

ISOLALU+ BRACKET LR80 - LR150 - LR160



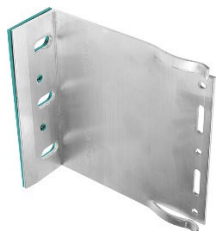
LR80x40 (40 to 140 mm)



LR80x50 (160 to 300 mm)



LR150x40 (40 to 140 mm)



LR160x50 (160 to 300 mm)



PRODUCT DEFINITION

- Extruded and pressed bracket.
- Available alone or with a pre-assembled THERMOSTOP wedge which reduces thermal bridges in the insulated wall.
- Internal clamps to facilitate the positioning of the profiles.

SCOPE OF APPLICATION

- Framework system for ventilated cladding, in new and renovation.
- Bracket for vertical fixing of aluminium profiles.
- Ideal for fixing facade panels > 12 kg, ceramic slabs, terracotta shingles, stones, etc.

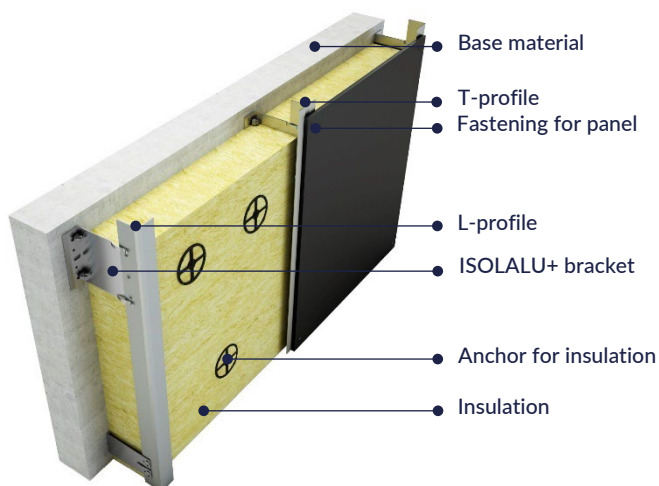
MATERIAL & FINISH

Material:

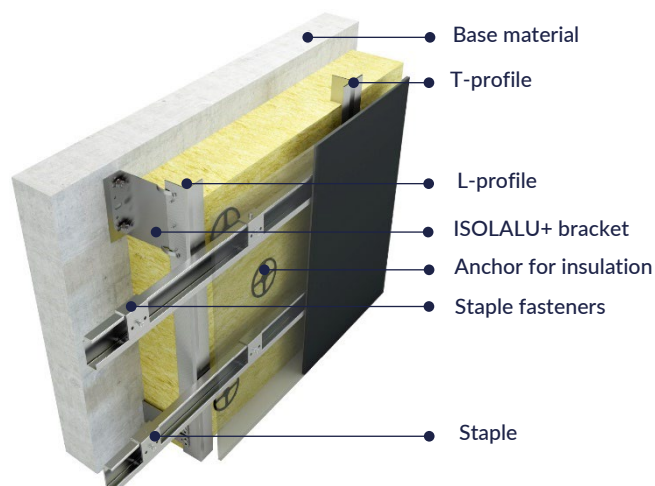
- Bracket: aluminium alloy EN-AW 6063 T66 ($R_{mmin} = 245 \text{ MPa}$ - $R_{p0,2min} = 200 \text{ MPa}$)
- THERMOSTOP Wedge: polyamide 6 reinforced 30% of glass fibres (PA6 +30%GF) turquoise colour RAL 5018.

INSTALLATION

Single network aluminum framework system



Double network aluminum framework system



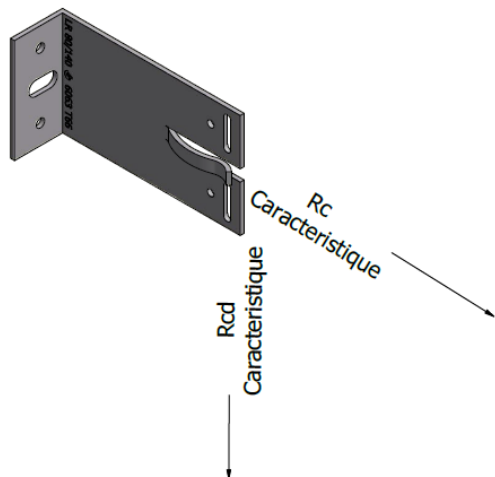
Associated products:

