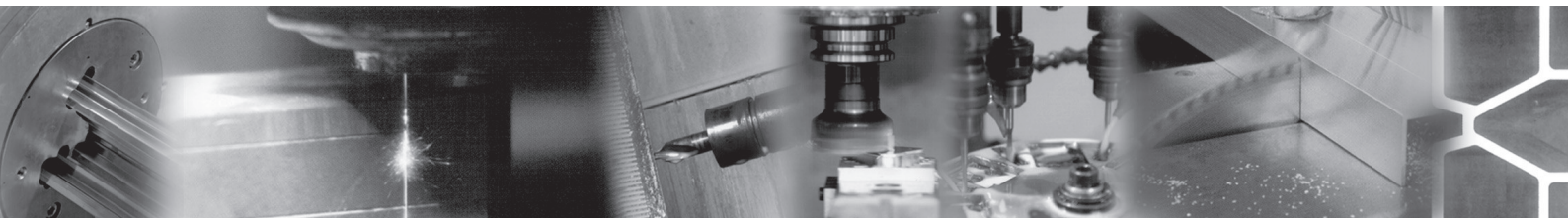




Aluminium

Luxboard Data sheet and Profiles 6 - 25 mm



mejo Metall Josten GmbH & Co. KG
Bublitzer Straße 23
40599 Düsseldorf
Germany

Tel.: +49 (0)221 / 9 98 90 - 0
E-Mail: cnt@mejo.de

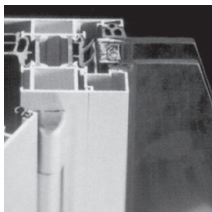
 **Metall Josten**

Internet
www.mejo.com
www.mejo.de



mejo Metall Josten

Aluminium for Midsized Companies since 1932



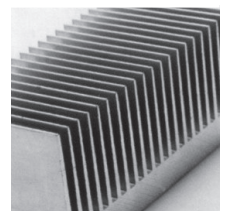
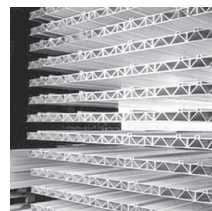
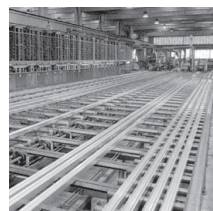
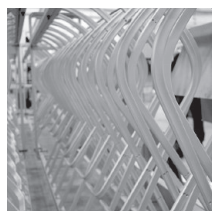
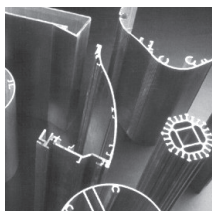
The Metall Josten is a supplier of aluminum profiles and composite materials. Since 1932 we are already dealing with the possibilities of the material, but above all with

extrusion and honeycomb technology.

Today we access a range of 30 extrusion presses with compressive forces between 600 and 8000 tons and are one of the most important addresses for commercial honeycomb composite technology in Germany. With the above-mentioned machines, the suitable extrusion press is available for almost every profile size and with a large stock of honeycomb panels, we are the first contact for industrial lightweight construction.

Our service covers the entire spectrum around the aluminum profile and the composite panel:

- Conception and development
- Eloxal and powder coating
- Tooling
- Packing
- Production and sales
- Storage
- Mechanical processing
- Neutral delivery





LUXBOARD A



DATA-SHEET

Aluminium Honeycomb Sandwich Panel, coated with aluminum cover sheets

DESCRIPTION

Luxboard A is a lightweight aluminium panel consisting of an aluminium honeycomb core coated with aluminium sheets on both sides.

The panel combines extraordinary stability characteristics with an extreme light weight property and is certified as non-combustible material, according to various standards and codes. Luxboard A has a proven outstanding longevity for interior constructions in shipbuilding & railway, as well as for the truck trailer industry and general industry.

It can also be found in offshore construction, design components and machinery casing.

Composition:

The cover sheets and the core are bonded together with a thermoplastic adhesive which guarantees stability of the composite material up to 110°C.

Availability:

Panel thickness:
- minimum honeycomb thickness of **3 mm** + cover
- maximum panel thickness: **50 mm**

Panel width:

minimum production with: 1000 mm
maximum production with: 1550 mm

Panel length:

continuous production length up to 15,000 mm
(Maximum transportation limit). Cut-to-size parts are available from the standard sizes.

Recyclability:

Luxboard A is almost completely recyclable due to its consistency of more than 90 % aluminium

MATERIALS

Core:

Aluminium honeycomb core made of 3003 alloy, nominal cell diameters are: 6,4 mm (1/4"), 9,6 mm (3/8") and 12,7 mm (1/2"). The densities of the core are 90 kg/m³, 60 kg/m³ bzw 42 kg/m³.

Cover sheets:

Aluminium alloy made of 5754 H48 (standard material) guarantees high surface stability and impact strengths. This alloy is very robust against environmental influences e.g. seawater resistancy. Standard skin thicknesses are 0.5 mm and 1.0 mm. Bespoke thicknesses are available on request. Cover sheets can be layered symmetrically on top and bottom (1mm/1mm or 0.5mm/0.5 mm) or asymmetrically (0.5 mm / 1.0 mm). Alternative alloys are available by respecting minimum order quantity. Finished/painted cover sheets are available at a minimum panel order quantity of 250 running meters for both sides finished.

Tolerances:

length: + 1,0 / - 0 mm
width: + 1,0 / - 0 mm
thickness: + 0,1 / - 0,1 mm
surface flatness: + 0,1 / - 0,1 mm
dishing: < 1 mm per 1m

Safety:

It is recommended that protective equipment such as safety glasses and breathing protection is worn during any cutting operations to avoid inhalation and eye contact with dust. Gloves should be worn to avoid cuts. Hands should be washed before eating, drinking or smoking and after finishing work.

Environmental compatibility

The materials are manufactured 100% chromefree.





