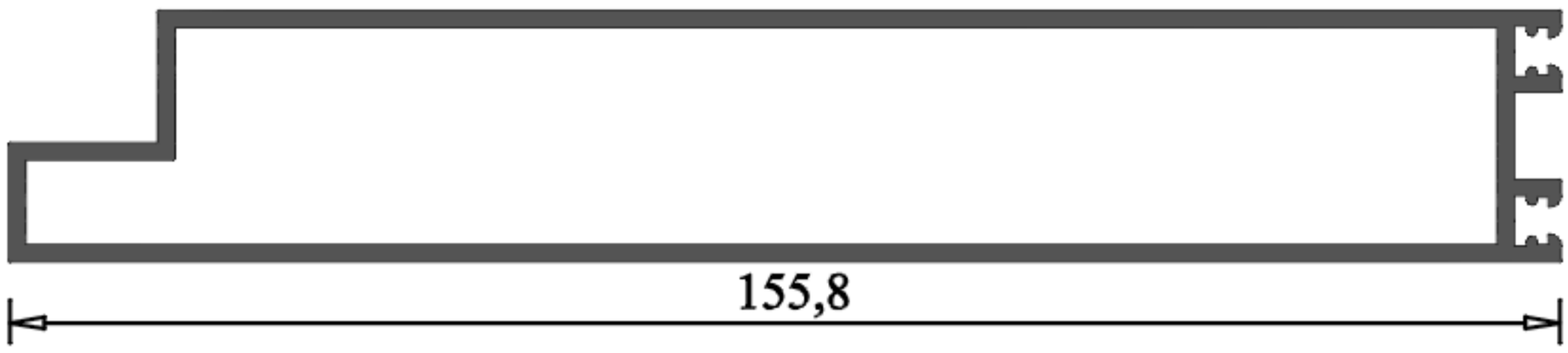
102-021
W=731 gr/m



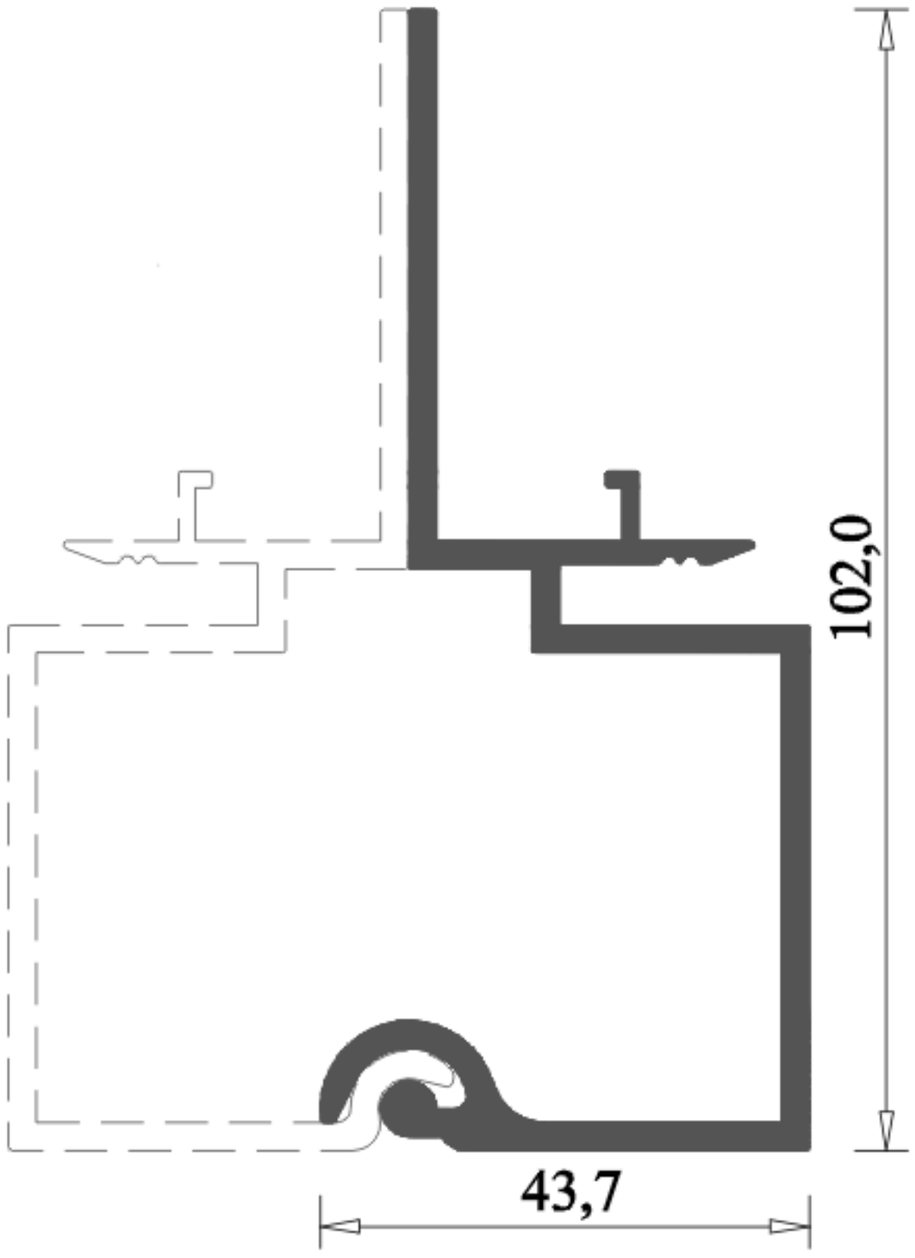
102-032
W=1167 gr/m



102-020
W=1328 gr/m



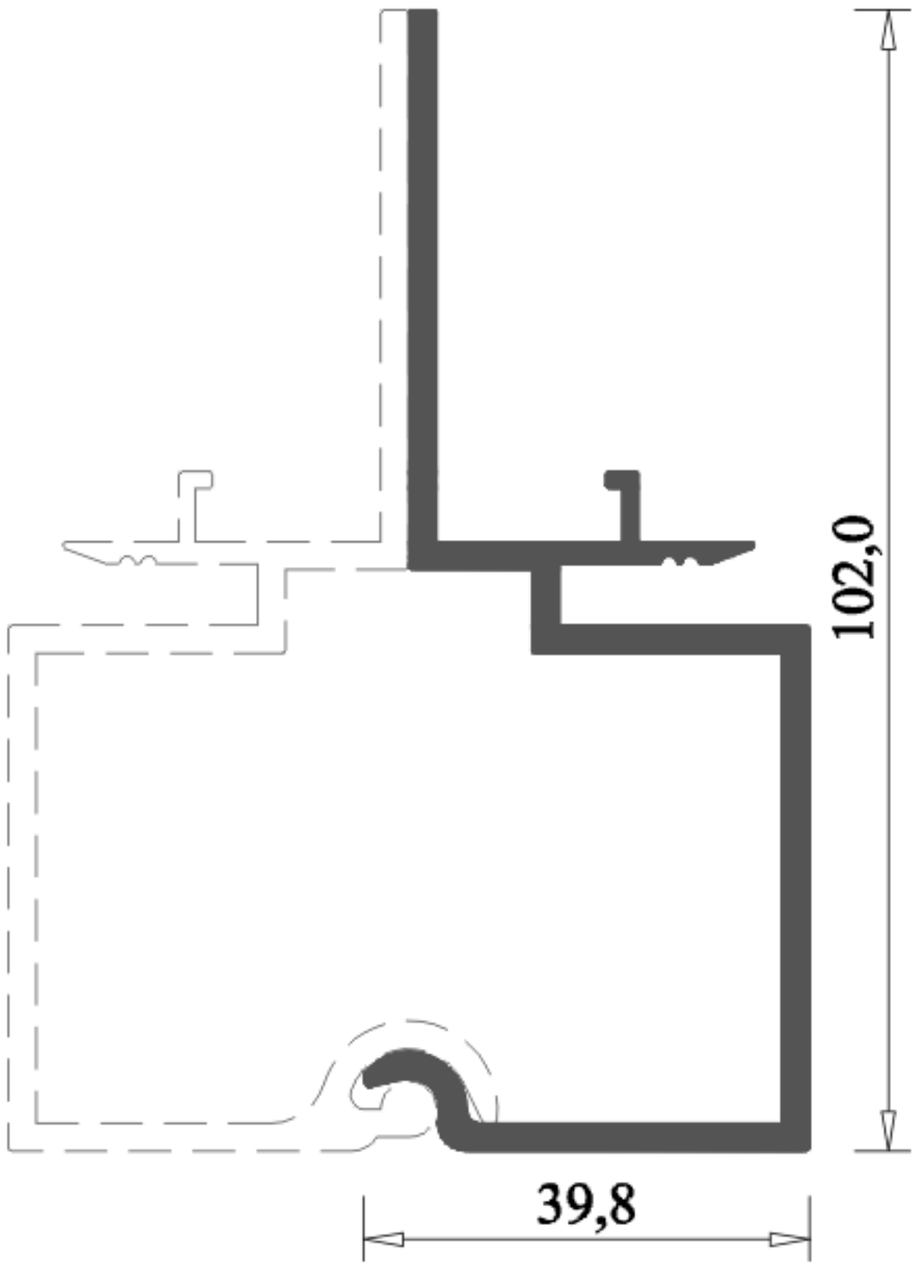
102-031
W=1491 gr/m



ΚΟΛΩΝΑ ΜΕΤΑΒΛΗΤΗΣ ΓΩΝΙΑΣ
MULLION PROFILE FOR VARIABLE ANGLE

102-059

W=1462 gr/m



ΚΟΛΩΝΑ ΜΕΤΑΒΛΗΤΗΣ ΓΩΝΙΑΣ
MULLION PROFILE FOR VARIABLE ANGLE

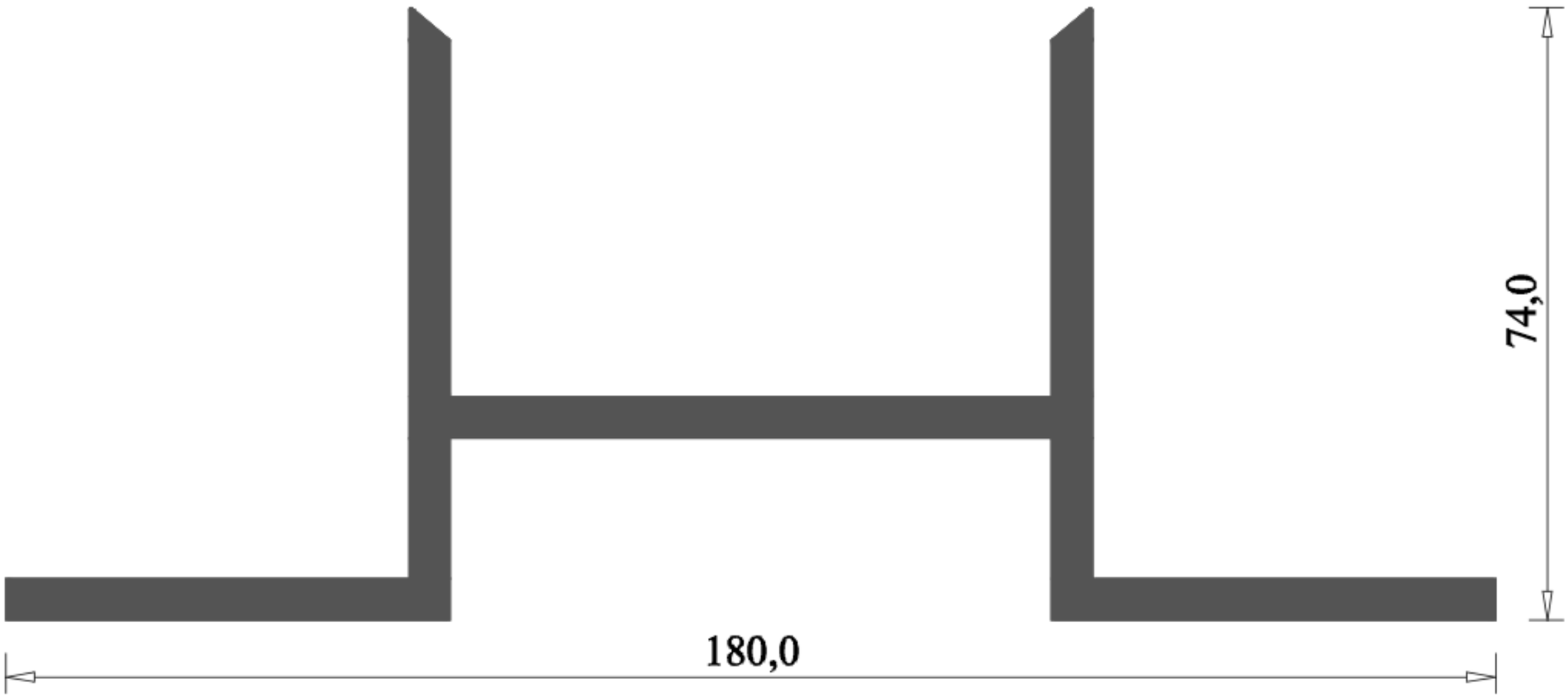
102-060

W=1307 gr/m

"Π" ΑΓΚΙΣΤΡΩΣΗΣ ΚΟΛΩΝΑΣ
MULLION BRACKET

102-030

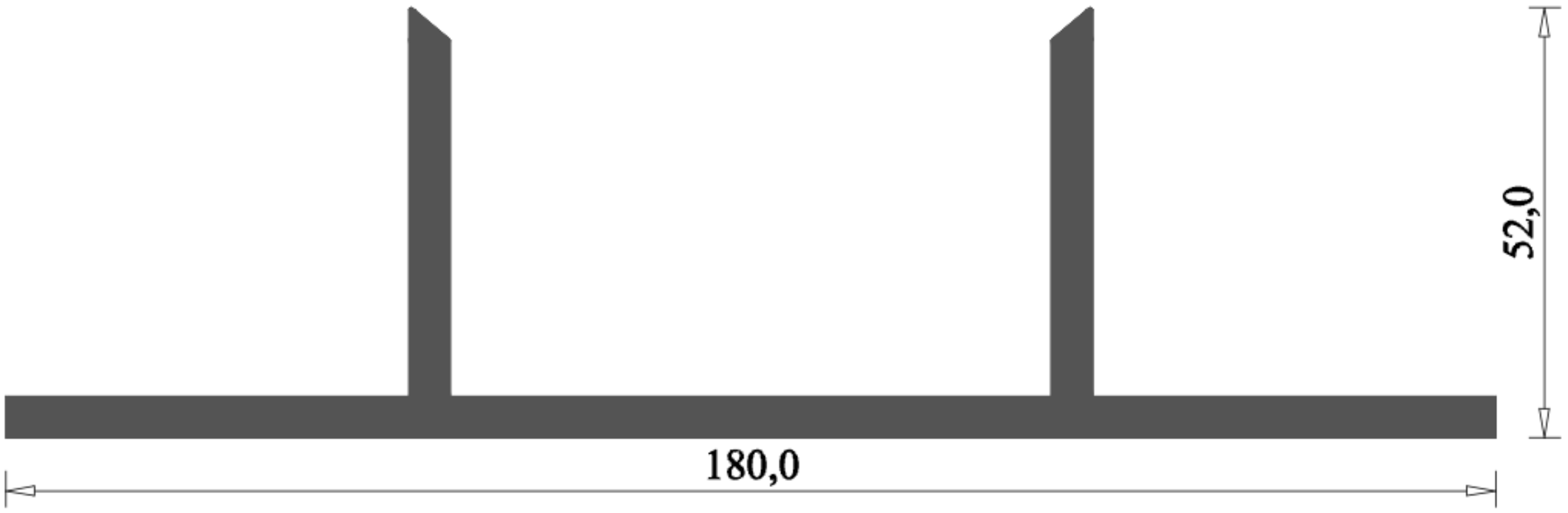
W=4245 gr/m

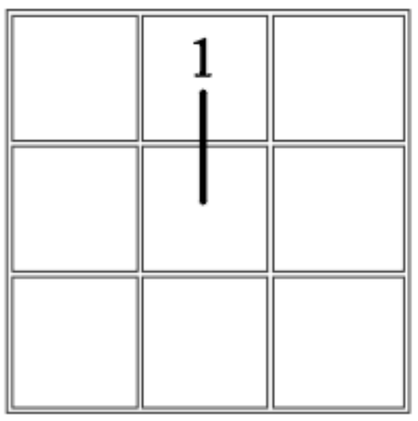


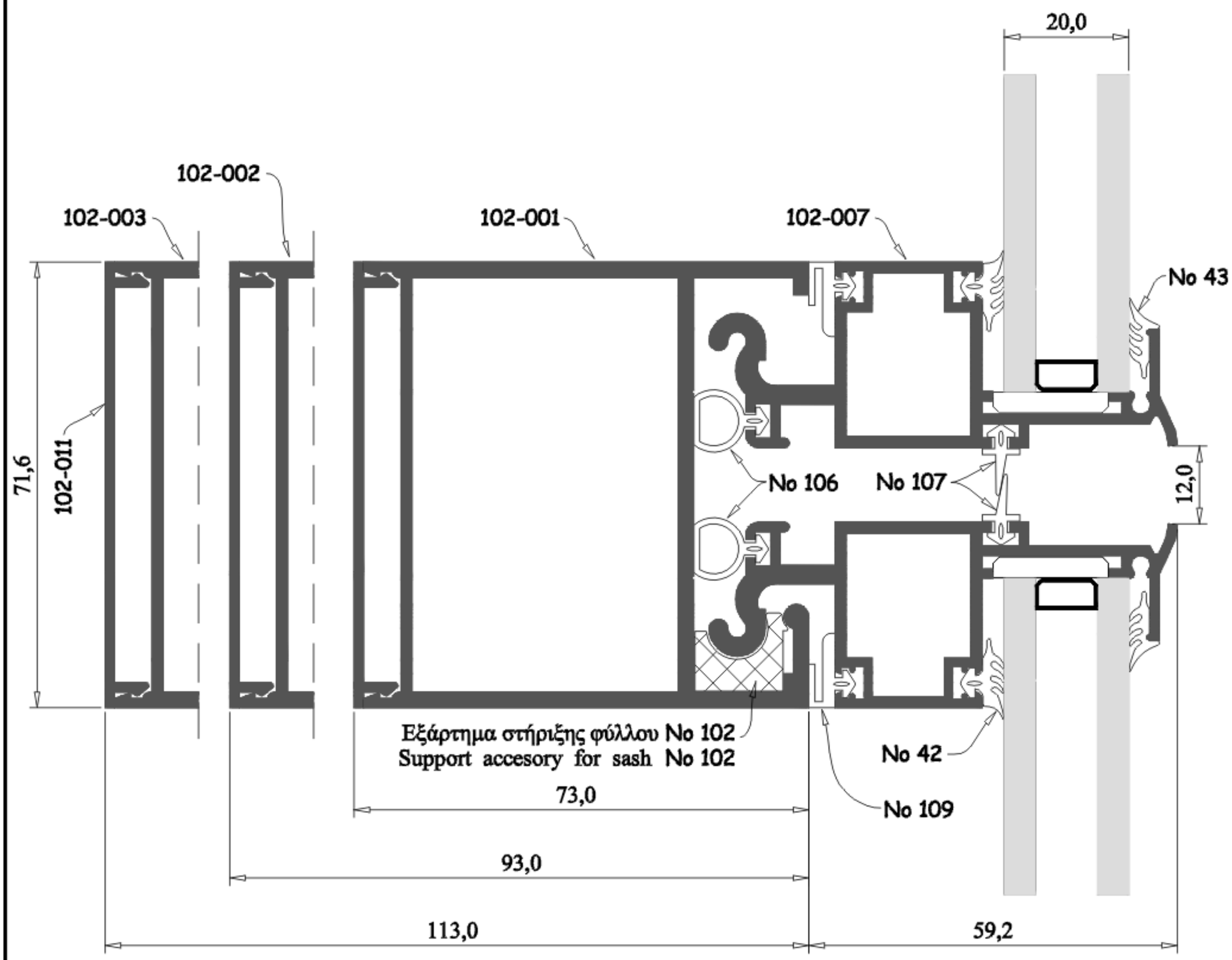
"Π" ΑΓΚΙΣΤΡΩΣΗΣ ΚΟΛΩΝΑΣ
MULLION BRACKET

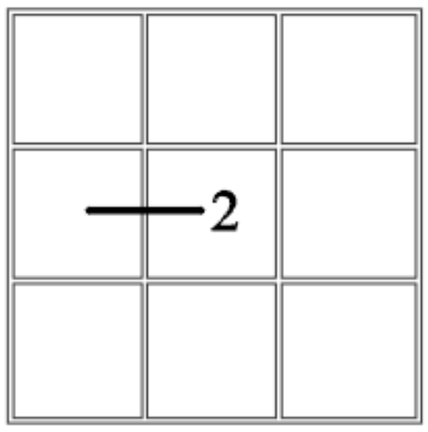
102-045

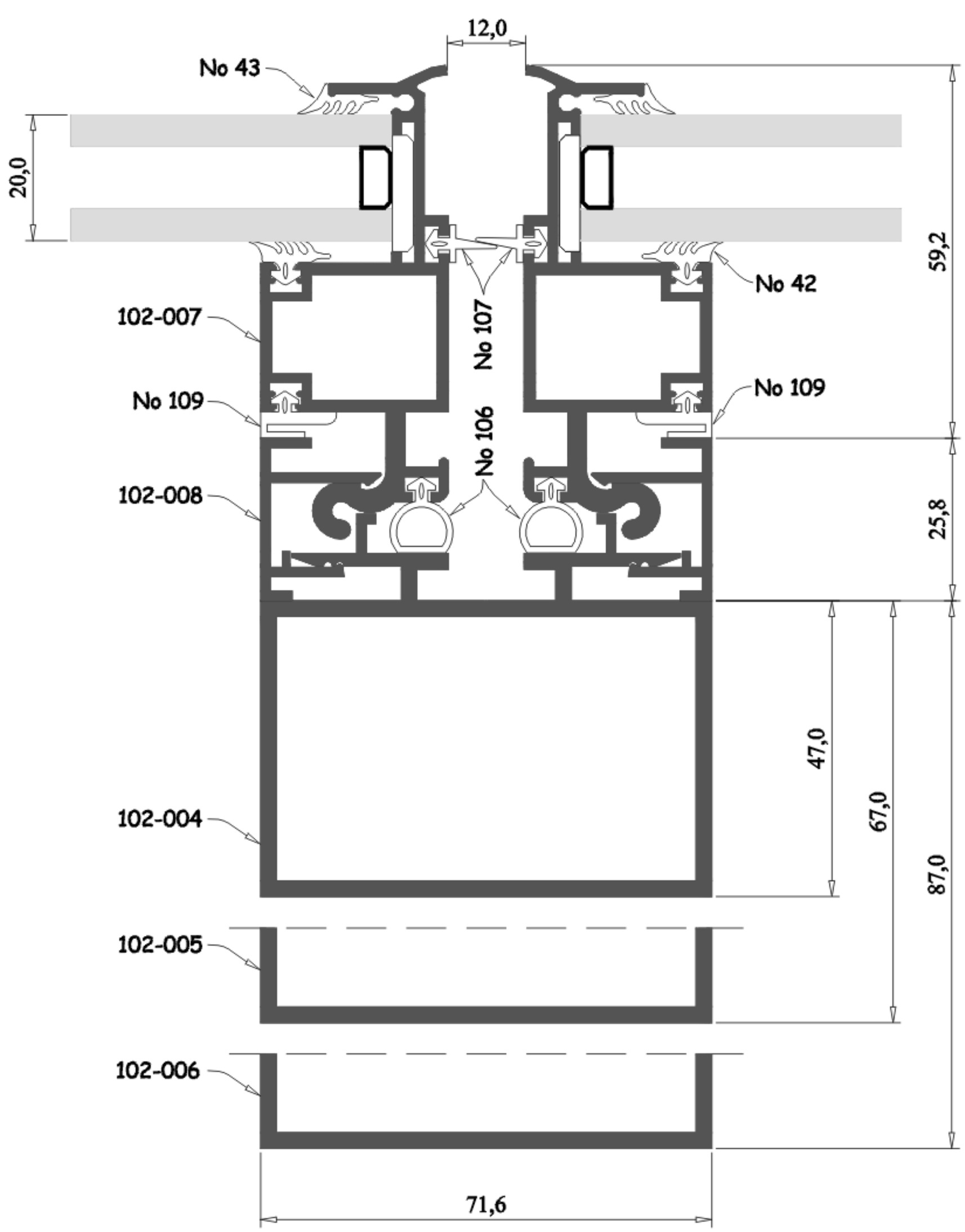
W=3651 gr/m

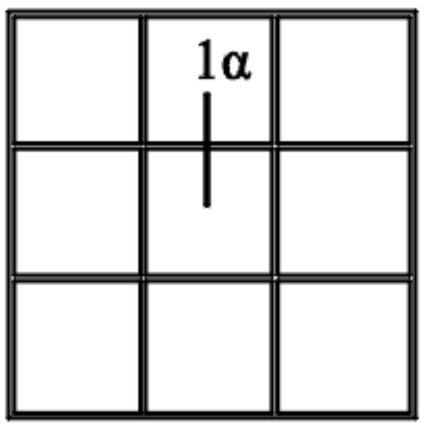