- FAÇALU T-profile (voir FT 4470)
- FAÇALU L-profile (voir FT 4471)
- FAÇALU TUBE profile 60x40x2,5 mm (see TDS 4491)
- FAÇALU OMEGA profile (see TDS 4479)

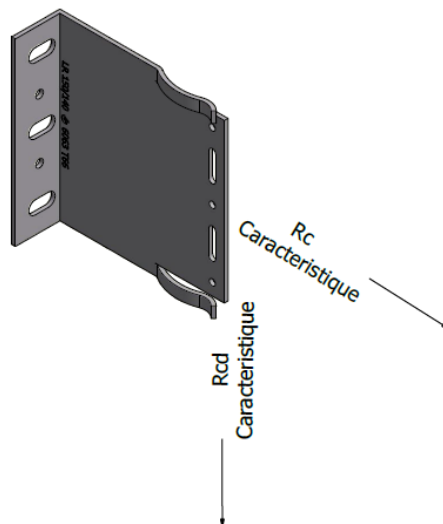
PERFORMANCES

Characteristic resistances:

LR80 (40 to 300 mm)



LR150 (40 to 140 mm) / LR160 (160 to 300 mm)



CHARACTERISTIC RESISTANCES DETERMINED FROM TESTS OF ANNEXE 1 OF THE CSTB 394 SPECIFICATIONS

Dimensions of bracket		Vertical load		Horizontal load
Length (mm)	Height (mm)	R _{cd} 1 mm (daN)	R _{cd} 3 mm (daN)	R _c (daN)
40	80	160	160	330
60		160	160	330
80		157	158	330
100		148	152	330
120		120	140	330
140		60	121	330
160		62	125	500
180		51	104	500
200		40	88	500
220		35	76	500
240		32	68	500
260		27	56	500
280		24	48	500
300		23	44	500
40	150	900	900	500
60		670	670	500
80		530	530	500
100		420	420	500
120		310	340	500
140		230	285	500
160		343	388	975
180	160	260	364	975
200		235	305	975
220		209	281	975
240		175	240	975
260		142	210	975
280		115	188	975
300		95	170	975

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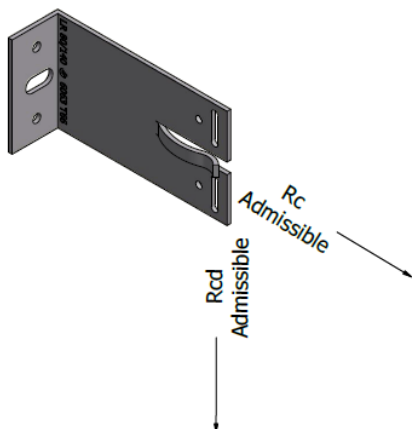
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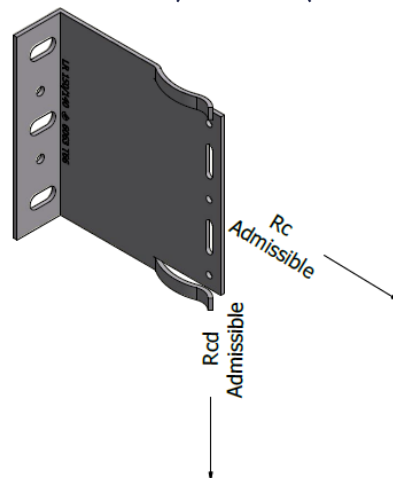
PERFORMANCES

Admissible resistances:

LR80 (40 to 300 mm)



LR150 (40 to 140 mm) / LR160 (160 to 300 mm)