LUXBOARD A

Table Size:

Type	Thickness* [mm]				Weight [kg/m ²]		
	total	cover sheet		honey- comb core	cell size		
		top	bottom		6,4 mm	9,6 mm	12,7 mm
					1/4" inch	3/8" inch	1/2" inch
A060303 A060505	6	0,3	0,3	5,4	2,4	2,2	2,1
		0,5	0,5	5,0	3,4	3,3	3,2
A100303 A100505 A101010 A101515	10	0,3	0,3	9,4	2,7	2,4	2,3
		0,5	0,5	9,0	3,8	3,5	3,4
		1,0	1,0	8,0	6,4	6,1	6,0
		1,5	1,5	7,0	9,0	8,8	8,7
A150303 A150505 A151010 A151515	15	0,3	0,3	14,4	3,2	2,7	2,5
		0,5	0,5	14,0	4,2	3,8	3,6
		1,0	1,0	13,0	6,8	6,4	6,2
		1,5	1,5	12,0	9,4	9,1	8,9
A200303 A200505 A201010 A201515	20	0,3	0,3	19,4	3,6	3,0	2,8
		0,5	0,5	19,0	4,7	4,1	3,8
		1,0	1,0	18,0	7,3	6,7	6,5
		1,5	1,5	17,0	9,9	9,4	9,1
A250303 A250505 A251010 A251515	25	0,3	0,3	24,4	4,1	3,3	3,0
		0,5	0,5	24,0	5,1	4,4	4,0
		1,0	1,0	23,0	7,7	7,0	6,7
		1,5	1,5	22,0	10,3	9,7	9,4
A300303 A300505 A301010 A301515	30	0,3	0,3	29,4	4,5	3,6	3,2
		0,5	0,5	29,0	5,6	4,7	4,3
		1,0	1,0	28,0	8,2	7,3	6,9
		1,5	1,5	27,0	10,8	10,0	9,6
Compressive Strength					MPa**		
					4,5	2,5	1,5

* extra width on request

**) DIN 53291, 1 MPa = 1 N/mm²

ZERTIFIKATE / NORMEN

maritime

MED, IMO



0098

In conformity with the EU-MED directive, European Union Marine Equipment Directory, to allow use in vessels constructed, built, registered or operated in Europe

Item No. MED/3.13 non combustible, IMO 2010 FTP Code

Zertifikat Nr.: MEDB00003ZH, MEDD00001GG

USCG Approval Nr.: 164.109/EC0098/MEDB0003ZH

U.S. Coast Guard

Aluminium honeycomb core:

Item No. MED/3.13 non combustible, IMO FTP Code, Annex 1, part 1**USCG Approval No.:** 164.109/EC0098/MEDB0003U9

architecture

DIN EN 13501-1

A2-s1, d0 classification, non-combustible

- A2 – non-combustible

- s1 – no smoke

- d0 – no flammable dropping

A2

railway

DIN EN 45545-2

Requirementsset R1

Hazard Level 3

Implementable

- in all design categories

- in all operation categories

HL3



LUXBOARD A

APPLICATIONS:

Ferry:

Fast ferries need to go fast. To reach that goal, Luxboard A is used in doors, walls, ceilings, hatches....

Ships:

Some of them can't live without Luxboard A to reach to goal of low center of gravity.

Trucks:

Make it light and make it stiff, that was the mission for our customers. Luxboard is the solution.

Living:

For the offshore industry, weight saving is a master goal. Luxboard A does bring solutions

Other:

Building Cladding, Water Barriers, Solar roof panels, Interior Design, Railway Coaches.



HOW TO WORK WITH IT!

Folding:

Cutting of skins, removing skin/core, filling with bonding paste, folding to position and hold till adhesive is cured.

Connect:

Use profiles when available, create tongue & groove, secure with adhesive.

Closing:

Use profiles, wood inlays, edging paste, adhesive tape, skin bending, all depending on your final application.

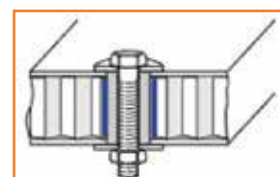
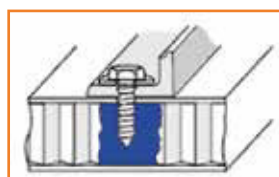
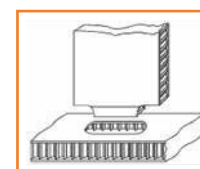
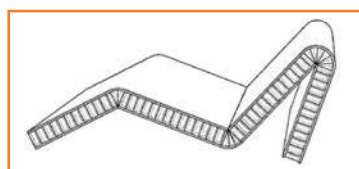
Fixing:

95% of a sandwich panel is air.

Use fillers and spacers to bolt or crew into panels.

Other:

Our technical team would gladly share their experience with you and help find solutions for your application.



Luxboard – Innovation pure

Trends never changed as quickly as they do today.

Technological developments have made it possible to combine materials in an innovative manner and to use them in many different ways. To learn more about possibilities and applications, please contact us.



LUXBOARD A

Table mechanical performance and physical data:

Type	Thickness			honey- comb core	E- Modulus of skin sheet	tensile strength **	elastic limit **	Traverse strength at deforma- tion*	max. bending in the middle *	theor. bending stiffness *	section modu- lus*	area moment of inertia*
	total	cover sheet										
		top	bottom									
	[mm]	[mm]	[mm]	Zoll - mm	[N/mm ²]			[N]	[mm]	[kNcm ² / m]	cm ³ /m	cm ⁴ / mcm ⁴ /m
A060505	6	0,5	0,5	3/8" - 9,6	70.000	280	220					
A100505	10	0,5	0,5	3/8" - 9,6	70.000	280	220	1294	2,61	15820	4,51	2,26
A100510	10	0,5	1	3/8" - 9,6	70.000	280	220	1250	2,78	19950	5,7	2,85
A101010	10	1	1	3/8" - 9,6	70.000	280	220	1.400	7,25	28350	8,1	4,05
A150505	15	0,5	0,5	3/8" - 9,6	70.000	280	220	1.853	3,53	36820	7,01	5,26
A151010	15	1	1	3/8" - 9,6	70.000	280	220	1.856	3,28	68600	13,07	9,8
A200505	20	0,5	0,5	3/8" - 9,6	70.000	280	220	2.181	4,15	66570	9,51	9,51
A200510	20	0,5	1	3/8" - 9,6	70.000	280	220	2.673	4,31	86450	12,35	12,35
A201010	20	1	1	3/8" - 9,6	70.000	280	220	3.188	3,68	126350	18,05	18,05
A250505	25	0,5	0,5	3/8" - 9,6	70.000	280	220	2.550	5,12	105070	12,01	15,01
A251010	25	1	1	3/8" - 9,6	70.000	280	220	3.245	5,15	201600	23,04	28,8
A300505	30	0,5	0,5	3/8" - 9,6	70.000	280	220	2.854	5,69	152320	14,5	21,76
A300510	30	0,5	1	3/8" - 9,6	70.000	280	220	3.811	6,78	199640	19,1	28,52
A301010	30	1	1	1/4" - 6,4	70.000	280	220	6.592	8,80	294350	28,03	42,05
A301010	30	1	1	3/8" - 9,6	70.000	280	220	4.036	7,12	294350	28,03	42,05
A401010	40	1	1	1/4" - 6,4	70.000	280	220	7.900	11,31	532350	38,03	76,05
A401010	40	1	1	3/8" - 9,6	70.000	280	220	4.682	7,67	532350	38,03	76,05