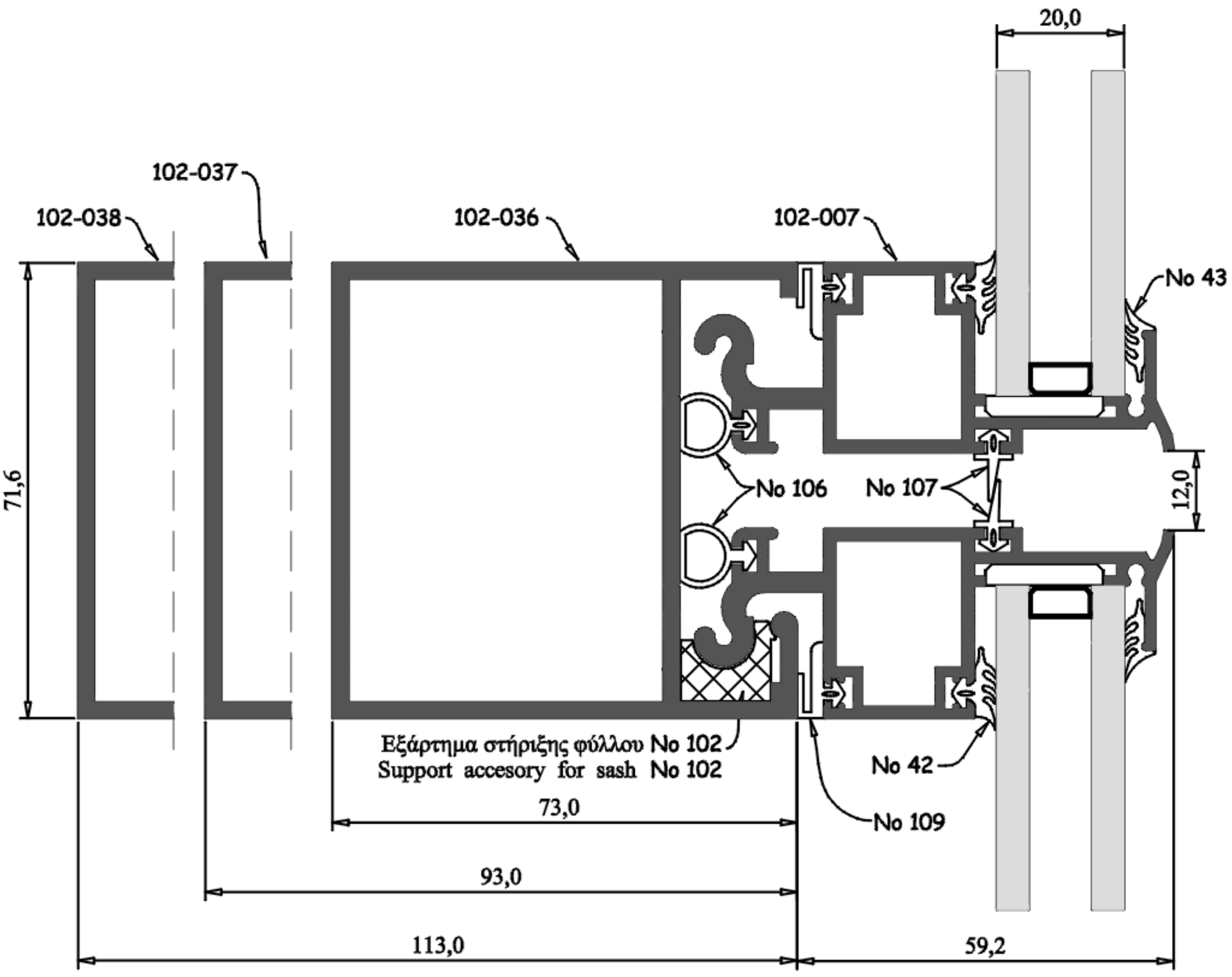

1

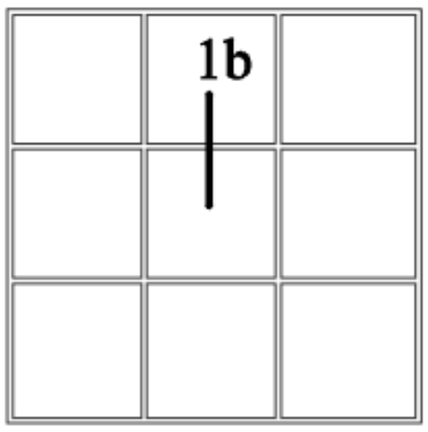

20,0
102-002
102-003
102-001
102-007
No 43
71,6
102-011
No 106
No 107
12,0
Εξάρτημα στήριξης φύλλου No 102
Support accesory for sash No 102
No 42
73,0
No 109
93,0
113,0
59,2

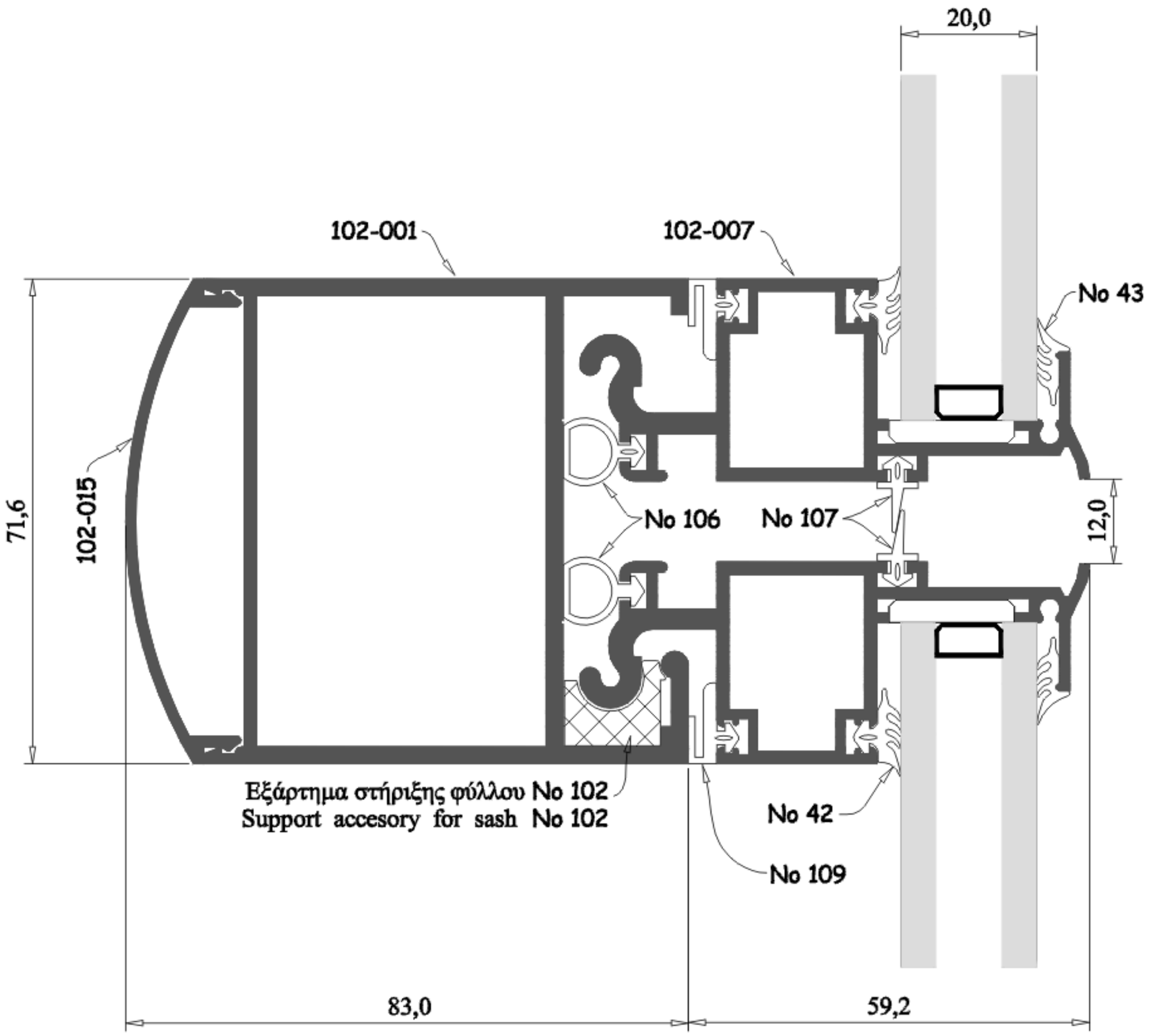

2

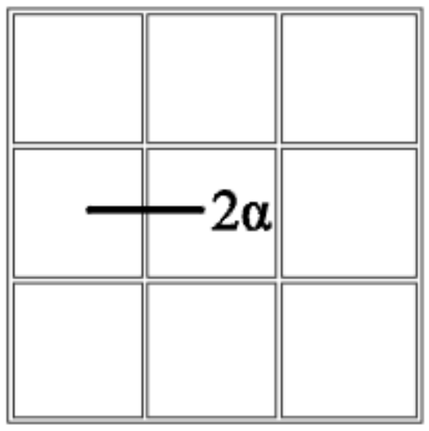

12,0
No 43
20,0
59,2
No 42
102-007
No 107
No 109
No 109
No 106
102-008
25,8
47,0
67,0
87,0
102-004
102-005
102-006
71,6

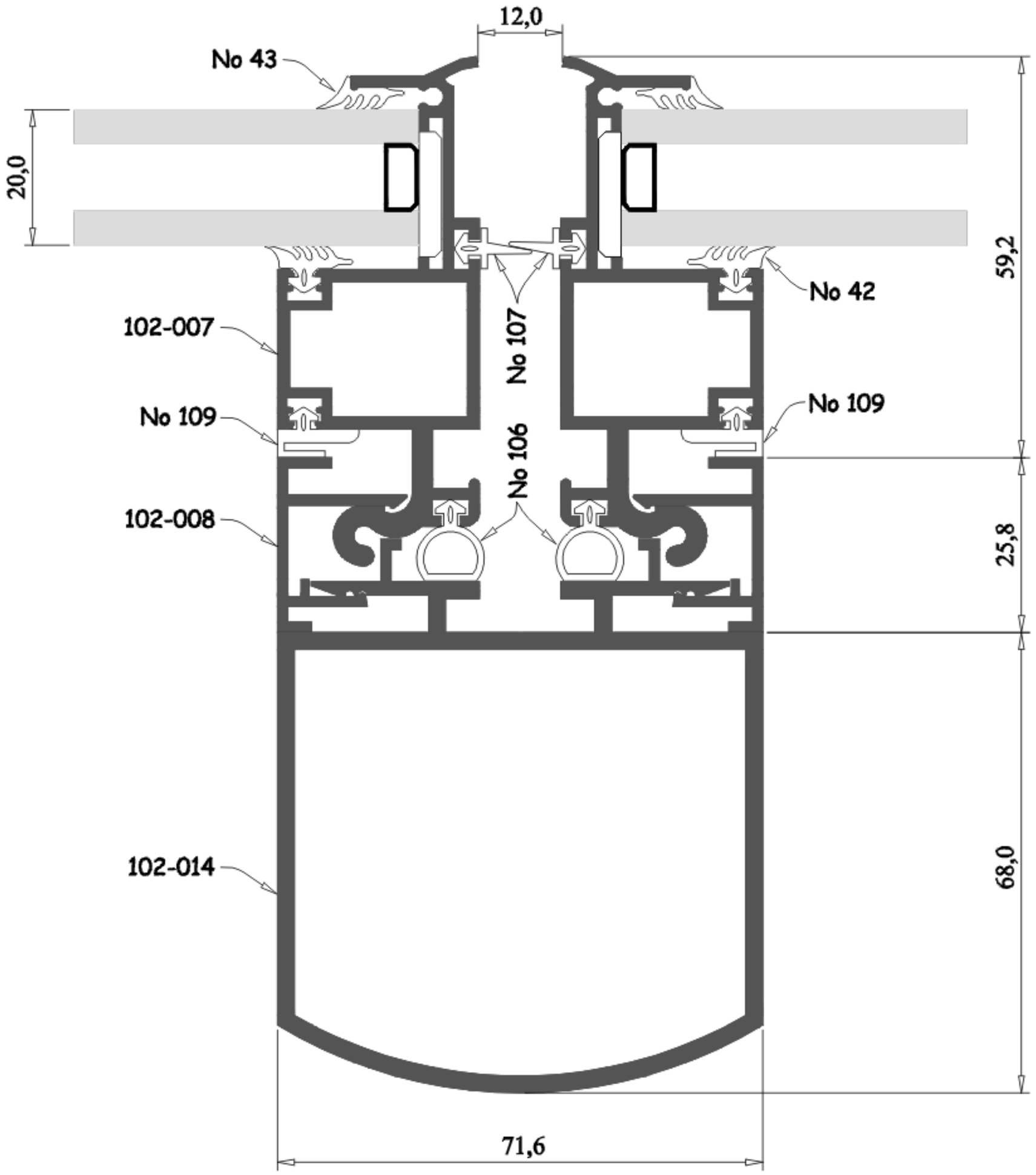

1α


102-037
102-038
102-036
102-007
20,0
No 43
71,6
No 106
No 107
12,0
Εξάρτημα στήριξης φύλλου No 102
Support accesory for sash No 102
No 42
No 109
73,0
93,0
113,0
59,2


1b


20,0
102-001
102-007
No 43
71,6
102-015
No 106
No 107
12,0
Εξάρτημα στήριξης φύλλου No 102
Support accesory for sash No 102
No 42
No 109
83,0
59,2