ADMISSIBLE RESISTANCES DETERMINED FROM TESTS OF ANNEXE 1 OF THE CSTB 394 SPECIFICATIONS

Dimensions of bracket		Vertical load (Coef. 2,25) ⁽¹⁾		Horizontal load (Coef. 1,67) ⁽¹⁾
Length (mm)	Height (mm)	R _{cd} 1 mm (daN)	R _{cd} 3 mm (daN)	R _c (daN)
40	80	71,1	71,1	197,6
60		71,1	71,1	197,6
80		69,8	70,2	197,6
100		65,8	67,6	197,6
120		53,3	62,2	197,6
140		26,7	53,8	197,6
160		27,6	55,6	299,4
180		22,7	46,2	299,4
200		17,8	39,1	299,4
220		15,6	33,8	299,4
240		14,2	30,2	299,4
260		12,0	24,9	299,4
280		10,7	21,3	299,4
300		10,2	19,6	299,4
40	150	400,0	400,0	299,4
60		297,8	297,8	299,4
80		235,6	235,6	299,4
100		186,7	186,7	299,4
120		137,8	151,1	299,4
140		102,2	126,7	299,4
160	160	152,4	172,4	583,8
180		115,6	161,8	583,8
200		104,4	135,6	583,8
220		92,9	124,9	583,8
240		77,8	106,7	583,8
260		63,1	93,3	583,8
280		51,1	83,6	583,8
300		42,2	75,6	583,8

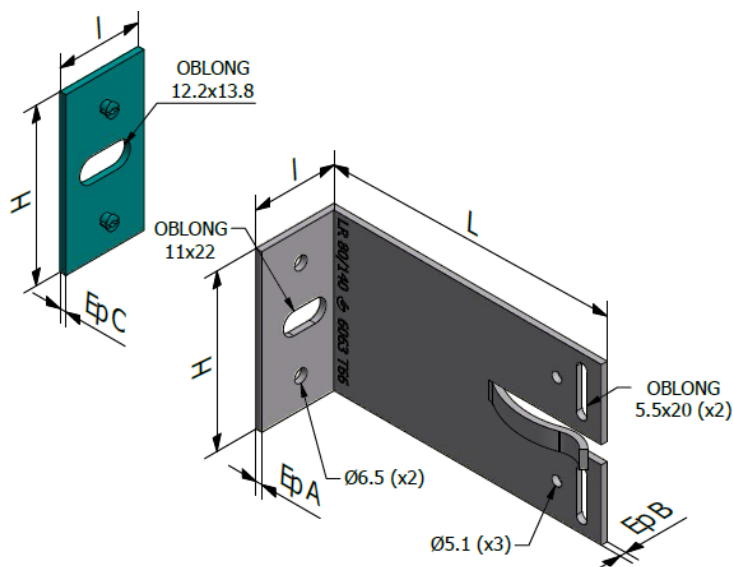
(1): The values indicated in the table above are admissible values with a coefficient applied to the characteristic values of 2.25 for vertical loads and 1.67 for horizontal loads. Other coefficients may be applied depending on the configuration of the system (refer to the CSTB specifications).

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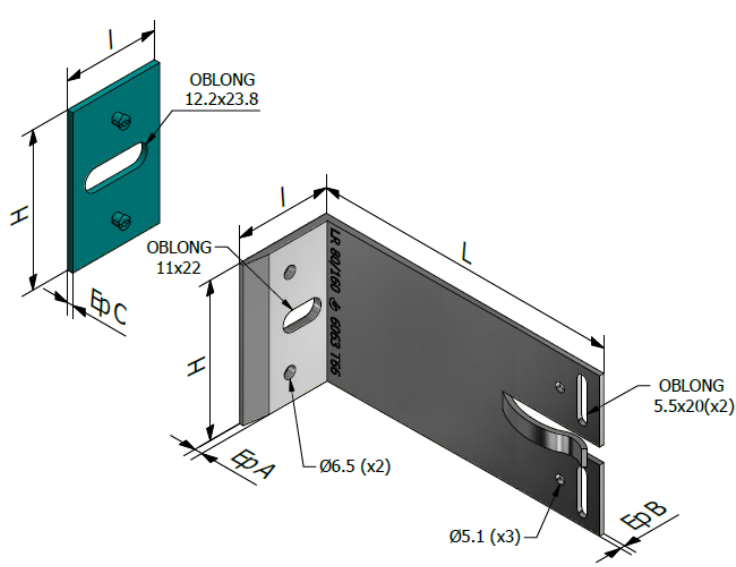
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DIMENSIONS & CODES