*) 4-point bending test in dependance on DIN 53293

**) Drum-peeling-test according to DIN 53295

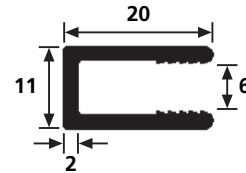
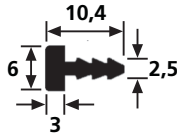
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Fax: +49 6561 9464 220
E-Mail: info@luxpanel.de

Produkt Range - Aluminium Special Sections

6 mm

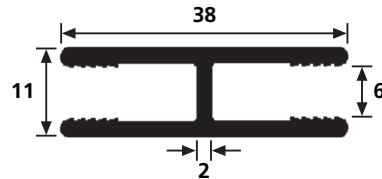
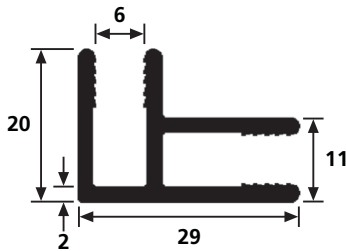


T-Edging Section approx. ± 0,079 kg/m

Item mejo	Surface	Length
10 000 85	anodized E6EV1	6 m

U-Edging Section approx. ± 0,275 kg/m

Item mejo	Surface	Length
10 002 60	blank	6 m
10 001 64	anodized E6EV1	6 m

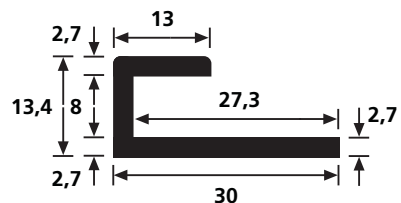
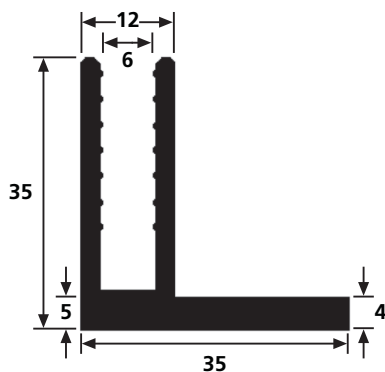


Corner-joint-section approx. ± 0,470 kg/m

Item mejo	Surface	Length
10 000 43	anodized E6EV1	6 m

H-Butt-joint Section approx. ± 0,470 kg/m

Item mejo	Surface	Length
10 000 33	anodized E6EV1	6 m



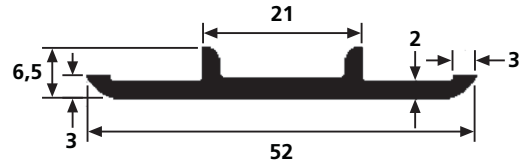
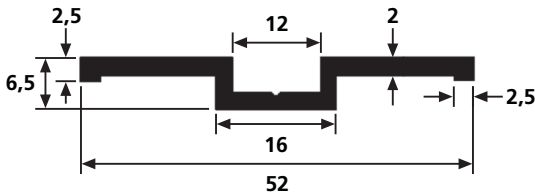
Border Section approx. ± 0,820 kg/m

Item mejo	Surface	Length
10 001 65	blank	6 m

Edge Section approx. ± 0,371 kg/m

Item mejo	Surface	Length
90 10 99	blank	6 m

6 mm



Butt-joint Sections 2-pieces approx. ± 0,335 kg/m

Item mejo	Surface	Length
10 001 67	blank	6 m

Butt-joint Sections 2-pieces approx. ± 0,351 kg/m

Item mejo	Surface	Length
10 001 68	blank	6 m

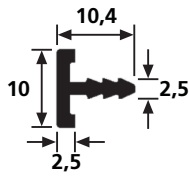
If you can dream it, you can do it. (Walt Disney)

The extrusion technology allows an incredible variety of shapes and functions to be integrated into a profile. If you can not find your desired profile, we can press almost any desired cross section.

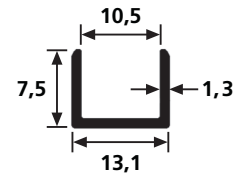
Contact us:

Telefon +49 (0)221 / 9 98 90 - 0
 Telefax +49 (0)221 / 9 98 90 - 15
 E-Mail eip@mejo.de

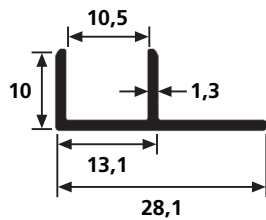
10 mm



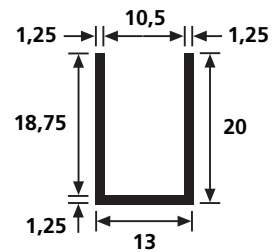
T-Edging Section		approx. ± 0,105 kg/m
Item mejo	Surface	Length
10 000 86	anodized E6EV1	6 m



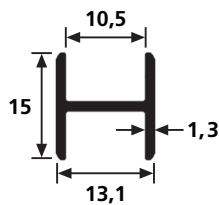
U-Edging Section		approx. ± 0,086 kg/m
Item mejo	Surface	Length
10 000 00	anodized E6EV1	6 m



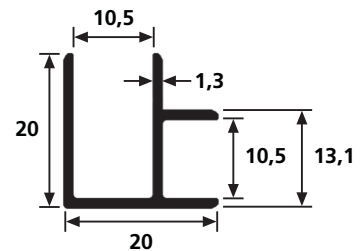
F-Edging Section		approx. ± 0,140 kg/m
Item mejo	Surface	Length
10 000 01	anodized E6EV1	6 m