2α


12,0
No 43
20,0
59,2
No 42
102-007
No 107
No 109
No 109
No 106
102-008
25,8
102-014
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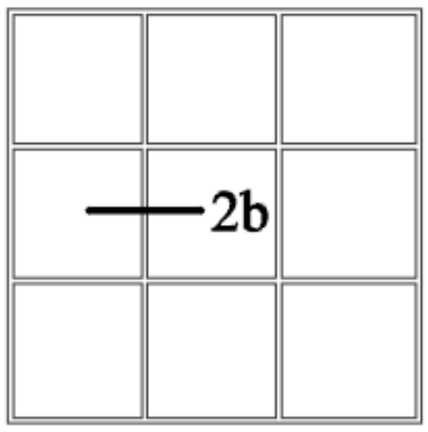
71,6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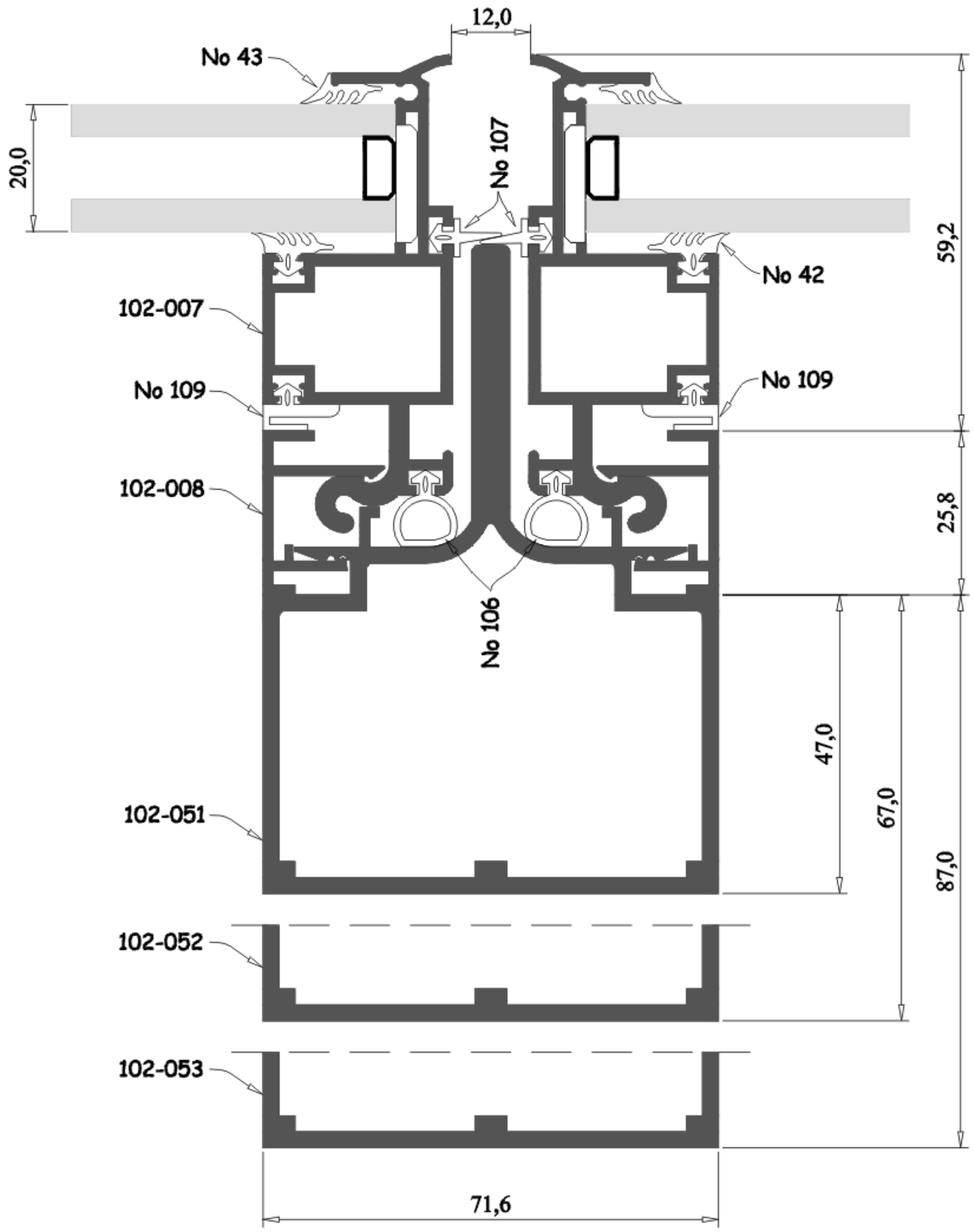
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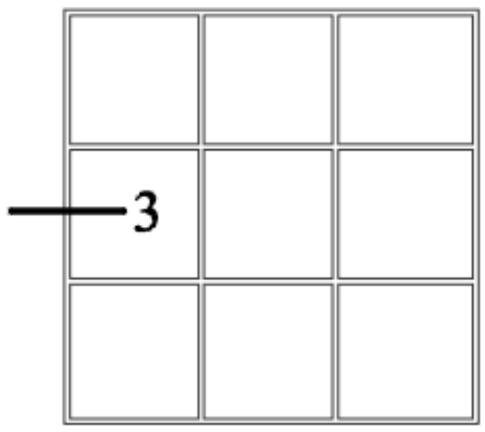
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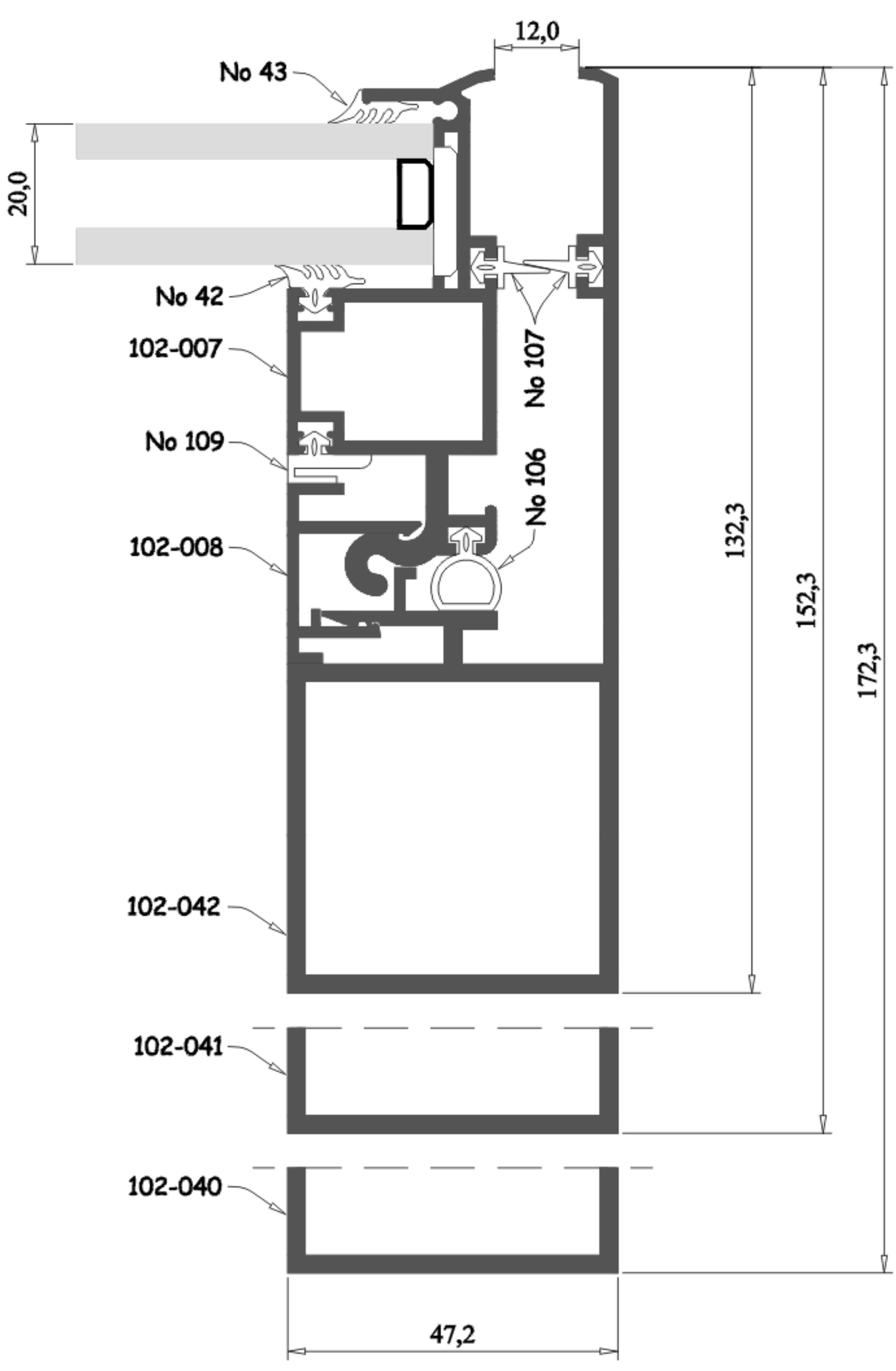
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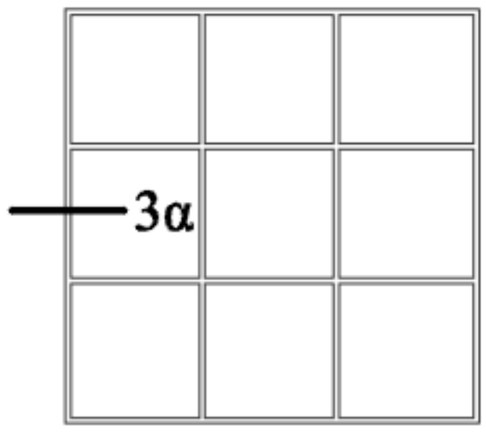
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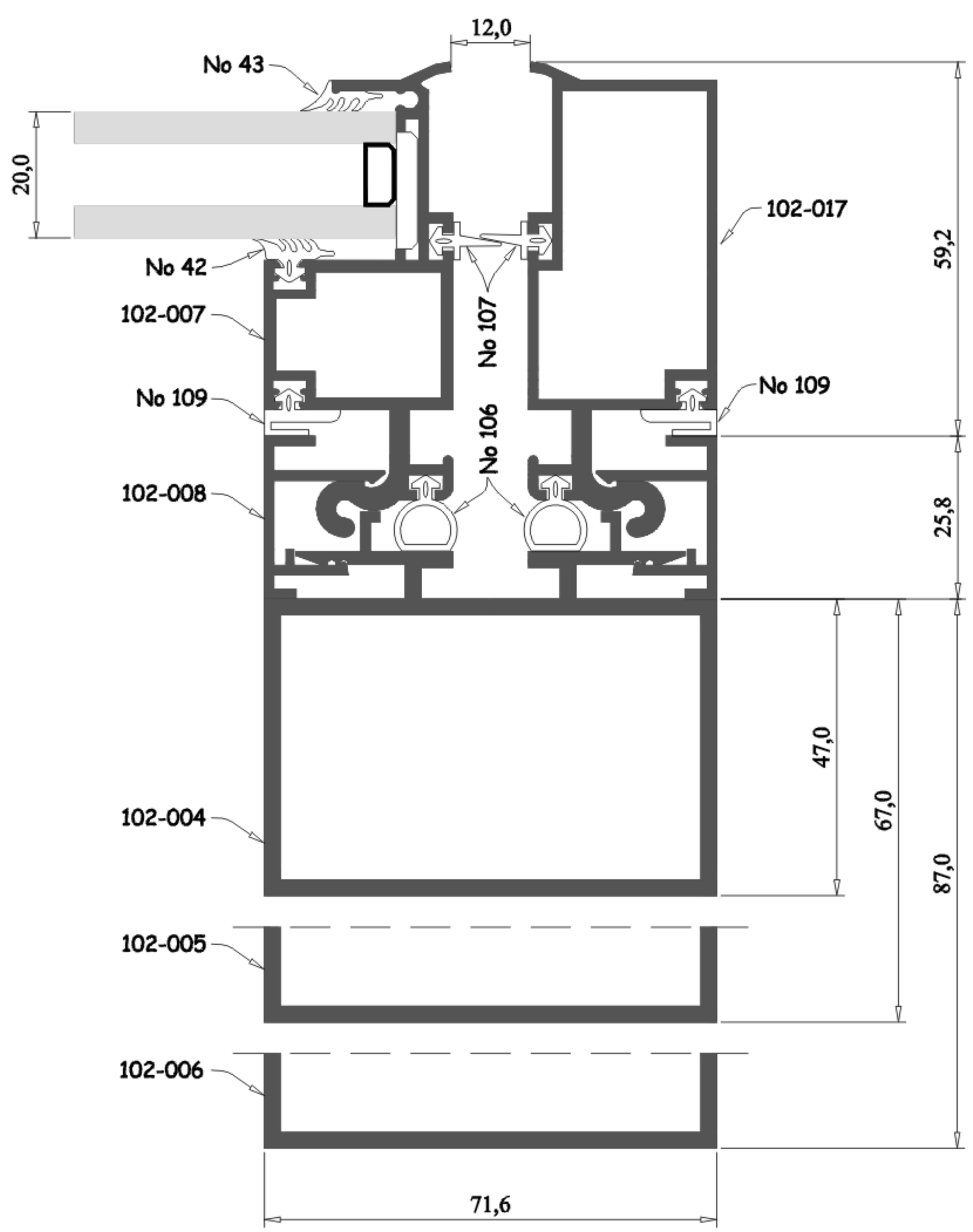
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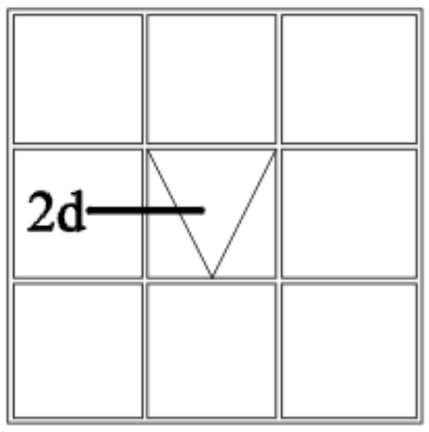
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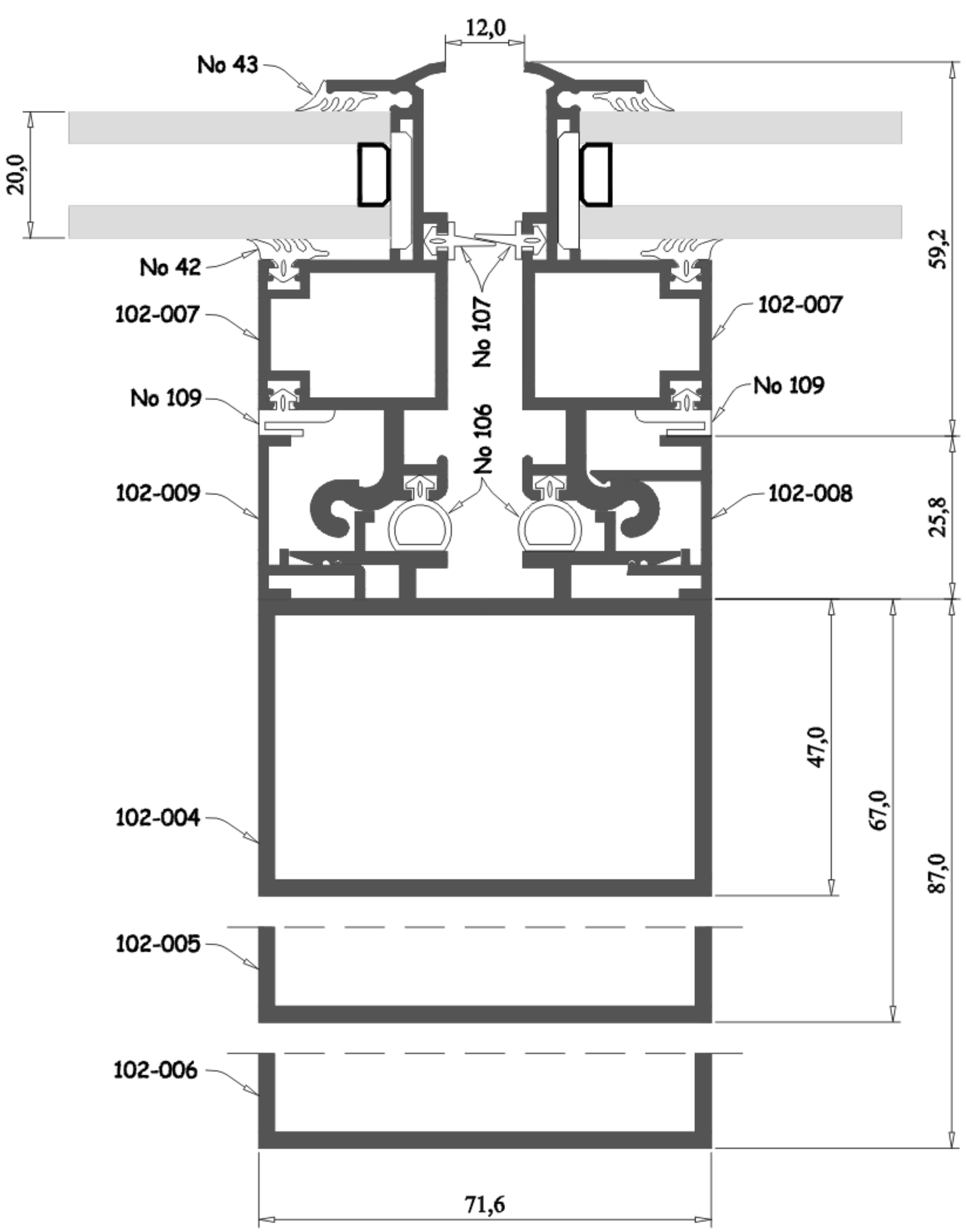
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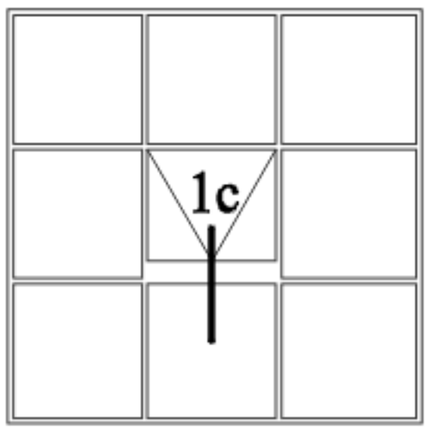
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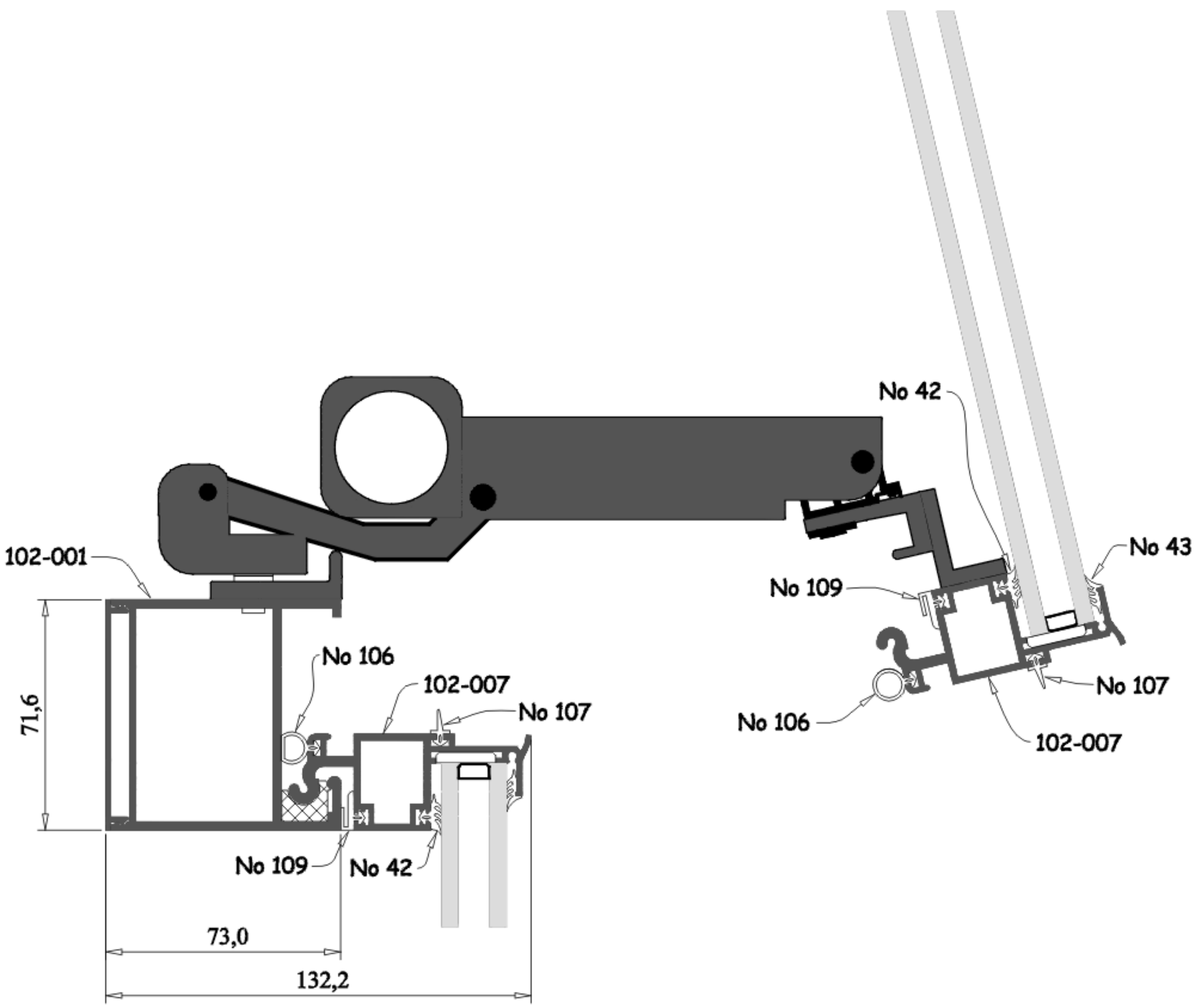
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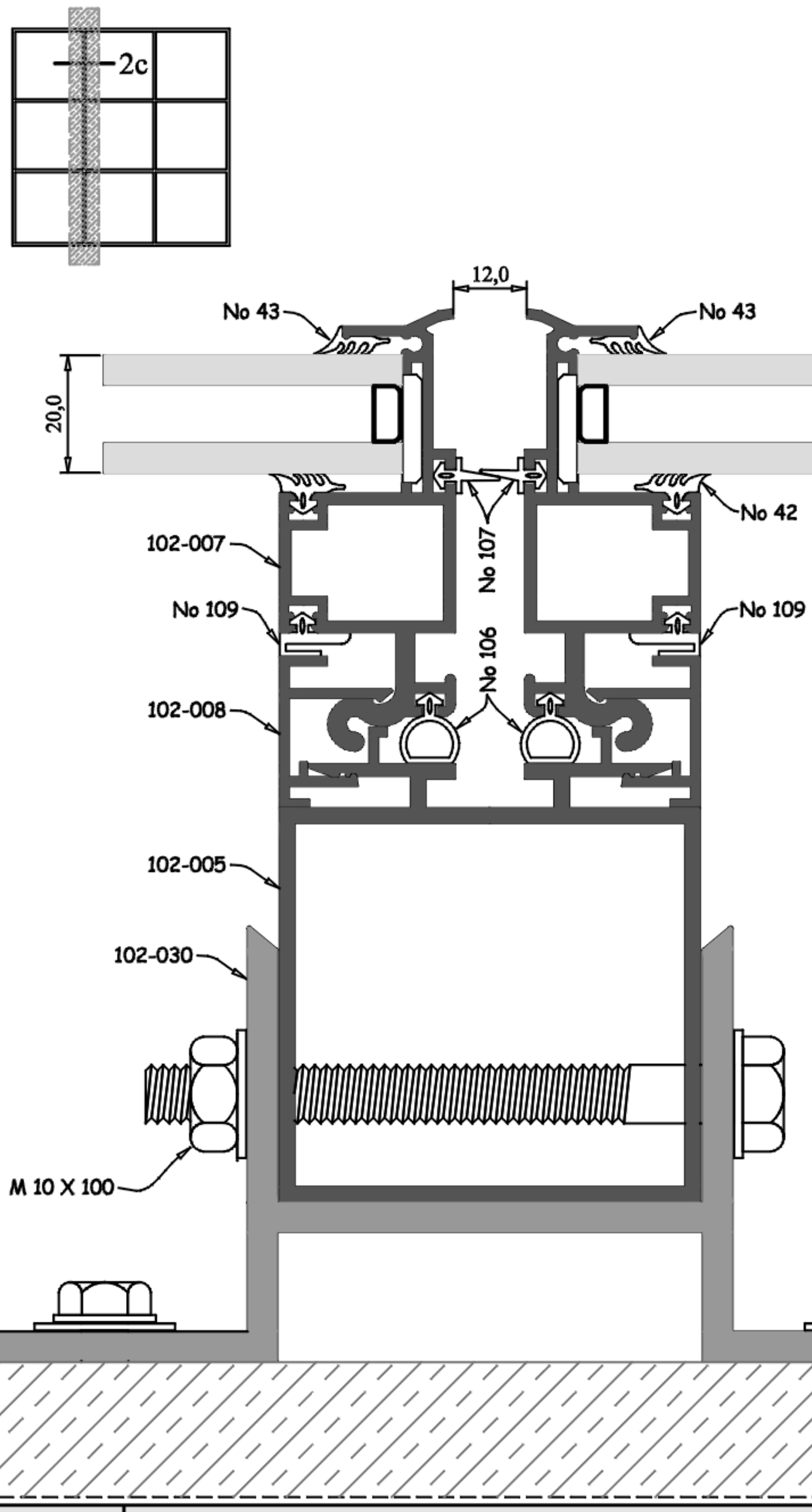

