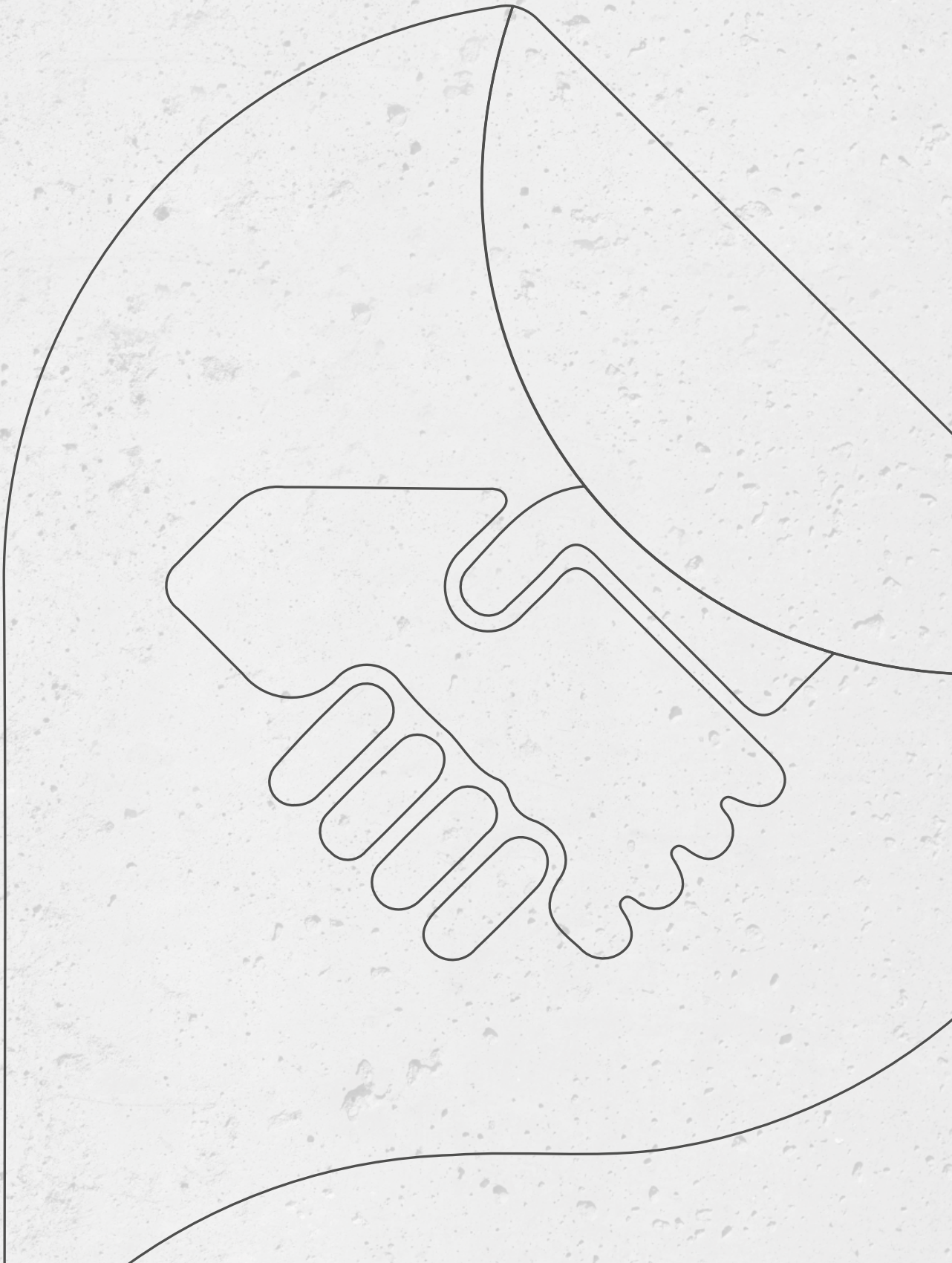
LRH Unique Supplies

ALUMINUM VENTILATED FACADE SYSTEMS

2024

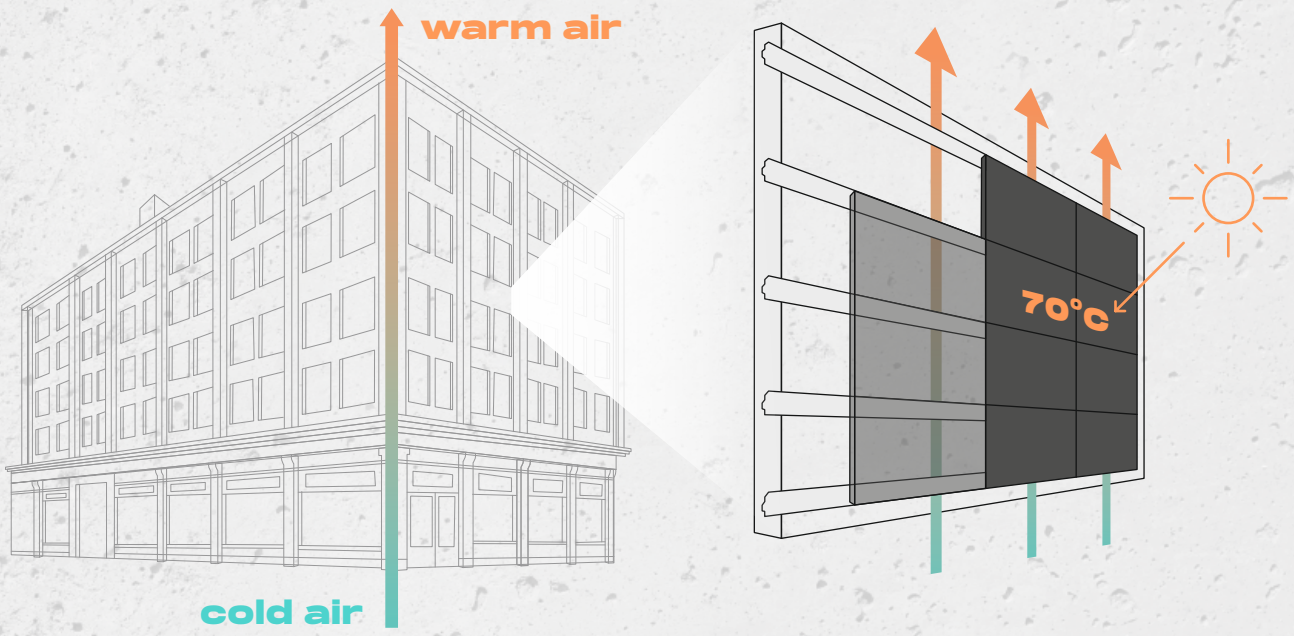


This concept proposes an innovative solution for cladding exterior walls with various materials, primarily aimed at separating the cladding material from the supporting wall.

By implementing this concept, a ventilated façade is achieved through the installation of a rigid covering, which is separated from the building's wall and anchored to it to take on its own loads, in addition to the loads generated by the wind.

The cavity created between the cladding and the wall must be open at certain points, generally at the joints, to ensure adequate ventilation. This cavity helps improve the building's performance by preventing moisture and condensation accumulation, and it provides greater stability to the entire structure, contributing to extending its lifespan.

In principle, the installation involves mounting an aluminum frame on the wall and the building's structure, followed by securing the cladding panels.



ADVANTAGES

✔
The ventilated facade offers numerous advantages in protecting the enclosing wall and the building's structure against atmospheric agents, thus contributing to improved functionality and enhanced durability.

✔