U-Edging Section		approx. ± 0,171 kg/m
Item mejo	Surface	Length
90 10 10	blank	6 m

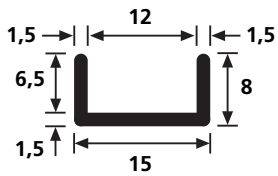


H-Butt-joint Section		approx. ± 0,138 kg/m
Item mejo	Surface	Length
10 002 18	anodized E6EV1	6 m



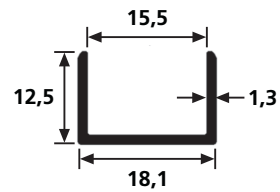
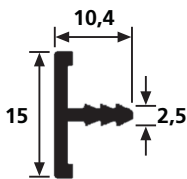
Corner-joint-section		approx. ± 0,221 kg/m
Item mejo	Surface	Length
10 001 19	anodized E6EV1	6 m

10 mm



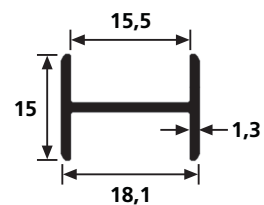
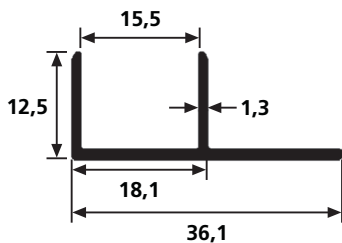
U-Edging Section		approx. ± 0,111 kg/m
Item mejo	Surface	Length
11 007 57	blank	6 m

15 mm



T-Edging Section		approx. ± 0,132 kg/m
Item mejo	Surface	Length
10 002 59	blank	6 m
10 000 87	anodized E6EV1	6 m

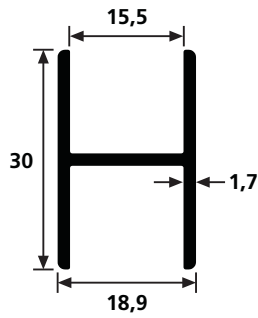
U-Edging Section		approx. ± 0,138 kg/m
Item mejo	Surface	Length
10 001 50	anodized E6EV1	6 m



F-Edging Section		approx. ± 0,219 kg/m
Item mejo	Surface	Lenth
10 001 69	anodized E6EV1	6 m

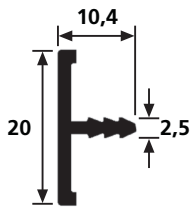
H-Butt-joint Section		approx. ± 0,165 kg/m
Item mejo	Surface	Length
10 002 19	anodized E6EV1	6 m

15 mm

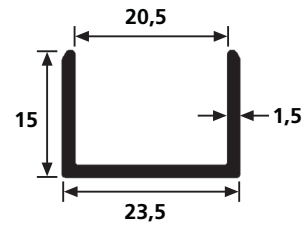


H-Butt-joint Section		approx. ± 0,401 kg/m
Item mejo	Surface	Length
10 002 90	anodized E6EV1	6 m

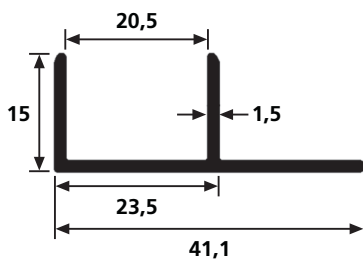
20 mm



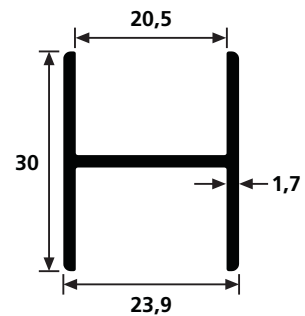
T-Edging Section		approx. ± 0,156 kg/m
Item mejo	Surface	Length
10 001 06	anodized E6EV1	6 m



U-Edging Section		approx. ± 0,200 kg/m
Item mejo	Surface	Length
10 001 70	anodized E6EV1	6 m

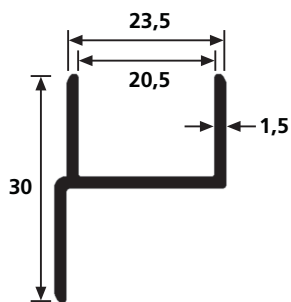


F-Edging Section		approx. ± 0,281 kg/m
Item mejo	Surface	Length
10 001 71	anodized E6EV1	6 m



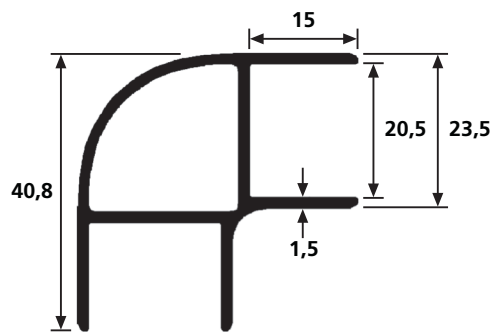
H-Butt-joint Section		approx. ± 0,200 kg/m
Item mejo	Surface	Length
10 002 89	anodized E6EV1	6 m

20 mm



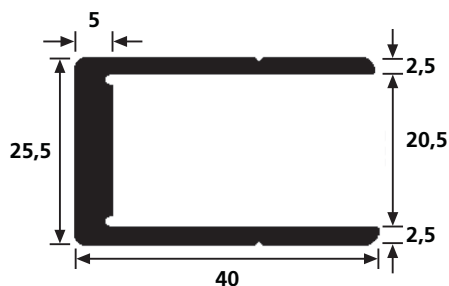
Edge Section approx. ± 0,267 kg/m

Item mejo	Surface	Length
10 001 72	anodized E6EV1	6 m



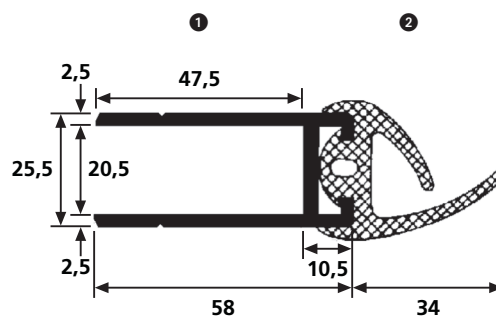
Corner-joint-section approx. ± 0,602 kg/m