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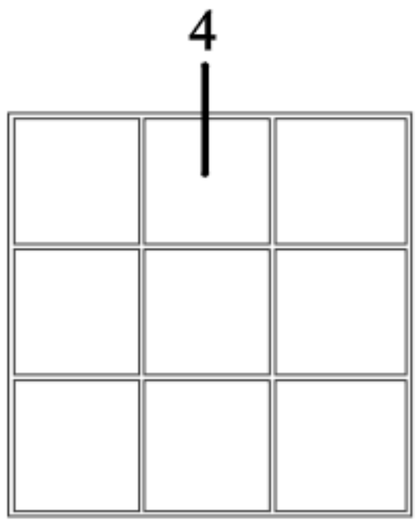
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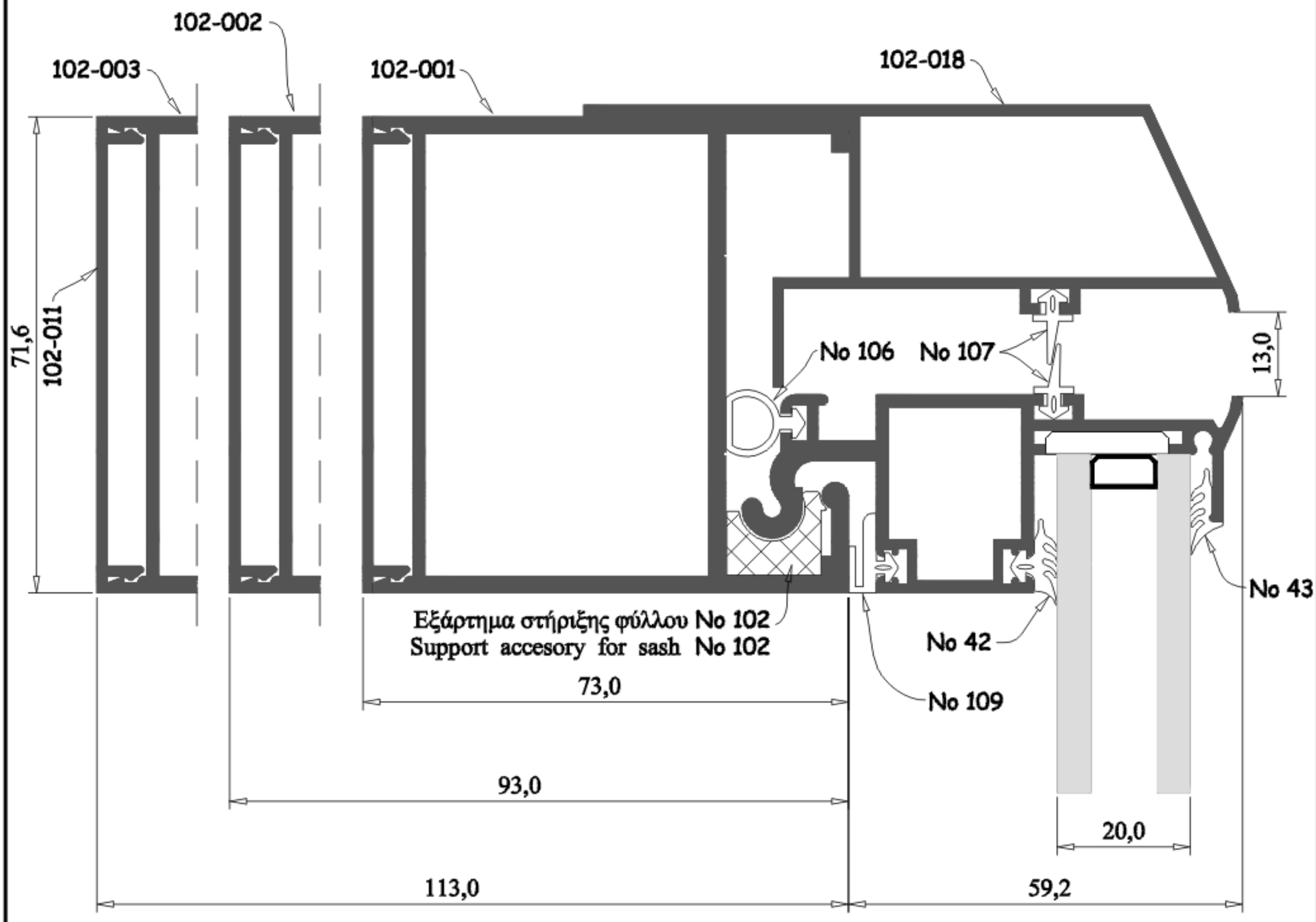
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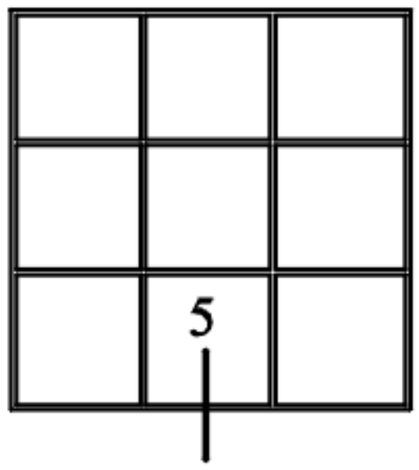
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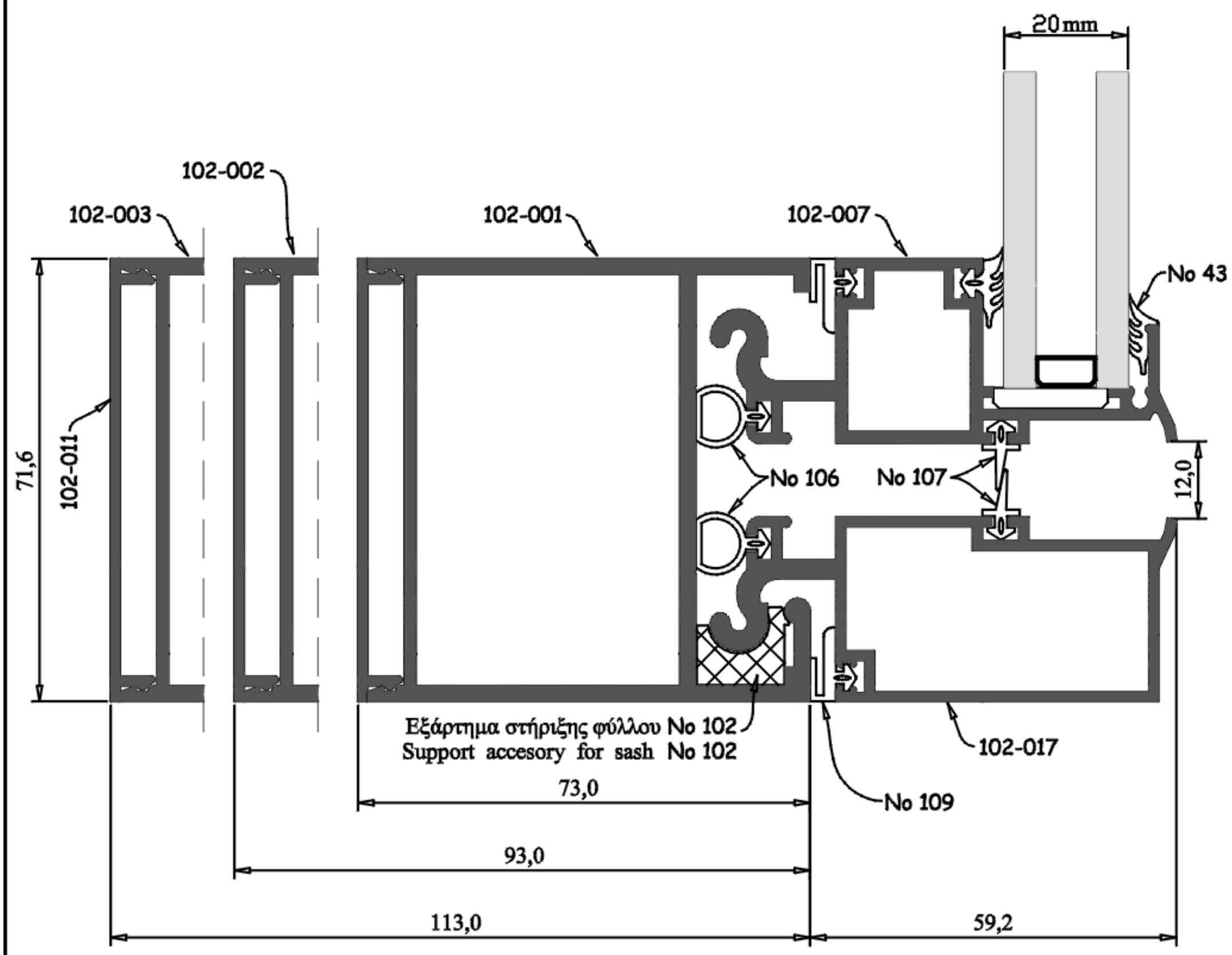
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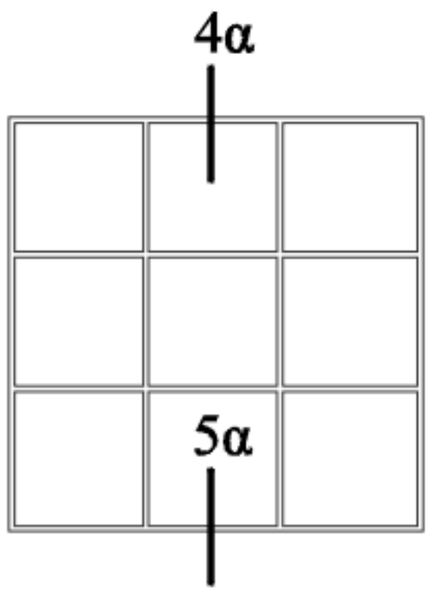
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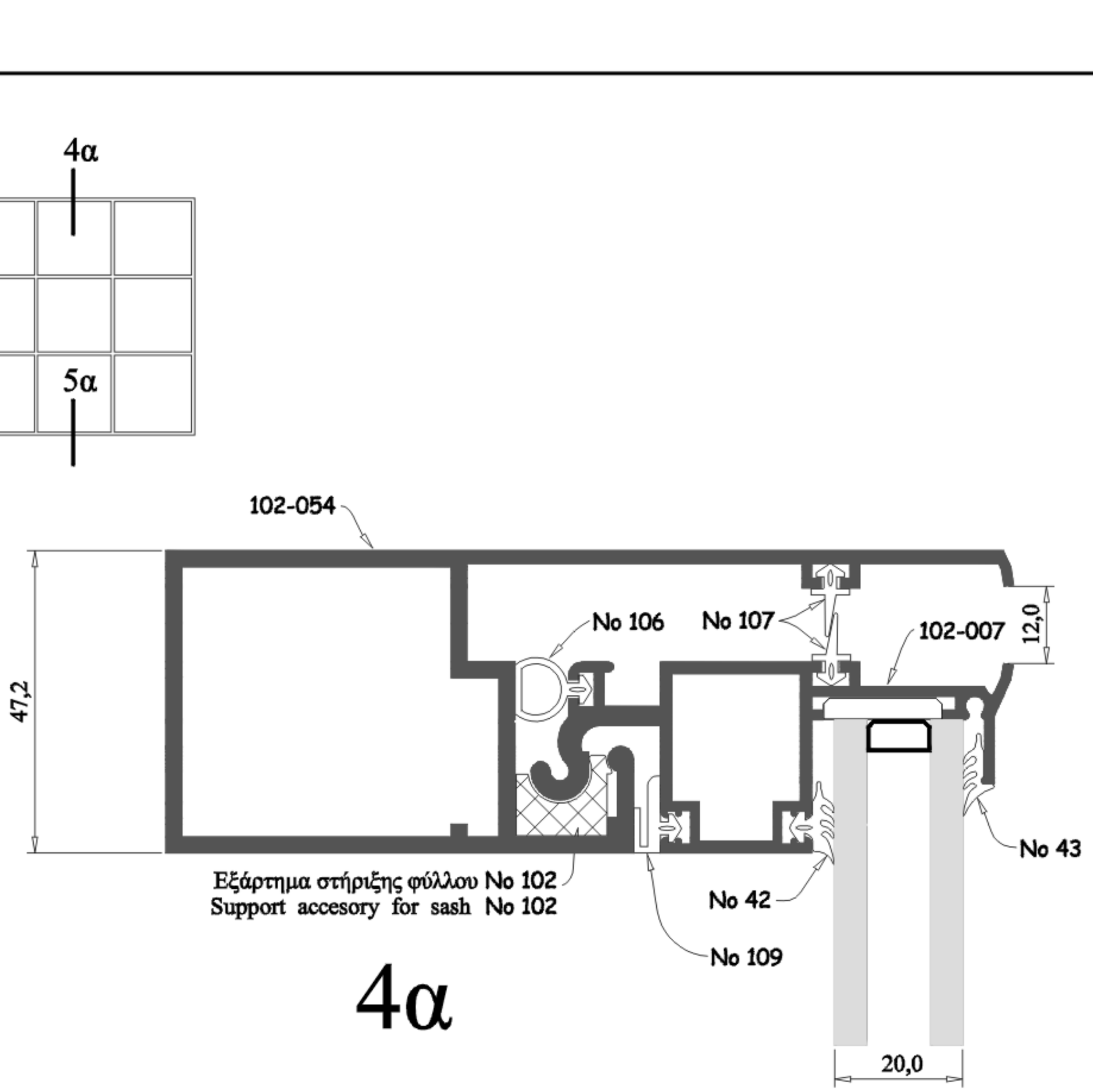
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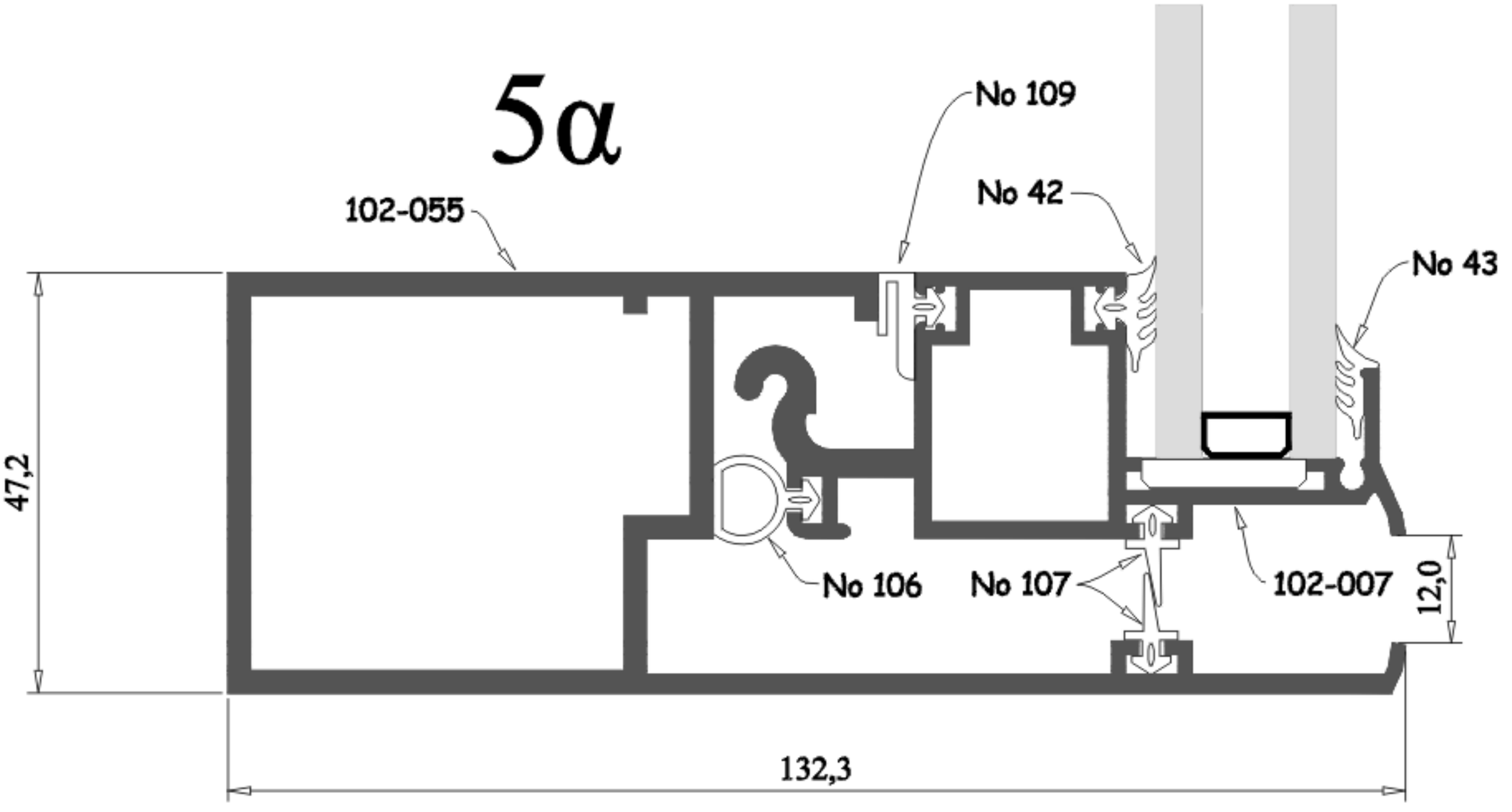
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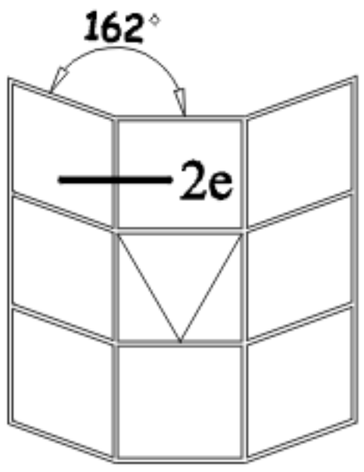
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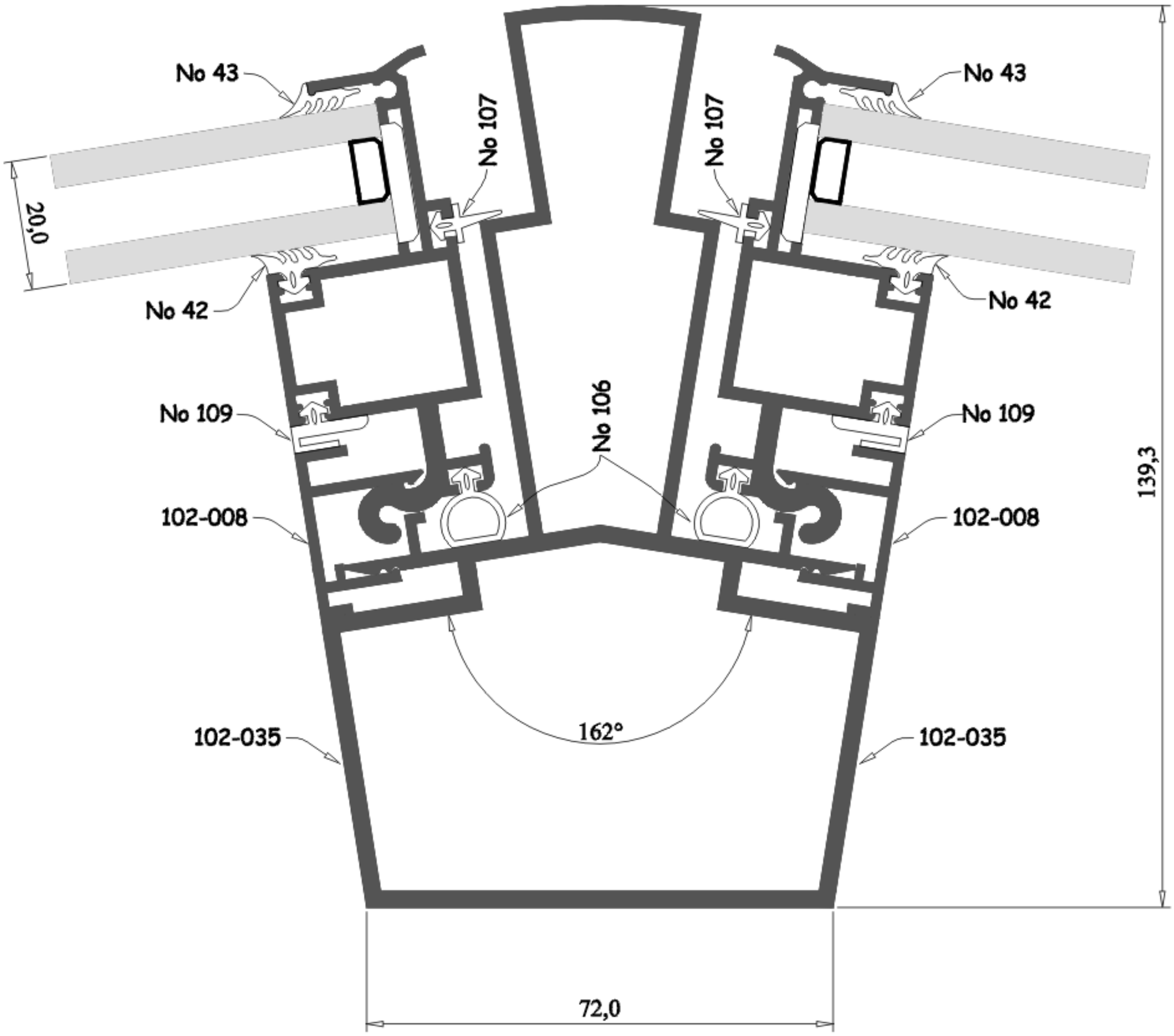
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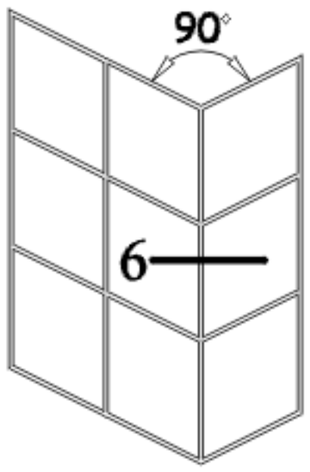
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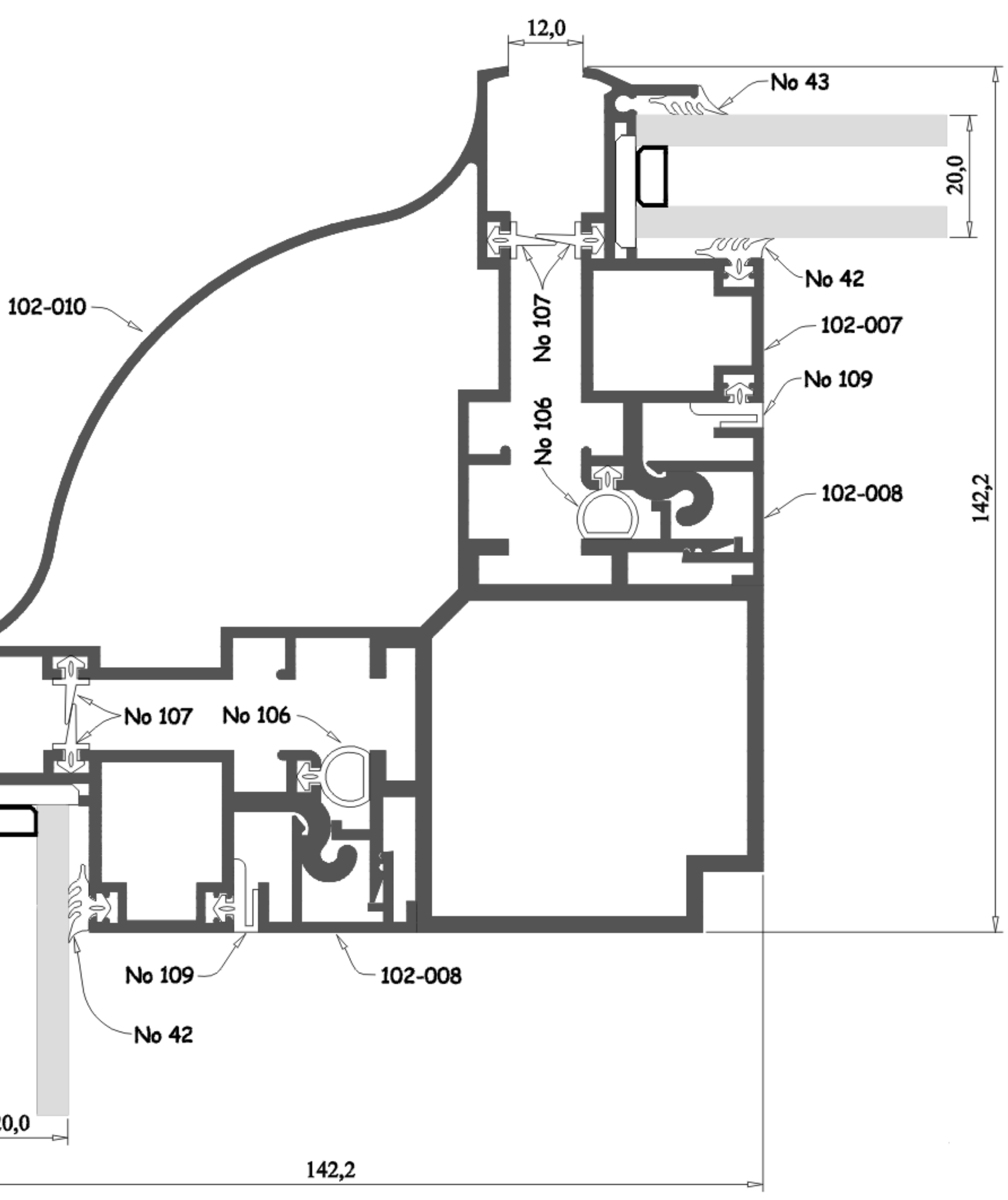
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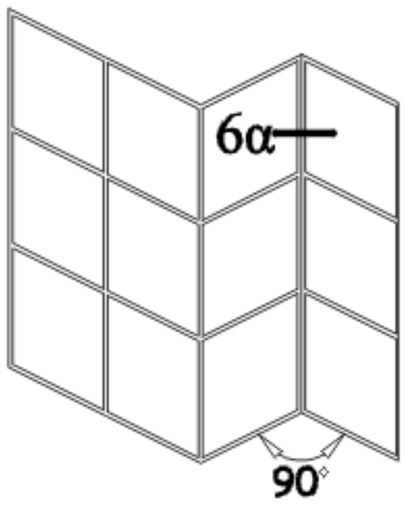
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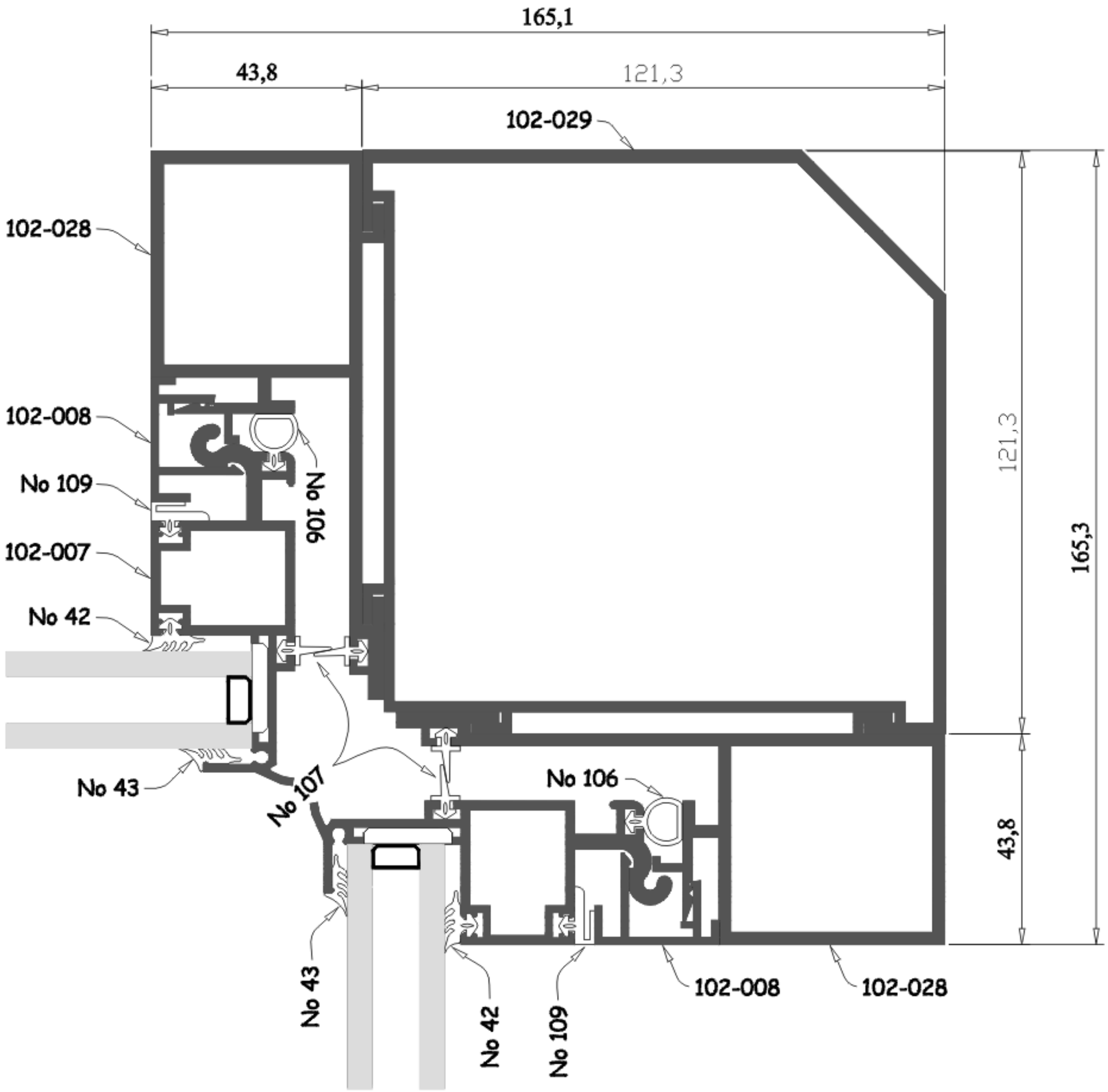
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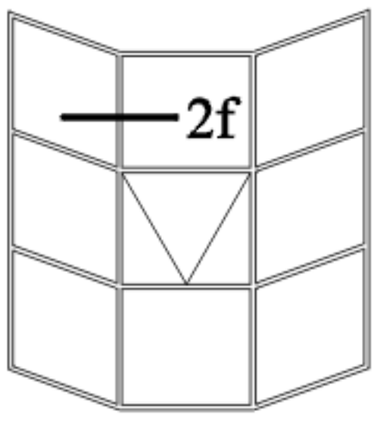