LR80x40 (40 à 140 mm)



LR80x50 (160 à 300 mm)



L. (mm)	l. (mm)	H. (mm)	Ep. A (mm)	Ep. B (mm)	Dn _{mini}	Dn _{maxi}	Code Bracket alone	Code Bracket + wedge
40	40	80	3	3	70	70	610 000	610 100
60					90	90	610 002	610 102
80					90	110	610 004	610 104
100					110	130	610 006	610 106
120					130	150	610 008	610 108
140					150	170	610 010	610 110
160	50	80	4	2.5	170	190	610 012	610 112
180					190	210	610 014	610 114
200					210	230	610 016	610 116
220					230	250	610 018	610 118
240					250	270	610 020	610 120
260					270	290	610 022	610 122
280					290	310	610 024	610 124
300					310	330	610 026	610 126

L.: Length of bracket – l.: Width of bracket – H.: Height of bracket – Thickness. Ep. A: Heel Thickness – Ep. B: Minimum flange thickness – Dn_{mini}: Minimum bare-to-bare distance – Dn_{maxi}: Maximum bare-to-bare distance

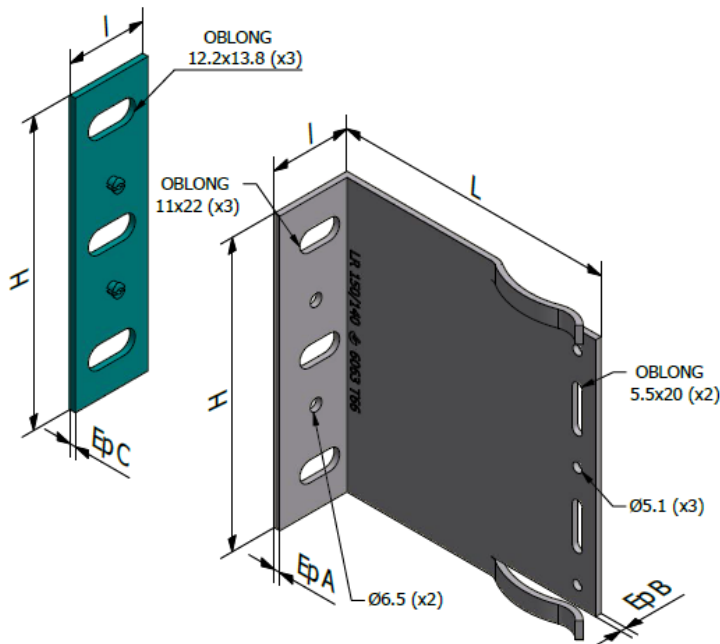
THERMAL BRIDGE BREAK WEDGE	L. (mm)	l. (mm)	Ep. C (mm)	Code
For ISOLALU LR80x40 (40 to 140 mm)	80	40	3	611 490 ⁽²⁾
For ISOLALU LR80x50 (160 to 300 mm)	80	50	3	611 491 ⁽³⁾