Item mejo	Surface	Length
10 001 73	anodized E6EV1	6 m



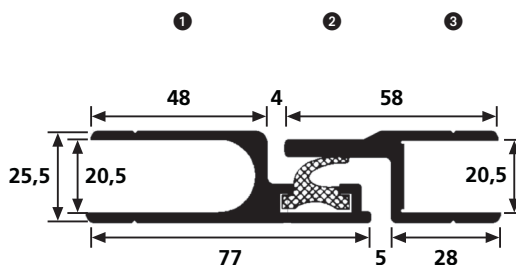
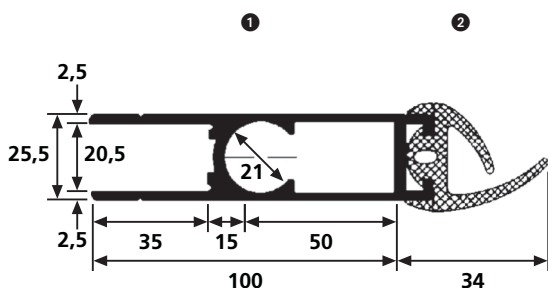
U-Edging Section approx. ± 0,80 kg/m

Item mejo	Surface	Length
10 001 78	blank	6,5 m



Door fitting Section approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 001 79	blank	6,5 m	0,99
(2) 10 001 80	profiled joint	6,5 m	0,54



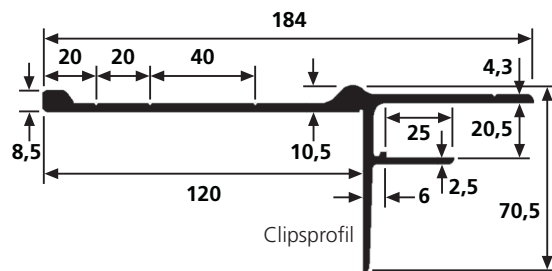
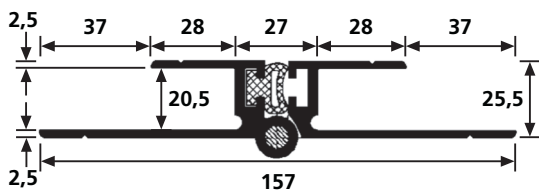
Door fitting Section approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 001 81	blank	6,5 m	1,83
(2) 10 001 80	profiled joint	6,5 m	0,54

Door fitting Section approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 001 82	blank	6,5 m	1,33
(2) 10 001 84	profiled joint	6,5 m	0,19
(3) 10 001 83	blank	6,5 m	0,98

20 mm



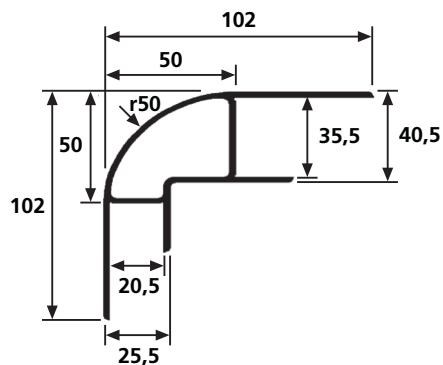
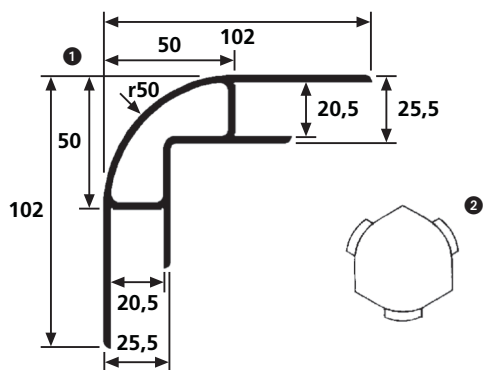
hinge complete* approx. ± 2,80 kg/m

Item mejo	Surface	Length
10 001 85	blank	2,4 m / 3 m

* with profiled joint

Border Section approx. ± 2,80 kg/m

Item mejo	Surface	Length
10 001 86	blank	7,5 m / 13,5 m

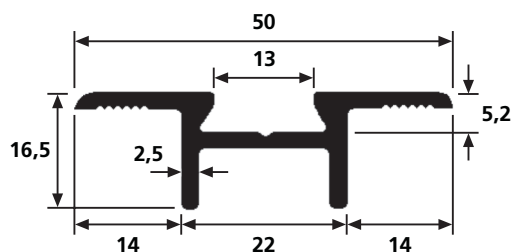
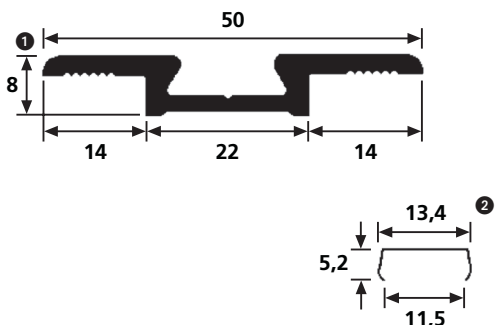


Corner-joint-section approx. ±

Item mejo	Surface	Length	kg/m	kg/Stk
(1) 10 001 87	blank	5 / 6 m	2,18	
(2) 10 001 88	blank			0,28

Corner-joint-section approx. ± 2,18 kg/m

Item mejo	Surface	Length
10 001 89	blank	7,5 m / 13,5 m



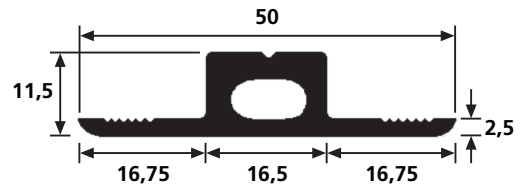
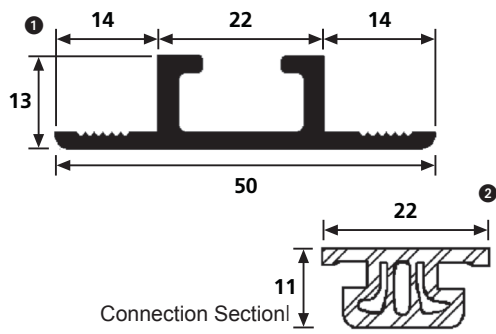
Butt-joint Sections approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 001 90	blank	6 m	0,50
(2) 10 001 91	blank	6 m	