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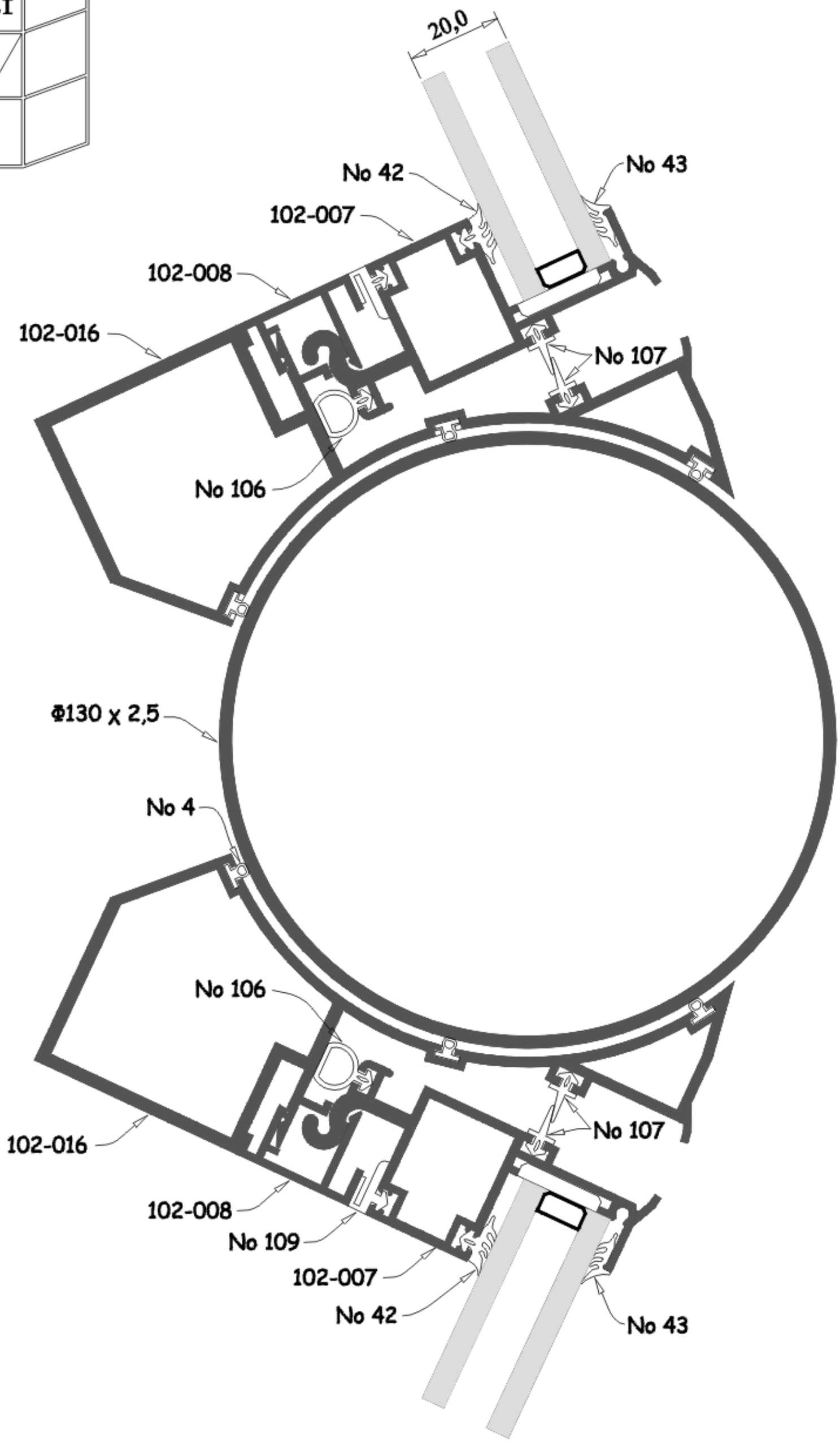
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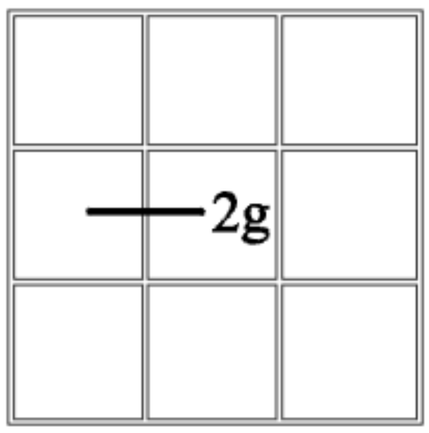
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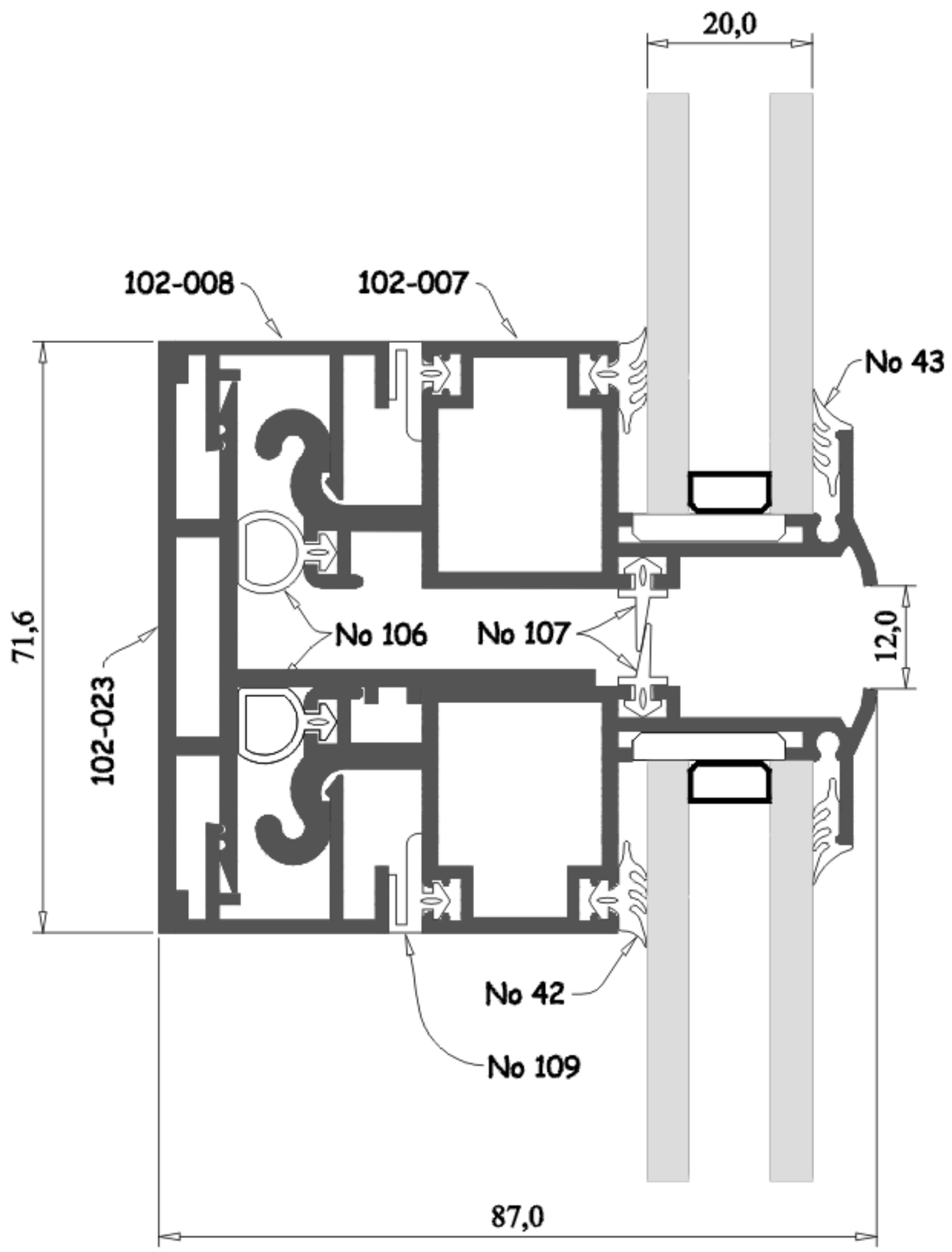
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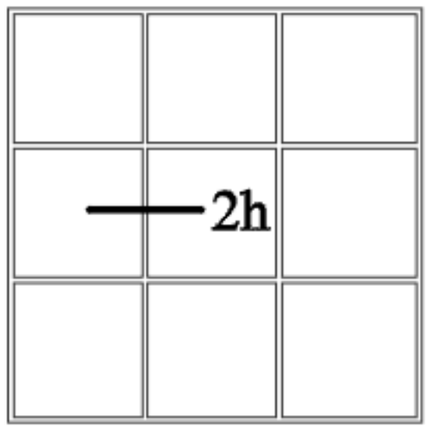
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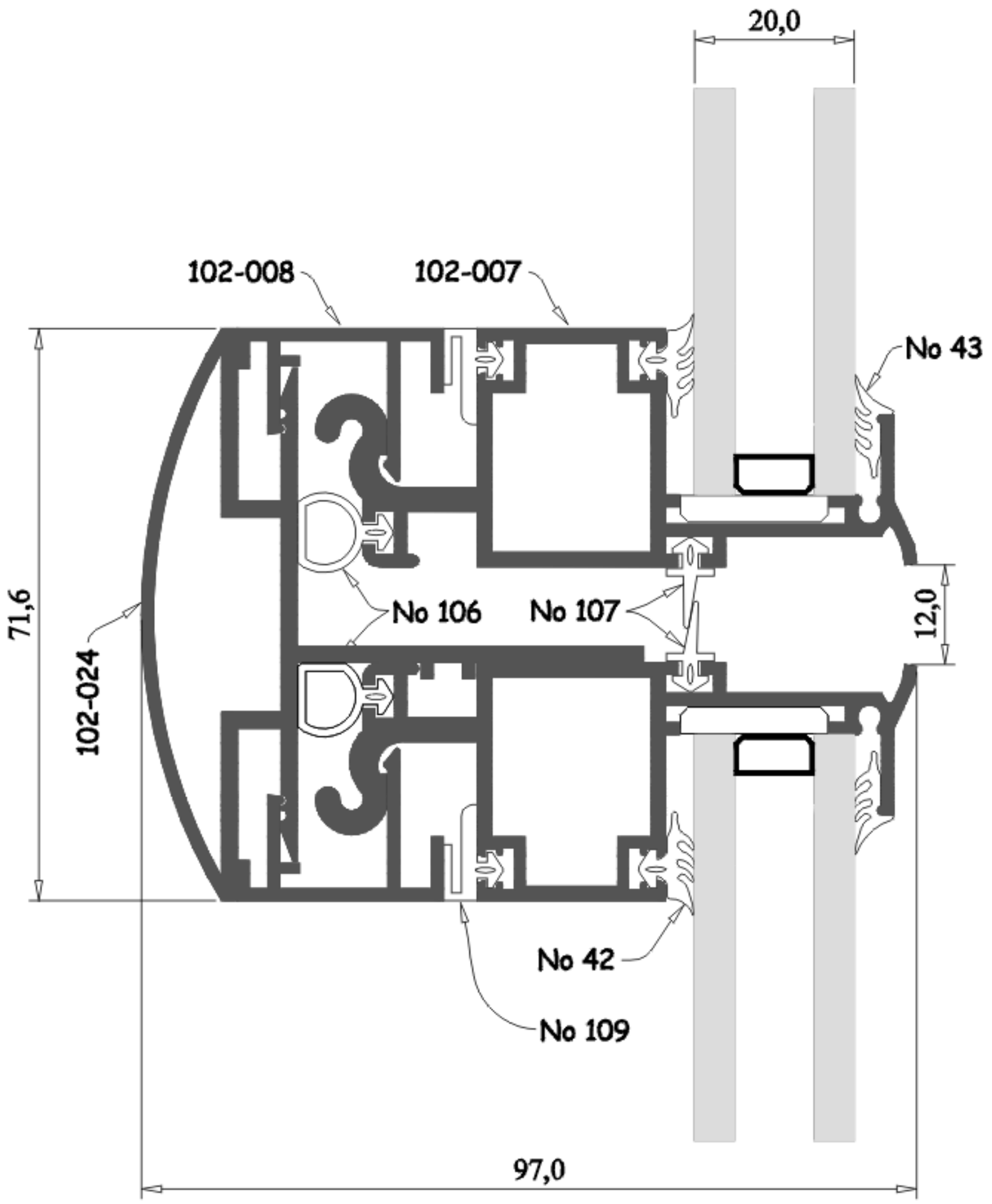
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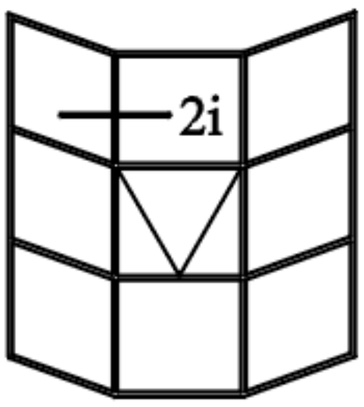
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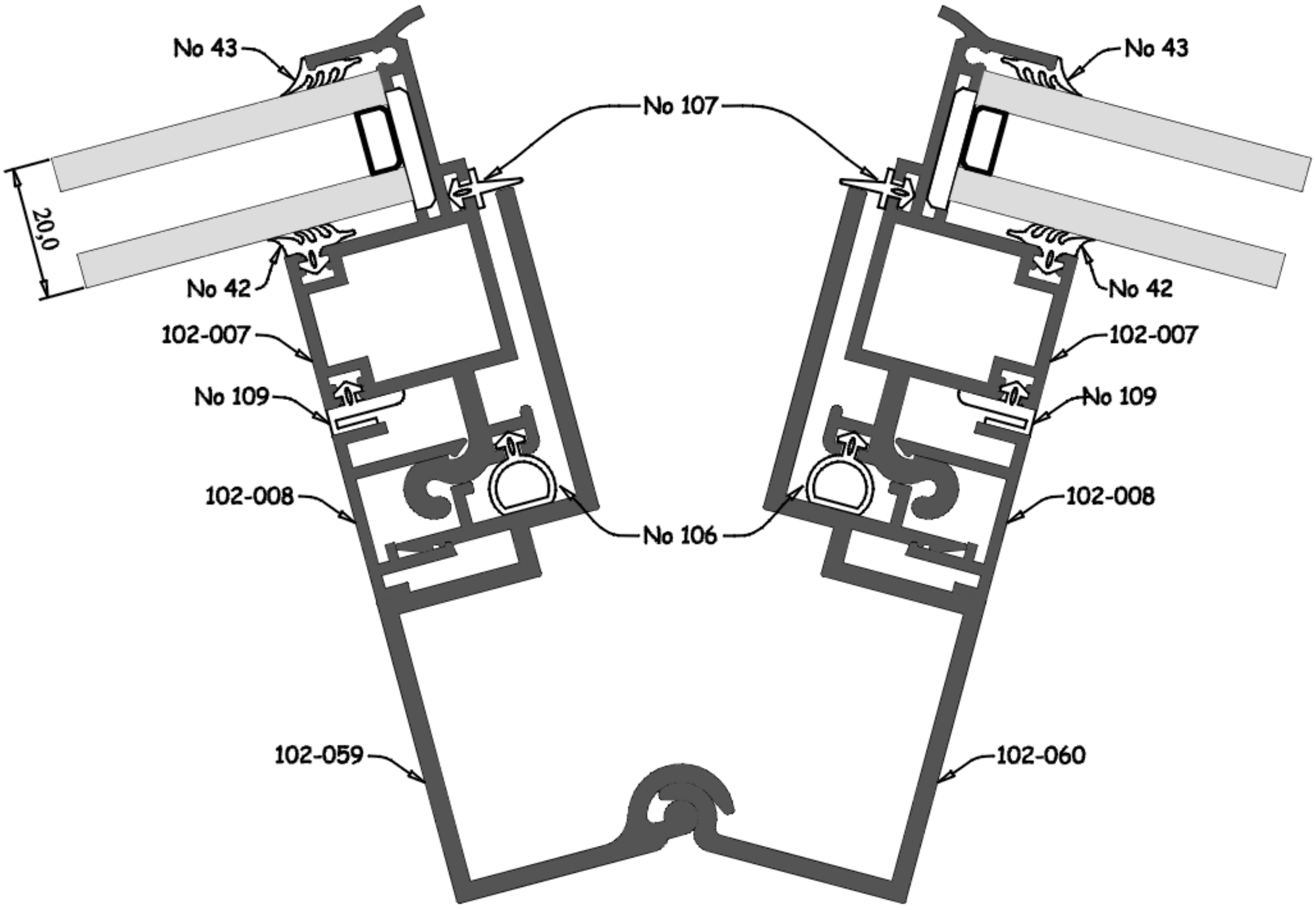
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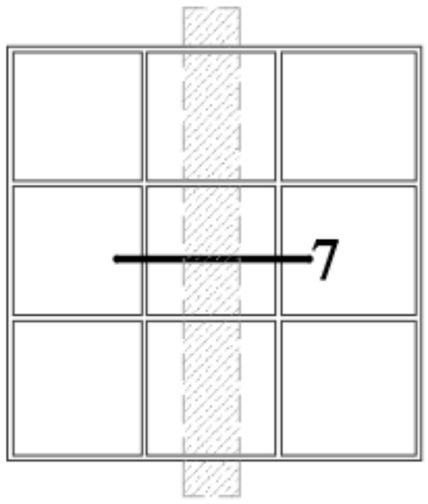
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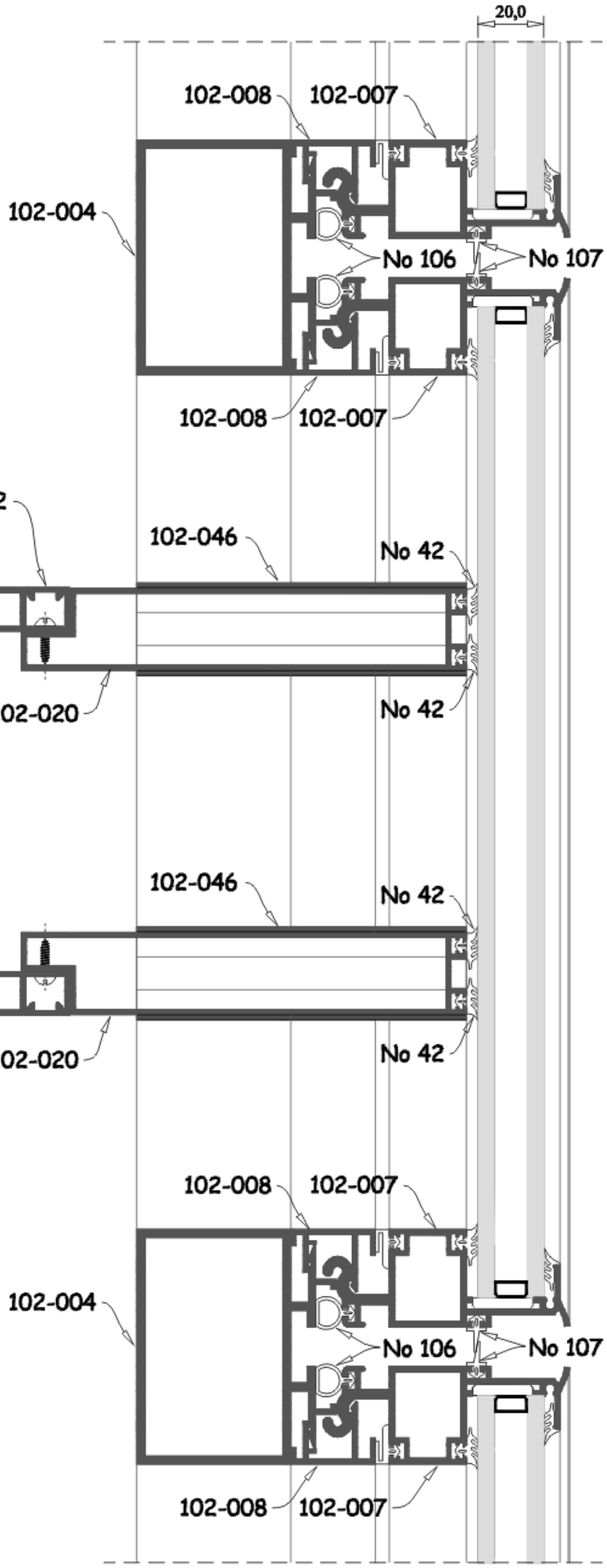
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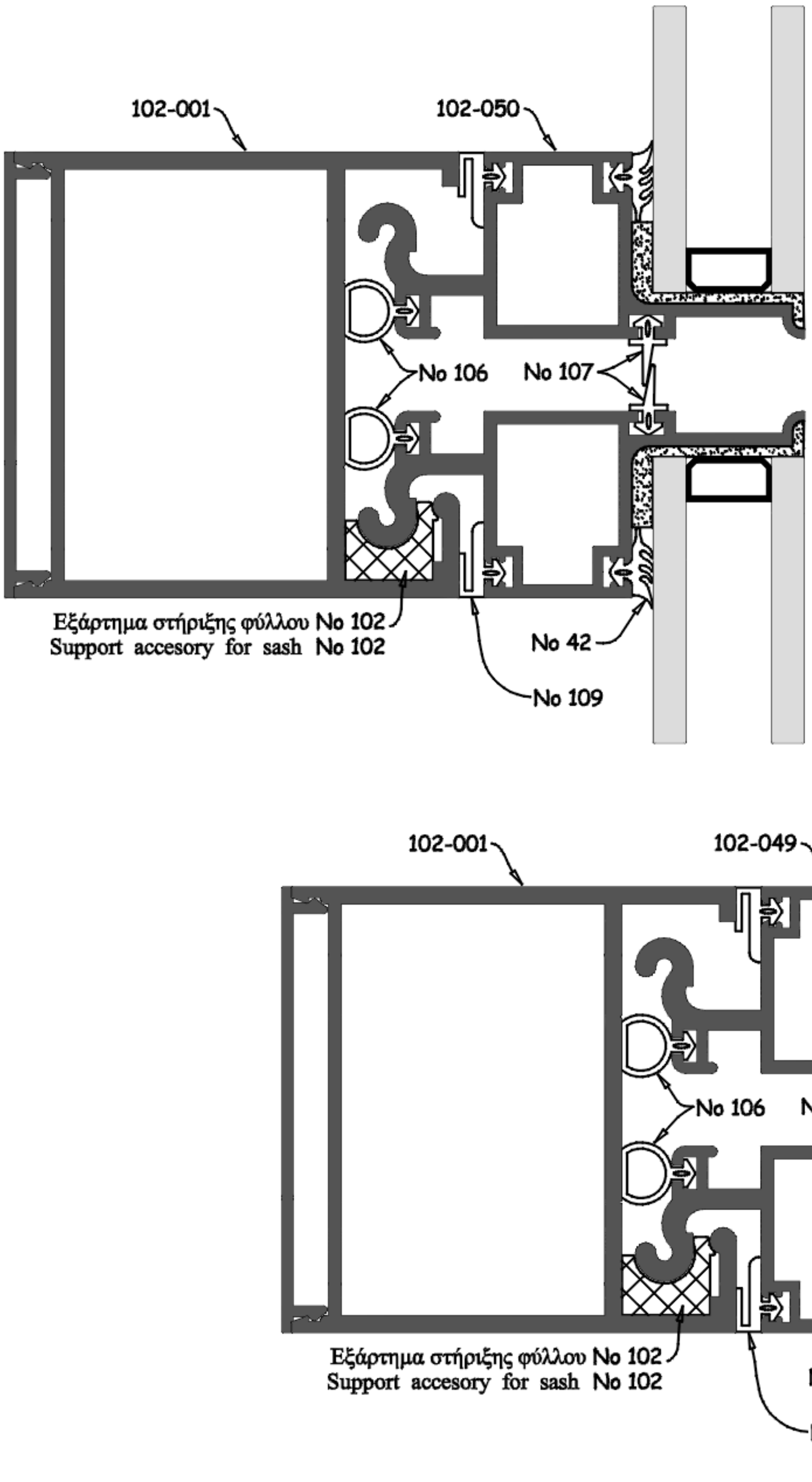
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Support accesory for sash No 102
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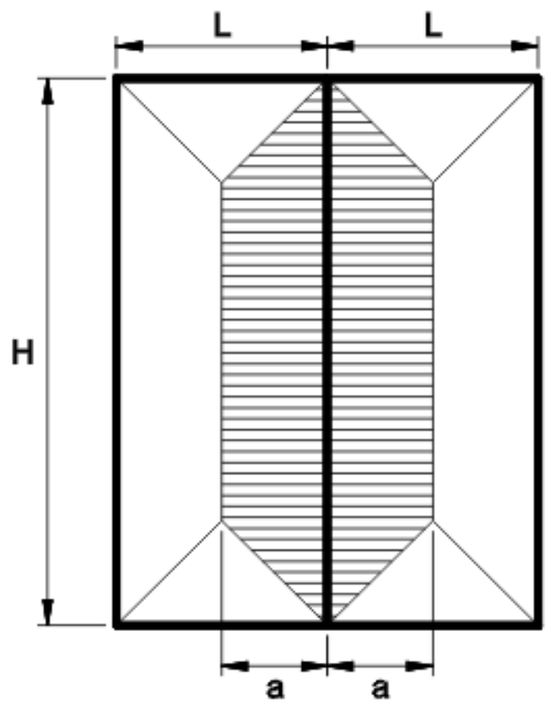
102-049
102-048
No 106
No 107
Εξάρτημα στήριξης φύλλου No 102
Support accesory for sash No 102
No 42
No 109