L.: Length – W.: Width – Ep. C: Thickness

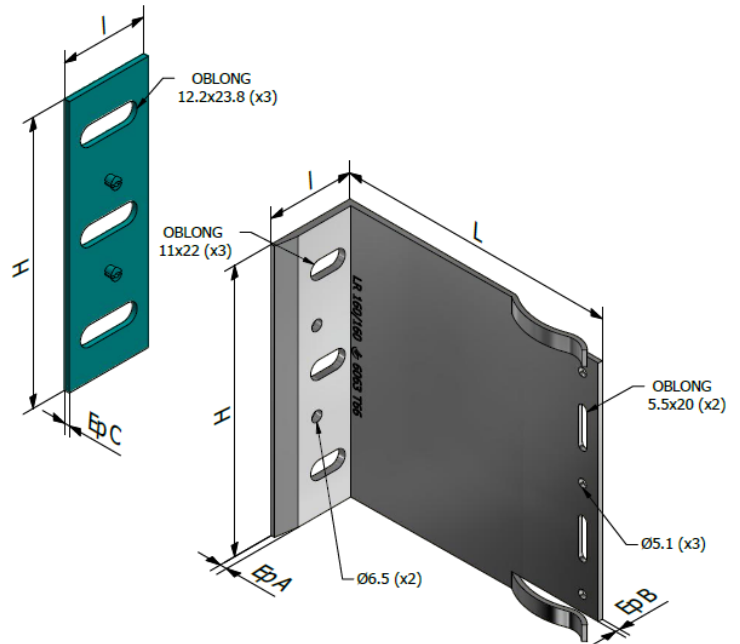
(2): see FT 4386

(3): see FT 4387

LR150x40 (40 to 140 mm)



LR160x50 (160 to 300 mm)



L. (mm)	I. (mm)	H. (mm)	Ep. A (mm)	Ep. B (mm)	Dn _{mini}	Dn _{maxi}	Code Bracket alone	Code Bracket + wedge
40	40	150	3	3	70	70	610 200	610 300
60					90	90	610 202	610 302
80					90	110	610 204	610 304
100					110	130	610 206	610 306
120					130	150	610 208	610 308
140					150	170	610 210	610 310
160	50	160	4	4	170	190	610 212	610 312
180					190	210	610 214	610 314
200					210	230	610 216	610 316
220					230	250	610 218	610 318
240					250	270	610 220	610 320
260					270	290	610 222	610 322
280					290	310	610 224	610 324
300					310	330	610 226	610 326

L.: Length of bracket – I.: Width of bracket – H.: Height of bracket – Thickness. Ep. A: Heel Thickness – Ep. B: Minimum flange thickness – Dn_{mini}: Minimum bare-to-bare distance – Dn_{maxi}: Maximum bare-to-bare distance

THERMAL BRIDGE BREAK WEDGE	L. (mm)	I. (mm)	Ep. C (mm)	Code
For ISOLALU LR80x40 (40 to 140 mm)	150	40	3	611 492 ⁽⁴⁾
For ISOLALU LR80x50 (160 to 300 mm)	160	50	3	611 493 ⁽⁵⁾

L.: Length – W.: Width – Ep. C: Thickness

(2): see FT 4386

(3): see FT 4387

CONFORMITY

- French standard DTU 45.4.
- French specifications CSTB 3194.
- Reaction to fire: A1 according to NF EN 13501-1 (bracket alone).
- The characteristic resistances come from tests carried out by the LR ETANCO laboratory.
- Seismic resistance: generic test report n° EEM-20-26087413 (façade panels LUNARA ETERNIT)

MARKING & LABELLING

- On packaging: ISOLALU PLUS BRACKET + LR80 + LENGTH + CODE.
- On packaging: ISOLALU PLUS BRACKET + LR80 + LENGTH + THERMOSTOP + CODE.
- On packaging: ISOLALU PLUS BRACKET + LR150 + LENGTH + CODE.
- On packaging: ISOLALU PLUS BRACKET + LR150 + LENGTH + THERMOSTOP + CODE.
- On packaging: ISOLALU PLUS BRACKET + LR160 + LENGTH + CODE.
- On packaging: ISOLALU PLUS BRACKET + LR160 + LENGTH + THERMOSTOP + CODE.

QUALITY CONTROL

- ISO 9001 certified quality management system according to the certificate in force.

NOTA

These products are intended for professional installers landlords whose the related service includes supply and installation. In accordance with rules and normative regulation, it's their responsibility to check that the use of these products is in conformity to themselves needs and their customers. They have to insure as well the adequacy of this material with their real operating conditions. The company excludes any guarantee for the use that does not respect these conditions. His responsibility is limited to the strict compliance with the specifications stipulated on the customer's purchase order. The guarantee is limited to the replacement of defective parts acknowledged by the Company's technical service, without workforce costs and travel expenses. It excludes material damage or physical injury and others direct or indirect damages, material or immaterial, which may result from defective parts including installation that not complying with the use for which they are designed and produced.

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