Butt-joint Sections approx. ± 0,55 kg/m

Item mejo	Surface	Length
10 001 93	blank	6 m

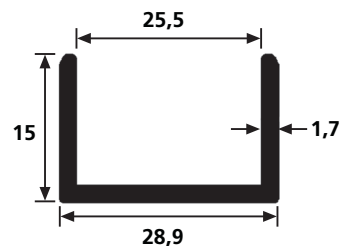
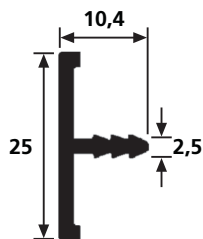
20 mm



Butt-joint Sections		approx. ±	
Item mejo	Surface	Length	kg/m
(1) 10 001 94	blank	6 m	0,51
(2) 10 001 92	profiled joint	6 m	

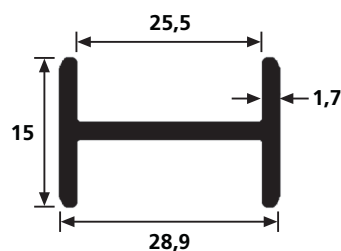
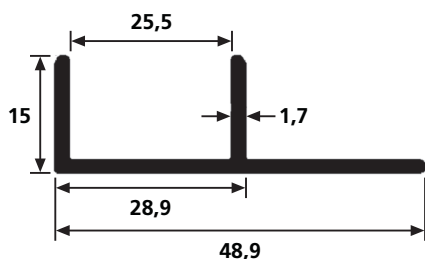
Butt-joint Sections		approx. ± 0,59 kg/m	
Item mejo	Surface	Length	
10 001 95	blank	6 m	

25 mm



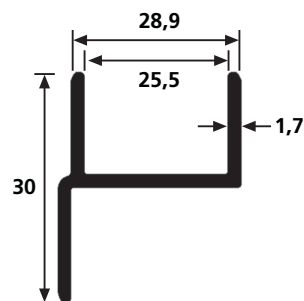
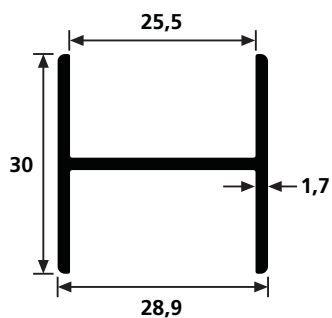
T-Edging Section		approx. ± 0,179 kg/m
Item mejo	Surface	Length
10 002 61	anodized E6EV1	6 m
10 000 89	blank	6 m

U-Edging Section		approx. ± 0,248 kg/m
Item mejo	Surface	Length
10 001 74	anodized E6EV1	6 m



F-Edging Section		approx. ± 0,340 kg/m
Item mejo	Surface	Length
10 001 75	anodized E6EV1	6 m

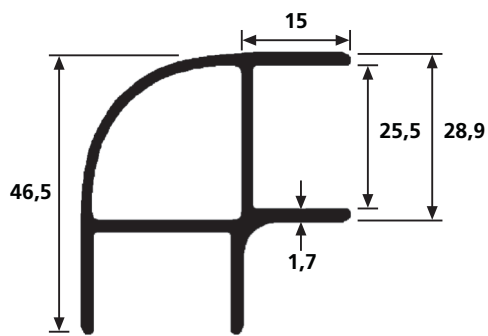
H-Butt-joint Section		approx. ± 0,248 kg/m
Item mejo	Surface	Length
10 002 21	anodized E6EV1	6 m



H-Butt-joint Section		approx. ± 0,427 kg/m
Item mejo	Surface	Length
10 002 88	anodized E6EV1	6 m

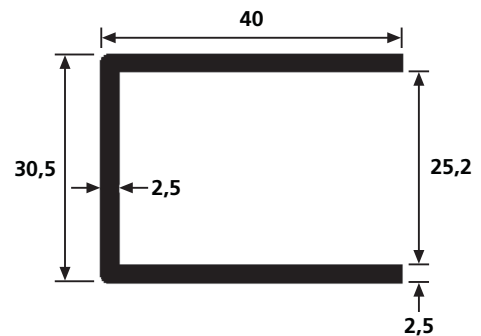
Edge Section		approx. ± 0,324 kg/m
Item mejo	Surface	Length
10 001 76	anodized E6EV1	6 m

25 mm



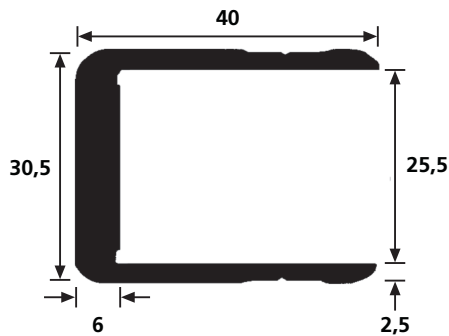
Corner-joint-section approx. ± 0,837 kg/m