ΕΠΙΛΟΓΗ ΤΟΥ ΚΑΤΑΛΛΗΛΟΥ ΠΡΟΦΙΛ ΤΗΣ ΒΑΣΙΚΗΣ ΚΟΛΩΝΑΣ

SELECTION OF THE APPROPRIATE PROFILE FOR THE BASIC MULLION

Η επιλογή του κατάλληλου προφίλ κολώνας βασίζεται στη συνθήκη για το μέγιστο βέλος κάμψης αμφιέρειστης δοκού με τραπεζοειδές κατανεμημένο φορτίο. Δηλαδή: $f \leq H/300 \leq 8mm$. Από αυτή τη συνθήκη προέκυψε ο ακόλουθος τύπος για την απαιτούμενη ροπή αδράνειας της διατομής της κολώνας.

The selection of the proper mullion profile was based on the condition for the maximum acceptable deflection of a beam supported at two points $f \leq H/300 \leq 8mm$. The following formula for the necessary moment of inertia results from this condition.



$$J_{min} = \frac{q_W \cdot a \cdot H^4}{1920 \cdot E \cdot f_{max}} \cdot \left[25 - 40 \cdot \frac{a^2}{H^2} + 16 \cdot \frac{a^4}{H^4} \right]$$

J_{min}	= Ροπή αδράνειας	Moment of Inertia
q_w	= Φορτίο ανεμοπίεσης	Wind load
a	= Πλάτος L/2	Width L/2
H	= Ύψος κολώνας	Mullion height
E	= Μέτρο ελαστικότητας	Elasticity module
f_{max}	= Μέγιστο βέλος κάμψης	Maximum deflection

Πριν από οποιοδήποτε βήμα για την επιλογή του προφίλ της κολώνας, θα πρέπει ο μελετητής να επιλέξει τη σωστή κατηγορία για το φορτίο ανεμοπίεσης που θα χρησιμοποιηθεί, ανάλογα με το ύψος της κατασκευής και το αν είναι εκτεθειμένη στον άνεμο.

The first step of the selection of the proper mullion profile must be the selection of the appropriate category from the wind load table, depending on the construction height and the exposure of the structure in wind pressure.

ΥΨΟΣ ΚΑΤΑΣΚΕΥΗΣ Structure Height	**Ανεμοπίεση w** Wind pressure w	**Φορτίο ανεμοπίεσης q_w** Wind load q_w **για c = 1,2**	**Φορτίο ανεμοπίεσης q_w** Wind load q_w **για c = 1,6**
0 - 8 m	0,50 KN/m²	0,60 KN/m²	0,80 KN/m²
8 - 20 m	0,80 KN/m²	0,96 KN/m²	1,28 KN/m²

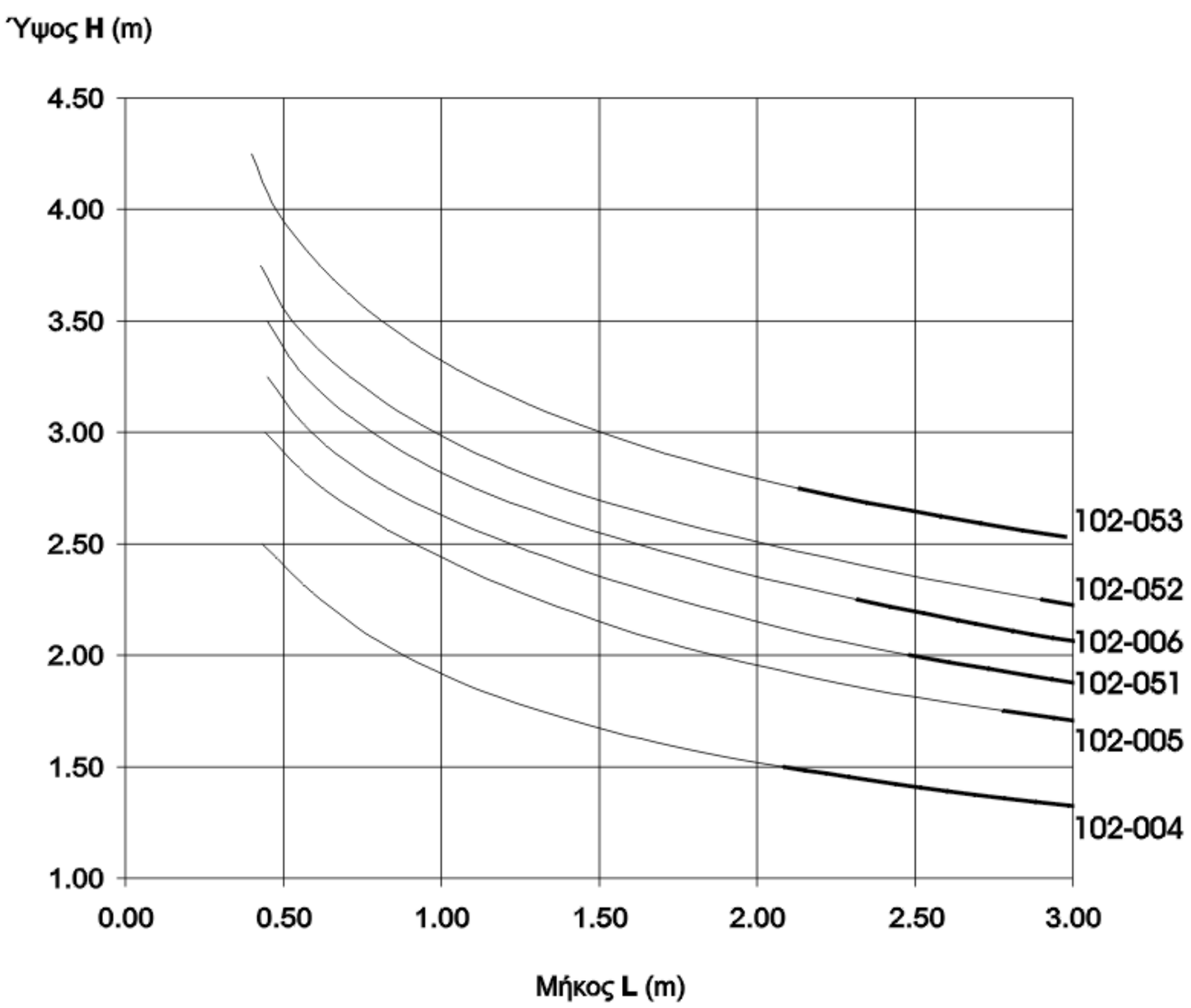
$q_w = c \cdot w$ **c = 1,2 για μη εκτεθειμένα στον άνεμο κτίρια** C = 1,2 for non wind-exposed buildings

c = 1,6 για εκτεθειμένα στον άνεμο κτίρια C = 1,6 for wind-exposed buildings

Ακολουθεί το διάγραμμα επιλογής προφίλ βασικής κολώνας για την περίπτωση κτιρίου μέχρι 8 μέτρα και εκτεθειμένο στον άνεμο.

The following diagram concerns the mullion profile selection for a 0 to 8 meter high building, which is also wind-exposed.

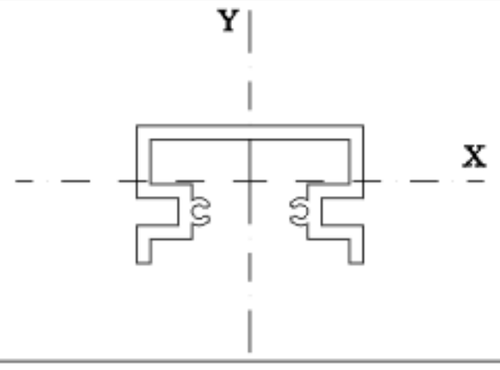
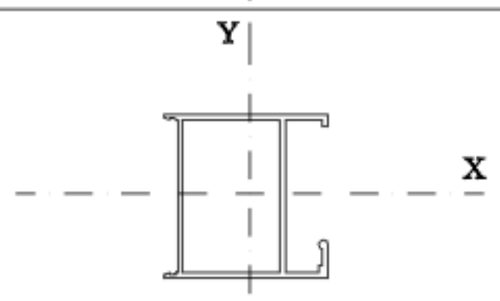
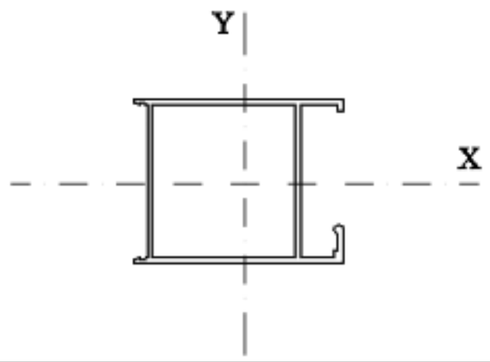
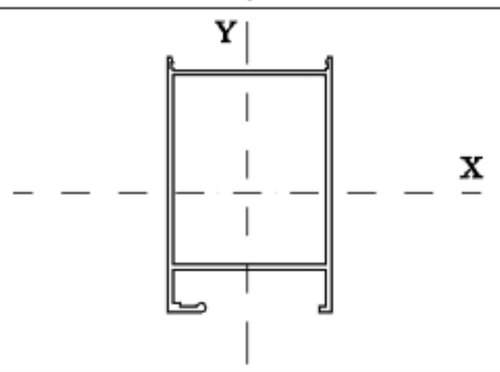
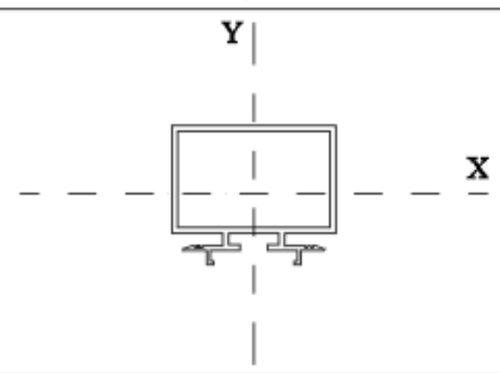
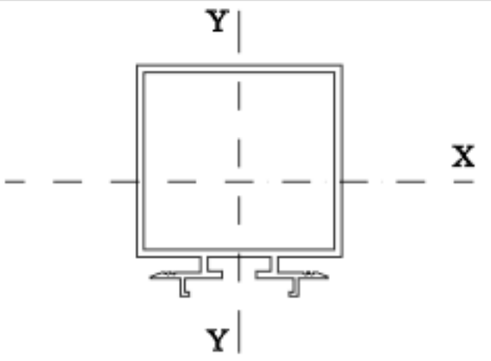
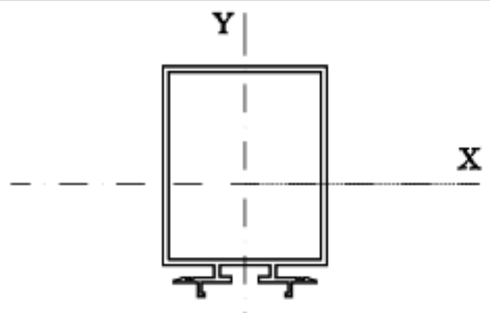
Διάγραμμα επιλογής βασικής κολώνας υαλοπετάσματος
Φορτίο Ανεμοπίεσης, Wind load : $q_w = 0,80$ KN/m²



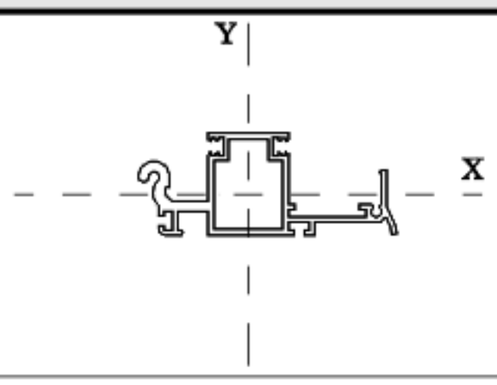
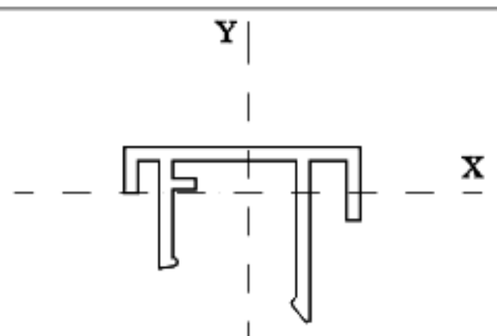
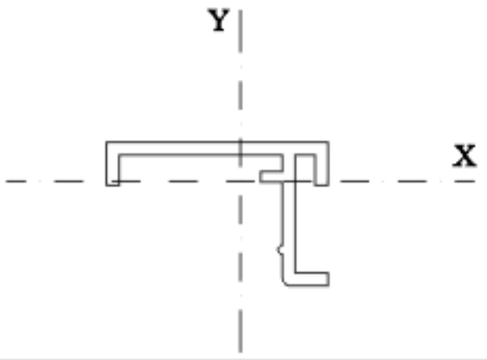
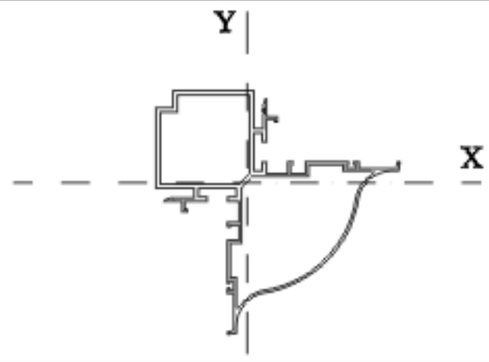
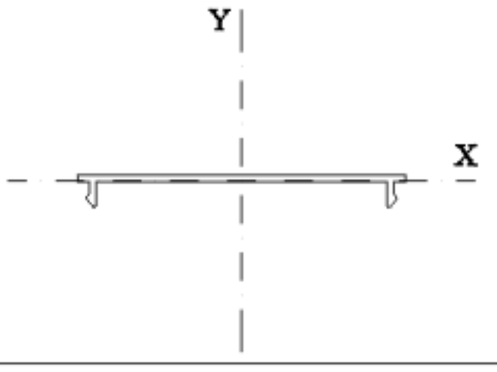
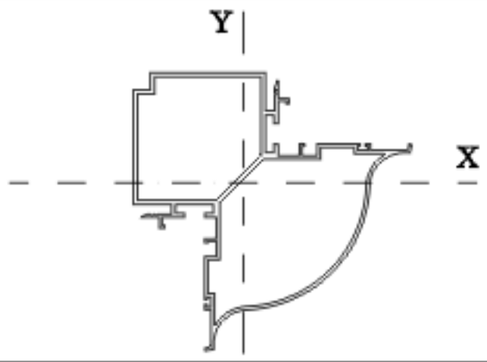
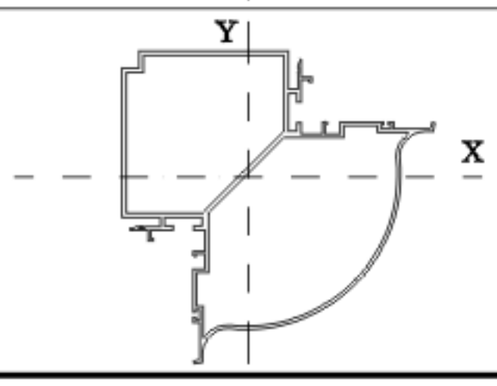
Να σημειωθεί ότι για μεγάλες και σύνθετες κατασκευές υαλοπετάσματος απαιτείται ολοκληρωμένη στατική μελέτη και έλεγχος αντοχής των προφίλ σε όλους τους συνδυασμούς καταπονήσεων. (Ίδιο βάρος, ανεμοπίεση, αλλά και σεισμικό φορτίο).

Note that for big and complex curtain-wall projects a complete static analysis is necessary in order for the mullion profile endurance to be examined under all possible combinations of distress. (Structure load, wind load and seismic load).

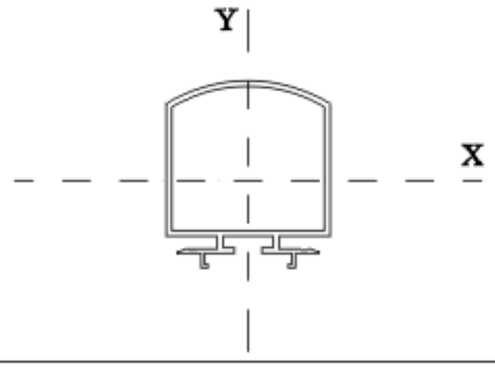
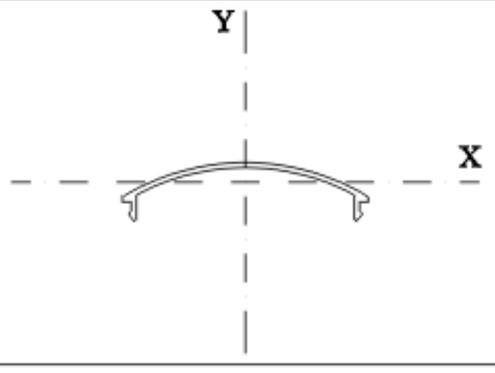
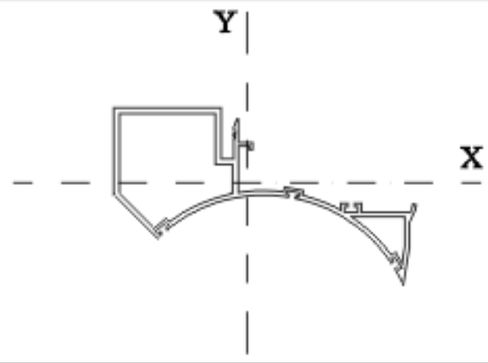
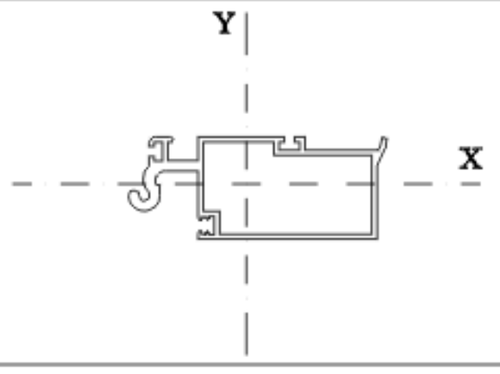
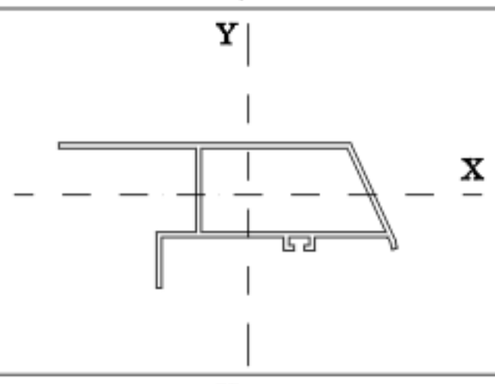
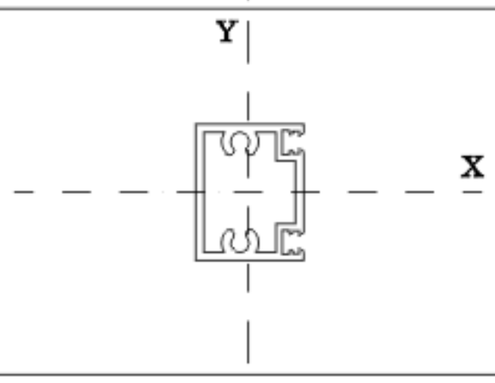
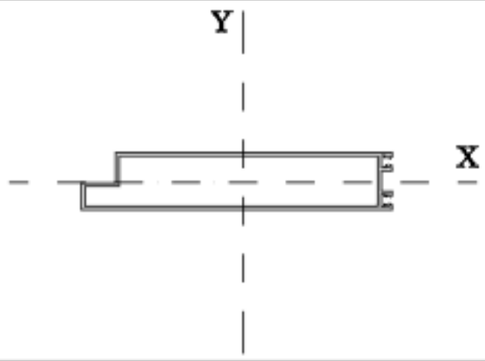
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-000		2126	Jxx = 12.03 Jyy = 44.76	Wxx = 7.42 Wyy = 13.56
102-001		1849	Jxx = 56.12 Jyy = 34.36	Wxx = 15.10 Wyy = 9.18
102-002		2124	Jxx = 68.11 Jyy = 69.11	Wxx = 18.41 Wyy = 14.25
102-003		2394	Jxx = 119.45 Jyy = 80.06	Wxx = 20.11 Wyy = 21.76
102-004		1930	Jxx = 31.44 Jyy = 44.95	Wxx = 10.12 Wyy = 12.54
102-005		2200	Jxx = 66.56 Jyy = 56.89	Wxx = 16.34 Wyy = 15.88
102-006		2470	Jxx = 117.83 Jyy = 68.84	Wxx = 22.87 Wyy = 19.21

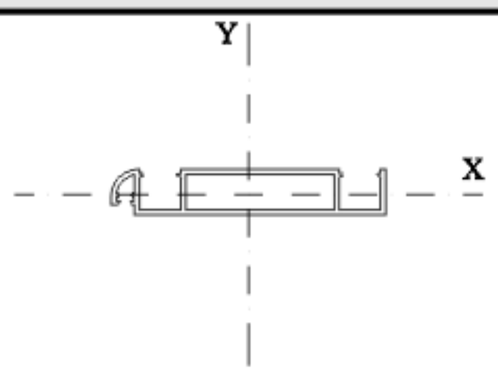
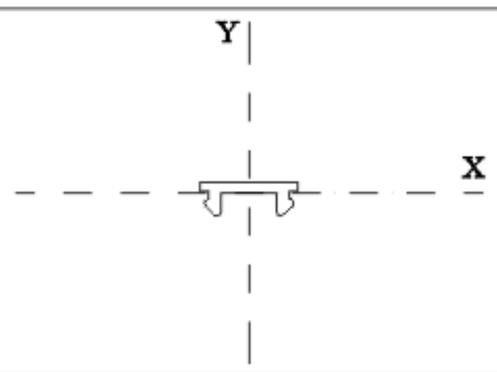
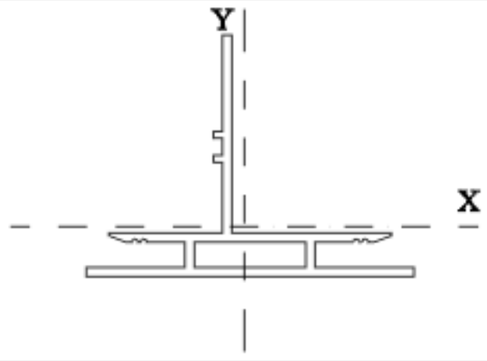
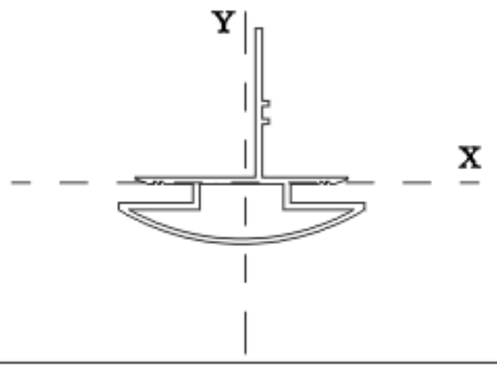
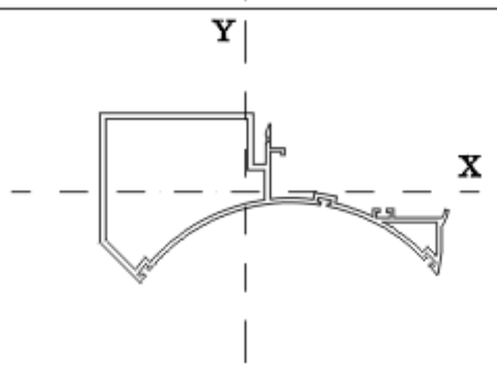
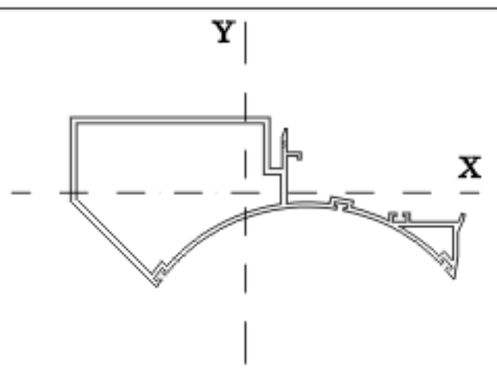
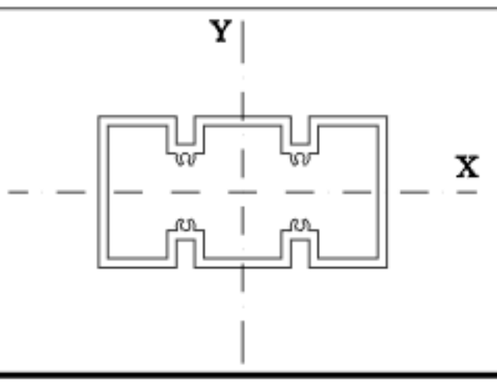
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-007		1102	Jxx = 3.33 Jyy = 18.07	Wxx = 1.86 Wyy = 4.18
102-008		272	Jxx = 0.24 Jyy = 0.69	Wxx = 0.17 Wyy = 0.51
102-009		219	Jxx = 0.23 Jyy = 0.52	Wxx = 0.19 Wyy = 0.32
102-010		3553	Jxx = 162.16 Jyy = 162.16	Wxx = 18.22 Wyy = 18.22
102-011		335	Jxx = 0.02 Jyy = 6.42	Wxx = 0.035 Wyy = 1.79
102-012		4467	Jxx = 307.27 Jyy = 305.82	Wxx = 31.37 Wyy = 31.17
102-013		5427	Jxx = 500.19 Jyy = 500.19	Wxx = 46.03 Wyy = 46.05

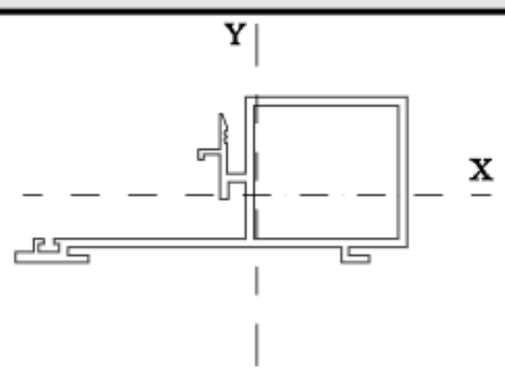
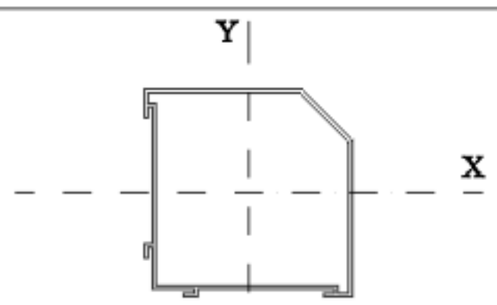
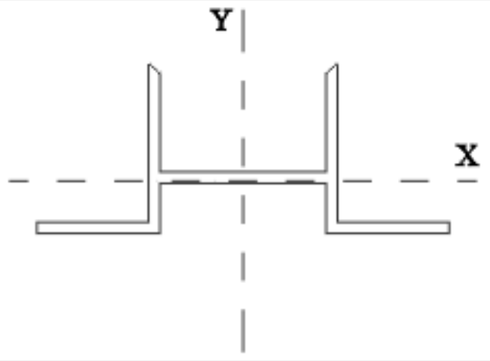
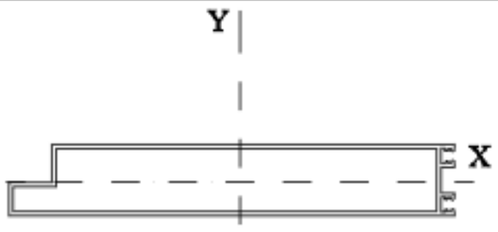
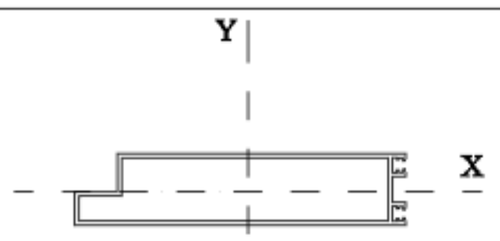
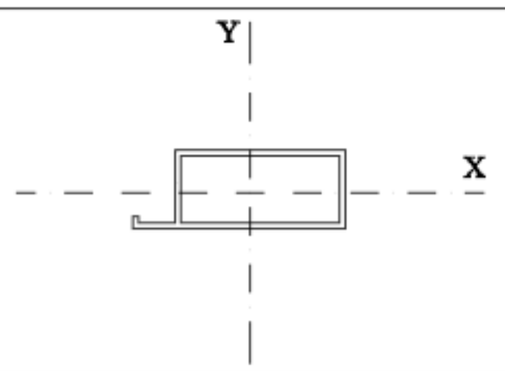
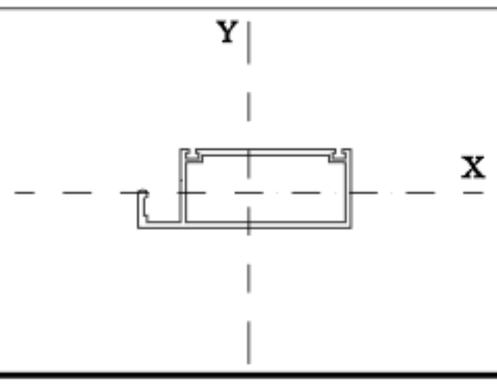
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm⁴)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm³)
102-014		2109	Jxx = 59.39 Jyy = 52.46	Wxx = 13.59 Wyy = 14.64
102-015		372	Jxx = 0.28 Jyy = 7.68	Wxx = 0.25 Wyy = 2.15
102-016		2141	Jxx = 32.47 Jyy = 145.62	Wxx = 7.3 Wyy = 19.71
102-017		1055	Jxx = 4.14 Jyy = 21.51	Wxx = 2.57 Wyy = 5.25
102-018		951	Jxx = 5.80 Jyy = 23.18	Wxx = 2.57 Wyy = 5.25
102-019		622	Jxx = 2.72 Jyy = 1.52	Wxx = 1.82 Wyy = 1.25
102-020		1328	Jxx = 5.65 Jyy = 94.49	Wxx = 4.31 Wyy = 13.37

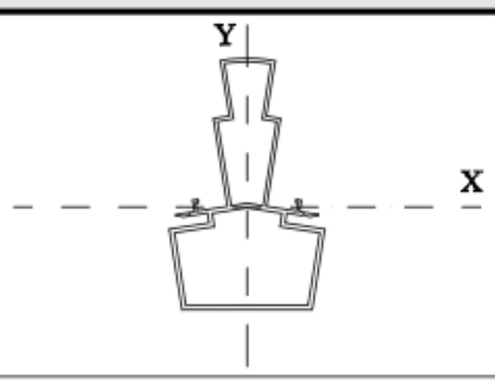
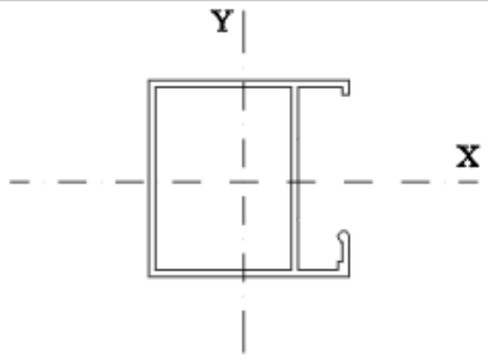
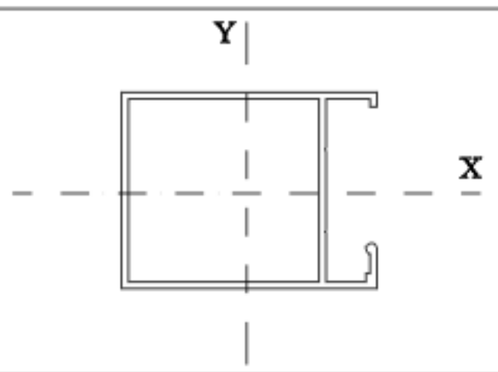
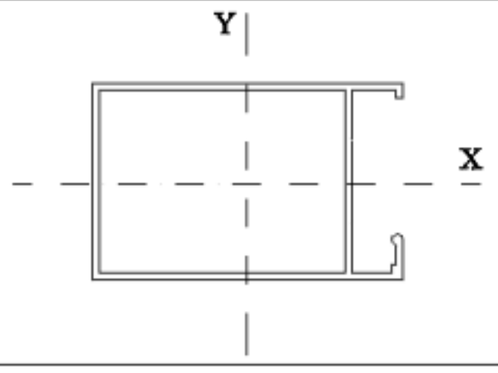
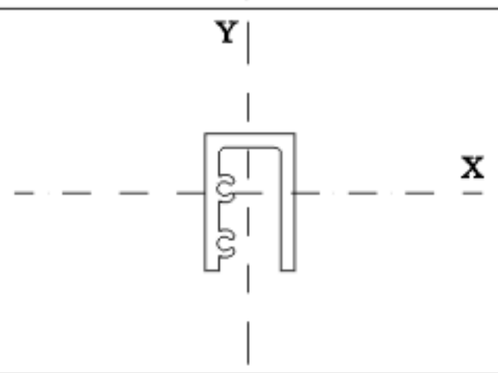
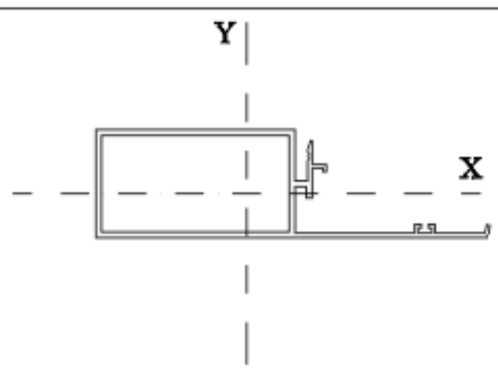
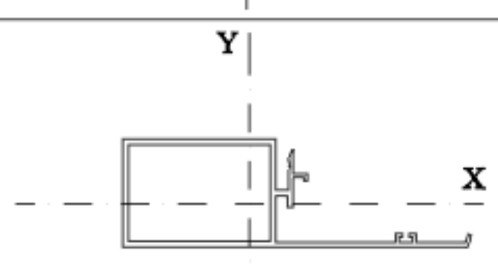
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-021		731	Jxx = 0.72 Jyy = 15.88	Wxx = 0.98 Wyy = 3.96
102-022		62	Jxx = 0.00 Jyy = 0.03	Wxx = 0.00 Wyy = 0.05
102-023		1007	Jxx = 6.66 Jyy = 9.96	Wxx = 1.77 Wyy = 2.38
102-024		1166	Jxx = 8.99 Jyy = 14.14	Wxx = 2.00 Wyy = 3.83
102-025		2590	Jxx = 45.73 Jyy = 228.25	Wxx = 11.57 Wyy = 25.75
102-026		2781	Jxx = 51.35 Jyy = 292.26	Wxx = 15.61 Wyy = 30.51
102-027		5248	Jxx = 124.94 Jyy = 337.06	Wxx = 37.83 Wyy = 53.47

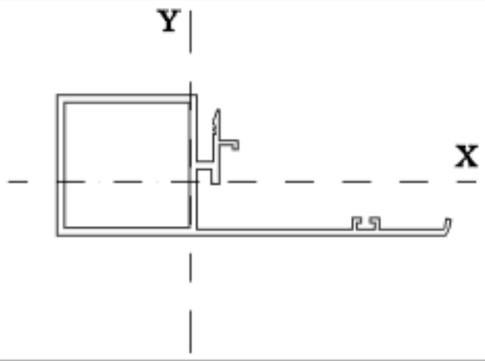
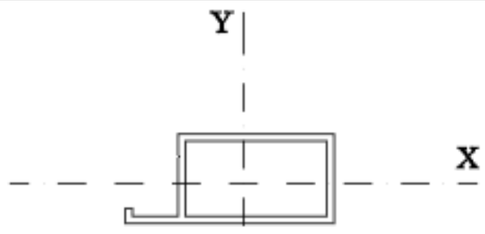
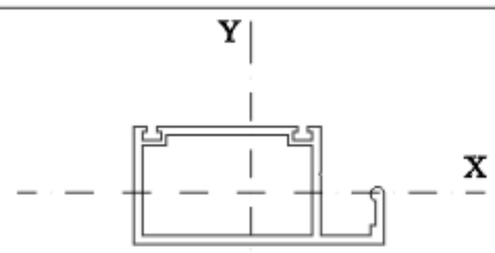
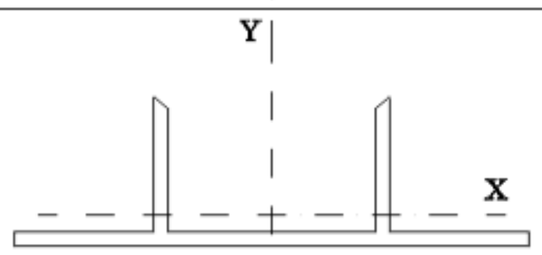
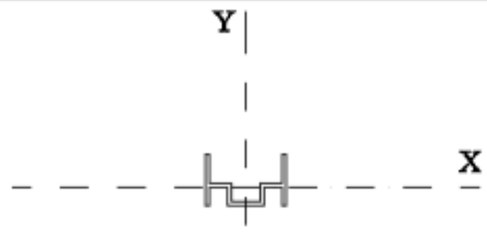
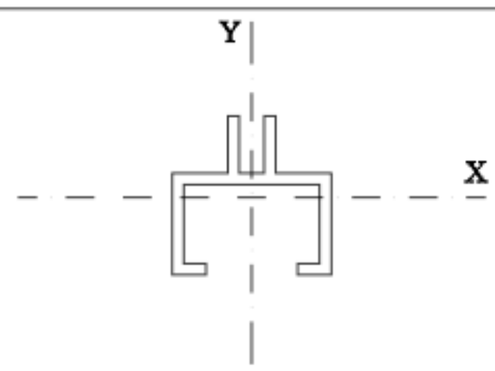
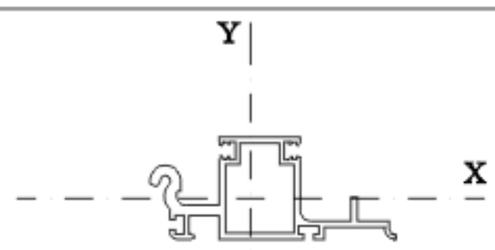
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm⁴)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm³)
102-028		1975	Jxx = 20.90 Jyy = 76.64	Wxx = 7.32 Wyy = 10.90
102-029		2888	Jxx = 238.64 Jyy = 238.64	Wxx = 39.52 Wyy = 39.24
102-030		4245	Jxx = 64.61 Jyy = 344.48	Wxx = 12.69 Wyy = 38.26
102-031		1491	Jxx = 6.48 Jyy = 137.63	Wxx = 4.96 Wyy = 17.04
102-032		1167	Jxx = 4.82 Jyy = 61.20	Wxx = 4.09 Wyy = 10.09
102-033		1504	Jxx = 9.46 Jyy = 45.33	Wxx = 5.56 Wyy = 8.85
102-034		1658	Jxx = 11.73 Jyy = 56.10	Wxx = 6.3 Wyy = 10.93