Item mejo	Surface	Length
10 001 77	anodized E6EV1	6 m



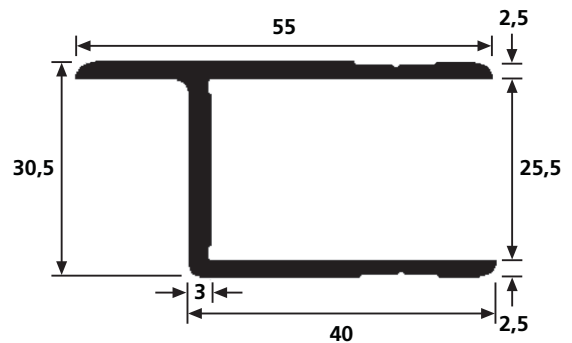
U-Edging Section approx. ± 0,71 kg/m

Item mejo	Surface	Length
10 001 96	blank	6 m



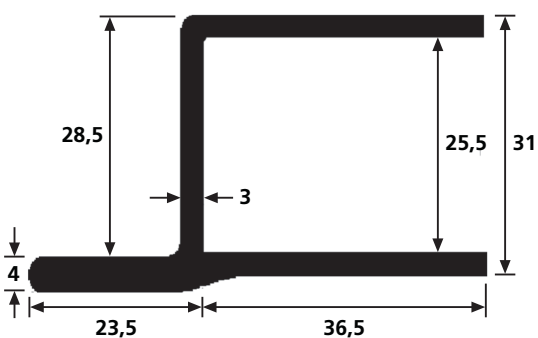
U-Edging Section approx. ± 0,89 kg/m

Item mejo	Surface	Length
10 001 97	blank	7,2 m



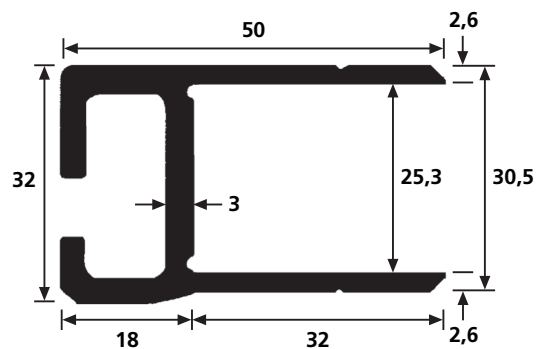
Door fitting Section approx. ± 0,80 kg/m

Item mejo	Surface	Length
10 001 98	blank	6 m



Door fitting Section approx. ± 1,04 kg/m

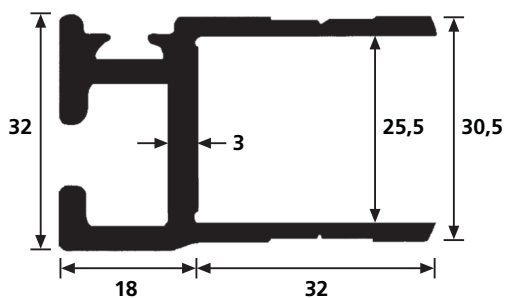
Item mejo	Surface	Length
10 002 00	blank	6 m



Door fitting Section approx. ± 1,10 kg/m

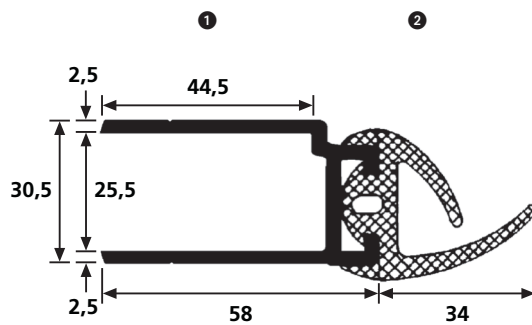
Item mejo	Surface	Length
10 001 99	blank	7,2 m

25 mm



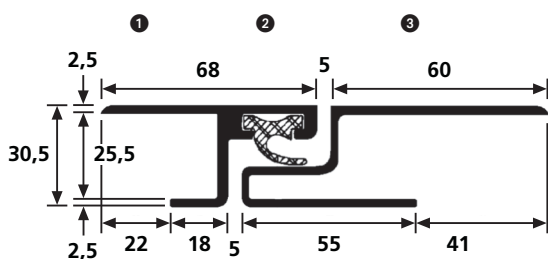
Door fitting Section approx. ± 1,11 kg/m

Item mejo	Surface	Length
10 002 01	blank	7,2 m



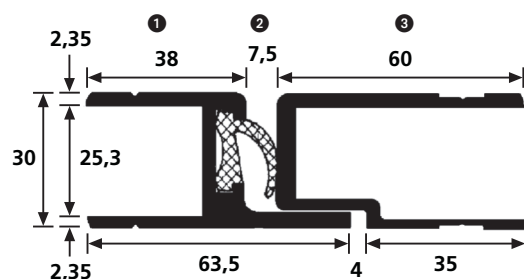
Door fitting Section approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 002 02	blank	6,5 m	1,51
(2) 10 001 80	rubber profile	6,5 m	0,54



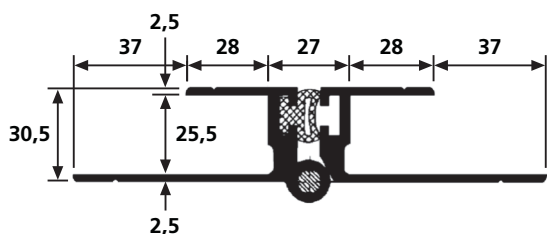
Door fitting Section approx. ±

Item mejo	Surface	Length	kg/m
(1) 10 002 03	blank	6,5 m	1,00
(2) 10 001 84	rubber profile	6,5 m	0,19
(3) 10 002 04	blank	6,5 m	1,24



Door fitting Section approx. ±

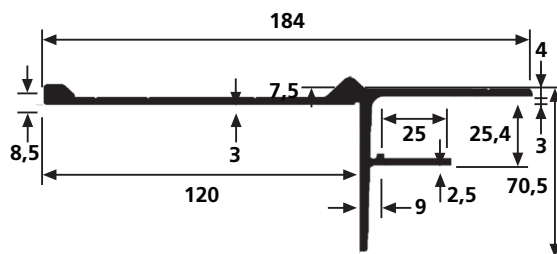
Item mejo	Surface	Length	kg/m
(1) 10 002 05	blank	6,5 m	1,11
(2) 10 001 84	rubber profile	6,5 m	0,19
(3) 10 002 06	blank	6,5 m	1,00



hinge complete* approx. ± 2,93 kg/m

Item mejo	Surface	Length
10 002 07	blank	1,8 m – 3 m

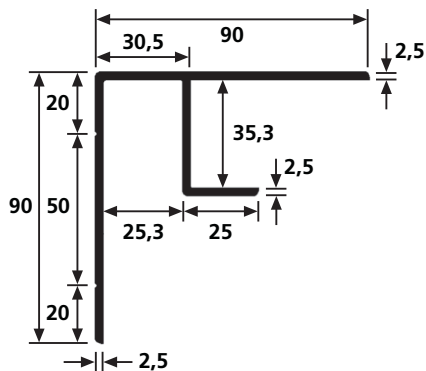
* with rubber profile



Joint Sections approx. ± 2,80 kg/m

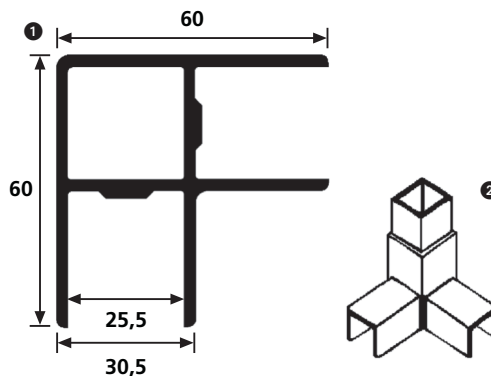
Item mejo	Surface	Length
10 002 08	blank	7,5 m – 12,5 m