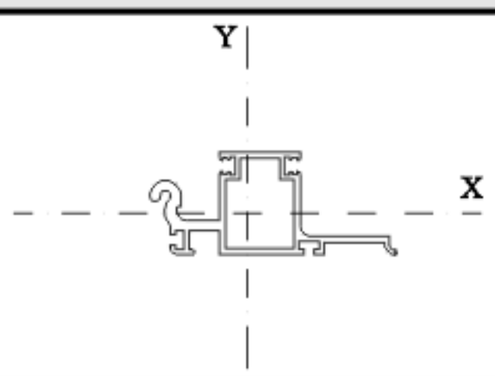
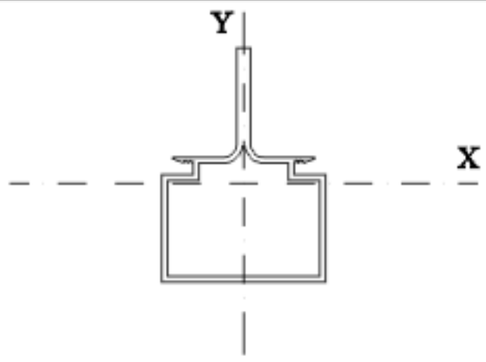
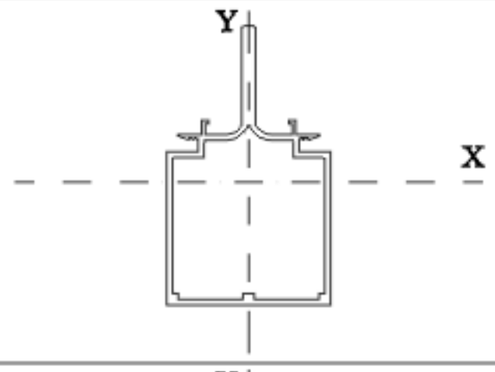
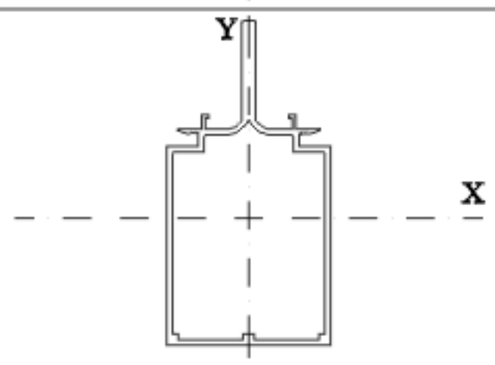
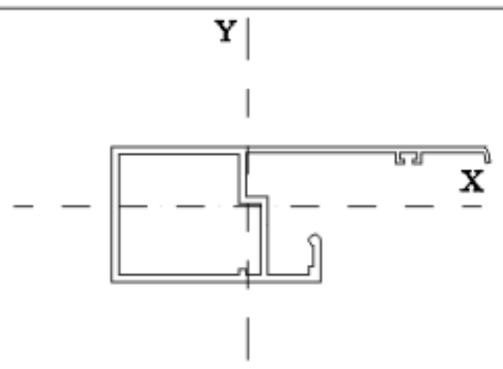
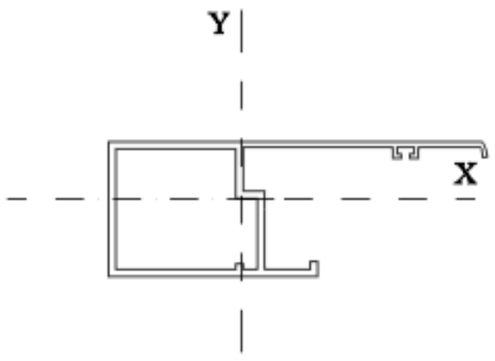
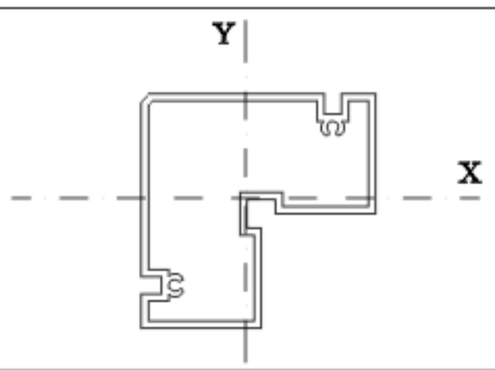
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-035		3064	Jxx = 198.14 Jyy = 66.52	Wxx = 24.06 Wyy = 15.42
102-036		2020	Jxx = 59.60 Jyy = 47.47	Wxx = 16.20 Wyy = 12.39
102-037		2290	Jxx = 71.55 Jyy = 89.60	Wxx = 19.40 Wyy = 18.89
102-038		2559	Jxx = 83.51 Jyy = 148.57	Wxx = 22.70 Wyy = 26.11
102-039		1155	Jxx = 6.62 Jyy = 4.27	Wxx = 3.83 Wyy = 3.65
102-040		2455	Jxx = 33.03 Jyy = 196.00	Wxx = 11.82 Wyy = 18.42
102-041		2184	Jxx = 27.82 Jyy = 133.95	Wxx = 9.78 Wyy = 13.82

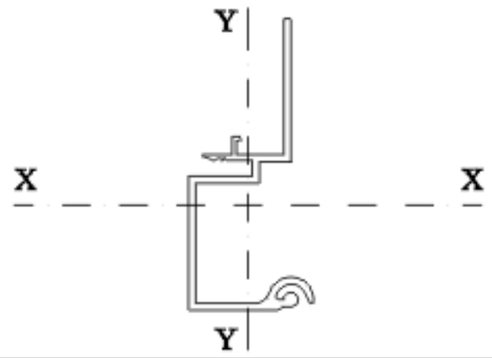
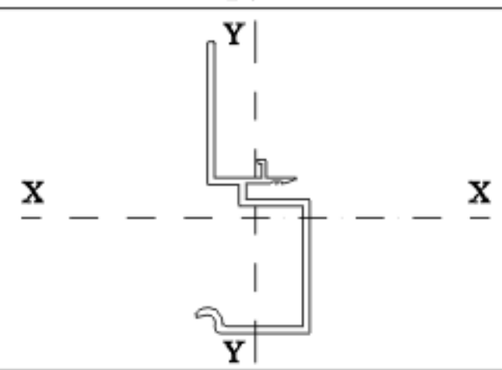
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-042		1914	Jxx = 22.56 Jyy = 88.12	Wxx = 7.74 Wyy = 10.07
102-043		1234	Jxx = 7.36 Jyy = 22.44	Wxx = 4.26 Wyy = 5.42
102-044		1388	Jxx = 9.16 Jyy = 28.99	Wxx = 4.77 Wyy = 7.47
102-045		3651	Jxx = 27.0 Jyy = 311.3	Wxx = 6.60 Wyy = 34.6
102-046		279	Jxx = 0.23 Jyy = 1.15	Wxx = 0.20 Wyy = 0.82
102-048		118	Jxx = 0.06 Jyy = 0.10	Wxx = 0.08 Wyy = 0.01
102-049		1042	Jxx = 3.30 Jyy = 13.30	Wxx = 1.85 Wyy = 3.14

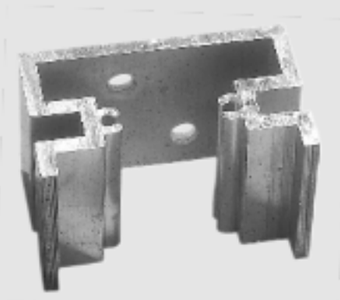
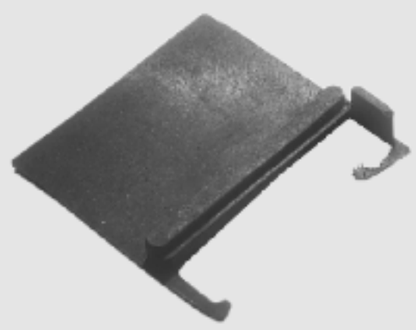
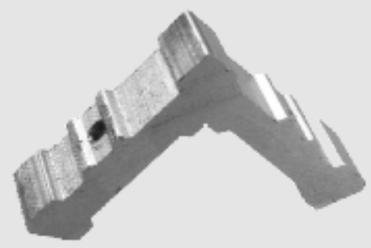
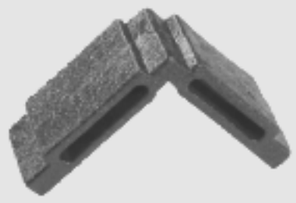
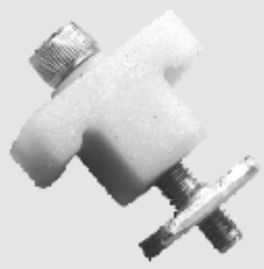
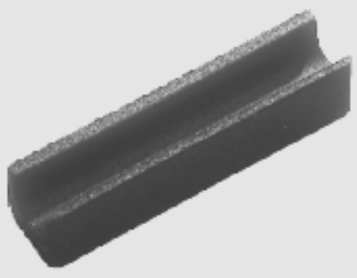
ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES		ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-050		1008	Jxx = 3.11 Jyy = 12.30	Wxx = 1.74 Wyy = 2.84
102-051		2549	Jxx = 88.71 Jyy = 46.16	Wxx = 14.90 Wyy = 12.90
102-052		2819	Jxx = 147.50 Jyy = 58.10	Wxx = 27.50 Wyy = 16.20
102-053		3089	Jxx = 226.90 Jyy = 70.00	Wxx = 29.40 Wyy = 19.60
102-054		2072	Jxx = 28.16 Jyy = 92.38	Wxx = 10.70 Wyy = 10.90
102-055		1974	Jxx = 27.13 Jyy = 90.20	Wxx = 9.98 Wyy = 10.50
102-056		2577	Jxx = 74.98 Jyy = 74.98	Wxx = 16.50 Wyy = 16.50

ΣΤΑΤΙΚΕΣ ΤΙΜΕΣ / STATIC VALUES

ΠΡΟΦΙΛ PROFILES	ΒΑΡΟΣ WEIGHT (gr/m)	ΡΟΠΗ ΑΔΡΑΝΕΙΑΣ MOMENT OF INERTIA (cm^4)	ΡΟΠΗ ΑΝΤΙΣΤΑΣΕΩΣ MOMENT OF RESISTANCE (cm^3)
102-059 	1462	Jxx = 47.40 Jyy = 10.35	Wxx = 7.30 Wyy = 4.50
102-060 	1307	Jxx = 41.40 Jyy = 8.80	Wxx = 6.75 Wyy = 4.65

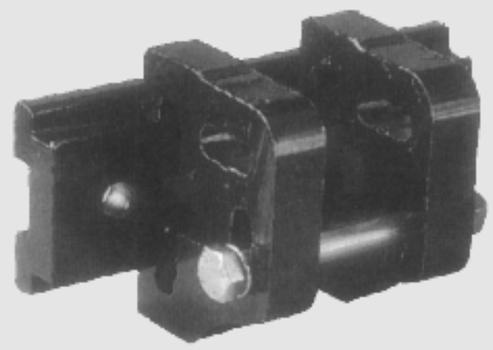
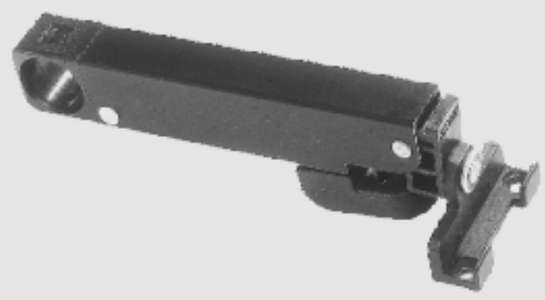
ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES

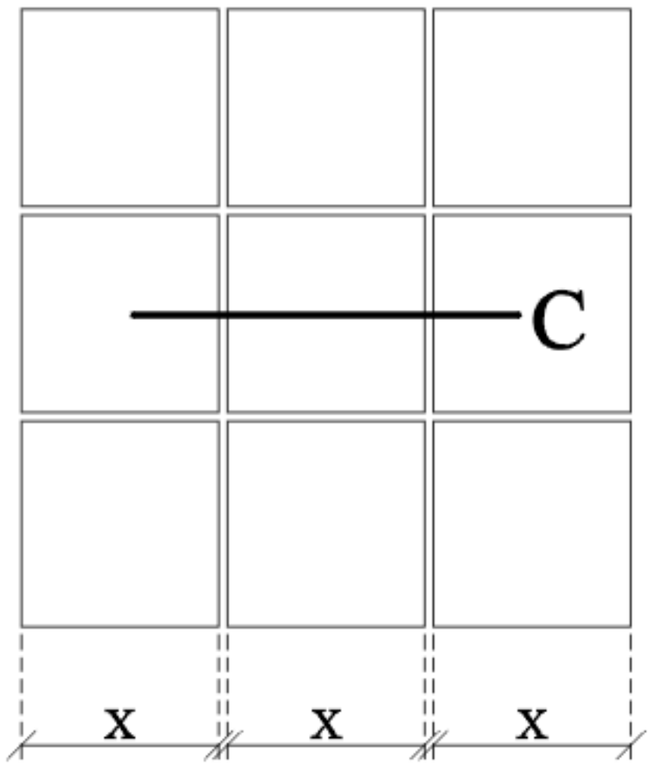
ΚΩΔΙΚΟΣ CODE	ΠΕΡΙΓΡΑΦΗ	DESCRIPTION	ΣΧΗΜΑ FIGURE
	ΣΥΝΔΕΣΜΟΣ ΣΤΗΡΙΞΗΣ	Mullion connector	
5107	No 001	No 001	
5114	No 002	No 002	
5144	No 003	No 003	
	ΦΛΑΝΤΖΑ ΥΑΛΟΠΕΤΑΣΜΑΤΟΣ	Flange between mullion and transom	
5123	102001	102001	
5216	102002	102002	
5148	102003	102003	
5379	ΓΩΝΙΑ ΣΥΝΔΕΣΕΩΣ No 102Α΄	Steel joint corner No 102 A΄	
5641	ΠΡΟΣΘΗΚΗ ΓΩΝΙΑΣ No 102Α΄	Additional part for joint corner 102A΄	
5817	ΕΞΑΡΤΗΜΑ ΣΤΗΡΙΞΗΣ ΤΥΦΛΩΝ ΣΗΜΕΙΩΝ No 102	Support accessory for inaccessible spots	
5102	ΕΞΑΡΤΗΜΑ ΣΤΗΡΙΞΗΣ ΦΥΛΛΟΥ No 102	Support accessory for sash profiles	

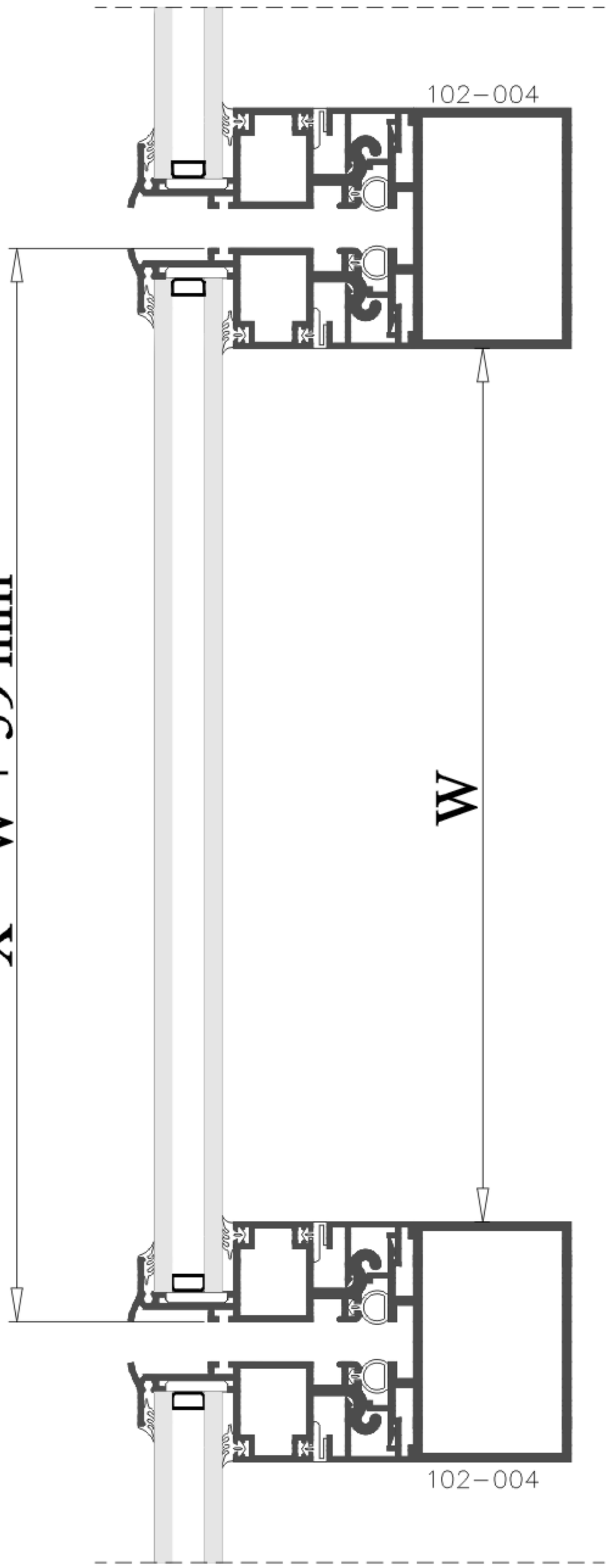
ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES

ΚΩΔΙΚΟΣ CODE	ΠΕΡΙΓΡΑΦΗ	DESCRIPTION	ΣΧΗΜΑ FIGURE
5680	ΓΩΝΙΑ ΕΥΘΥΓΡΑΜΜΙΣΕΩΣ No 102	Alignment square 102	
5004	ΛΑΣΤΙΧΟ No 42	Gasket Nr.42	
5004	ΛΑΣΤΙΧΟ No 43	Gasket Nr.43	
5645	ΛΑΣΤΙΧΟ ΣΥΡΤΑΡΩΤΟ No 109	Sliding gasket Nr.109	
5645	ΛΑΣΤΙΧΟ ΣΥΡΤΑΡΩΤΟ No 106	Sliding gasket Nr.106	
5646	ΛΑΣΤΙΧΟ ΣΥΡΤΑΡΩΤΟ No 107	Sliding gasket Nr.107	

ΕΞΑΡΤΗΜΑΤΑ / ACCESSORIES

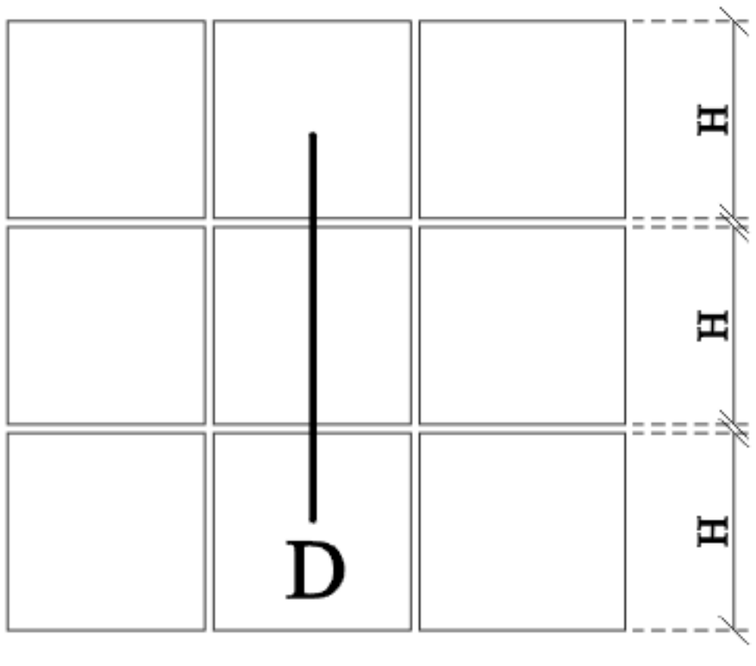
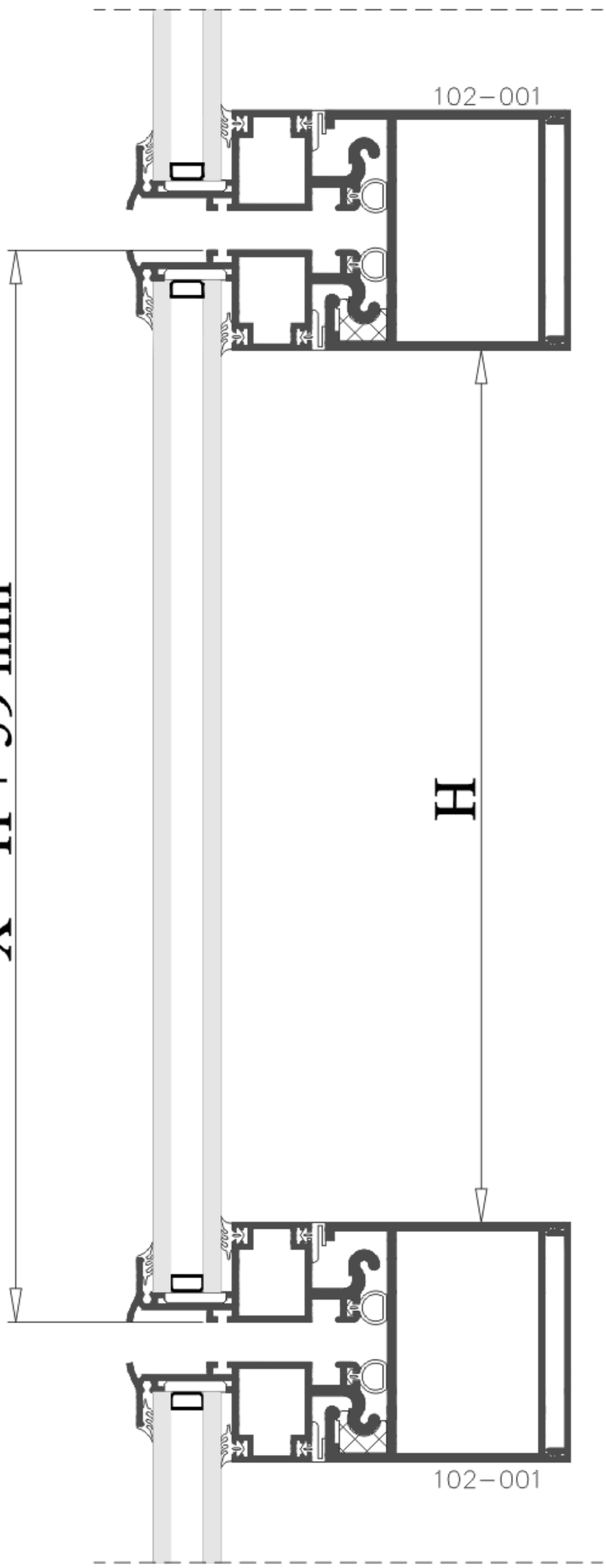
ΚΩΔΙΚΟΣ CODE	ΠΕΡΙΓΡΑΦΗ	DESCRIPTION	ΣΧΗΜΑ FIGURE
5744	ΡΥΘΜΙΖΟΜΕΝΗ ΒΑΣΗ ΥΑΛΟΠΕΤΑΣΜΑΤΟΣ	Adjustable structural bracket	
5609	ΕΞΑΡΤΗΜΑ ΒΑΣΗΣ ΥΑΛΟΠΕΤΑΣΜΑΤΟΣ	Accessory for structural bracket	
	ΛΑΒΗ ΥΑΛΟΠΕΤΑΣΜΑΤΟΣ	Cremone Bolt	
5202	ΜΙΚΡΗ	Small	
5215	ΜΕΓΑΛΗ	Large	





$$X = W + 59 \text{ mm}$$

Πλάτος φύλλου width of sash
X = W + 59 mm



Υψος φύλλου Height of sash
X = H + 59 mm