25 mm



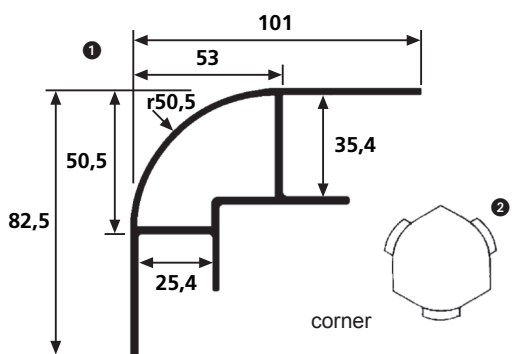
Corner-joint-section approx. ± 1,60 kg/m

Item mejo	Surface	Length
10 002 09	blank	7,5 m



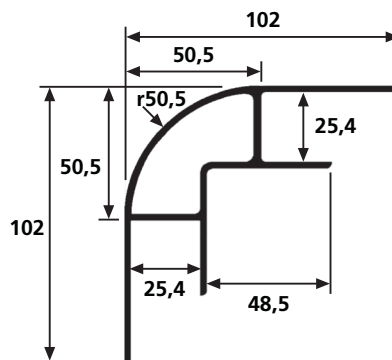
Corner-joint-section approx. ±

Item mejo	Surface	Length	kg/m	kg/pcs.
(1) 10 002 10	blank	6 m	1,49	
(2) 10 002 11	blank			1,04



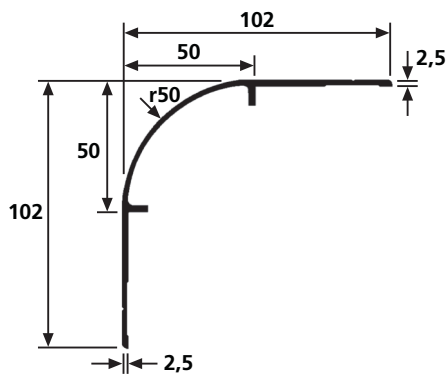
Corner-joint-section approx. ±

Item mejo	Surface	Length	kg/m	kg/pcs.
(1) 10 002 12	blank	6 m	2,09	
(2) 10 001 88	blank			0,28



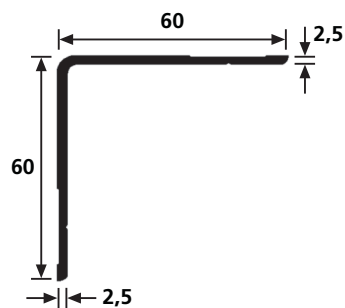
Corner-joint-section approx. ± 2,20 kg/m

Item mejo	Surface	Length
10 002 13	blank	7,5 m



Corner-joint-section approx. ± 1,25 kg/m

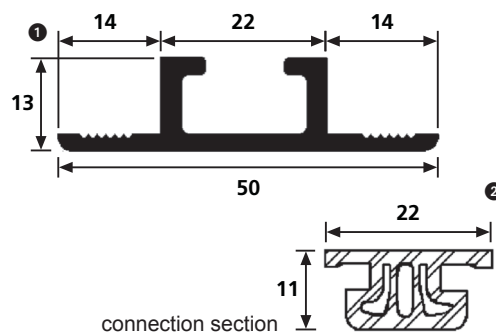
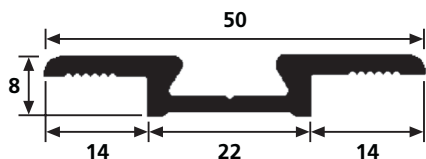
Item mejo	Surface	Length
10 002 14	blank	7,5 m



Corner-joint-section approx. ± 0,70 kg/m

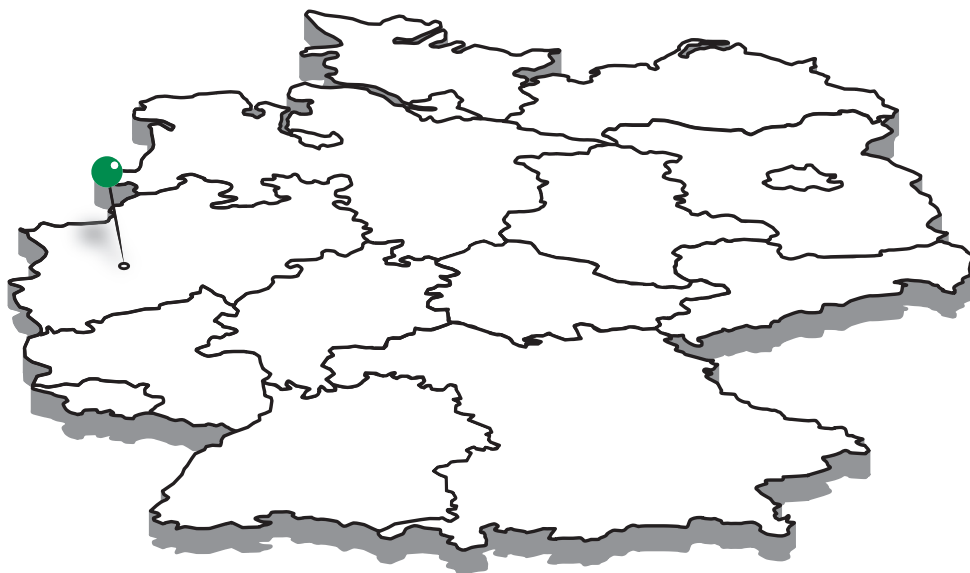
Item mejo	Surface	Length
10 002 15	blank	7,5 m

25 mm



Butt-joint Sections		approx. ± 0,50 kg/m
Item mejo	Surface	Length
10 002 16	blank	6 m

Butt-joint Sections			approx. ±
Item mejo	Surface	Length	kg/m
(1) 10 002 17	blank	6 m	0,51
(2) 10 001 92	rubber profile	6 m	0,17



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