Firstly, this efficient solution reduces thermal expansion and prevents the appearance of moisture stains. By separating the cladding material from the brick wall, the ventilated façade provides a protective barrier against the elements and helps maintain the aesthetic appearance of the building over the long term.

✔
The facade is a crucial element in protecting the building against atmospheric agents, and due to its superior ceramic performance, a significant improvement in this protection is achieved. The ceramic material used in the facade cladding is recognized for its weather resistance and insulating properties.

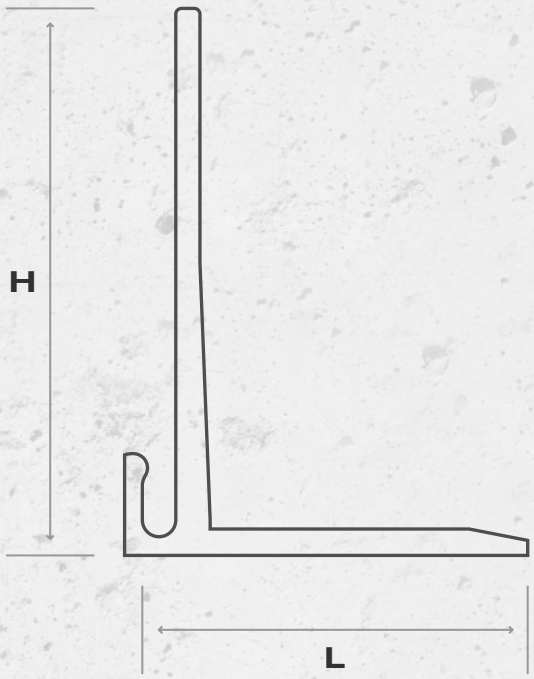
✔
Ventilated facades offer architects elements with an attractive design that can be used in a variety of projects and open new horizons of creativity.

✔
·Another advantage of the ventilated facade is the generation of additional interior space. By installing thermal insulation on the exterior side of the brick wall, the thermal inertia of the supporting wall is optimized, leading to significant energy savings and improved thermal comfort inside the building.

✔
An essential aspect of this solution is the elimination of thermal bridges. The ventilated facade creates a ventilated cavity between the ceramic panels and the cladding, allowing for the installation of continuous thermal insulation. This ensures the protection of concrete panels, shutter boxes, and other important structural elements, reducing the risk of condensation and damage caused by moisture.

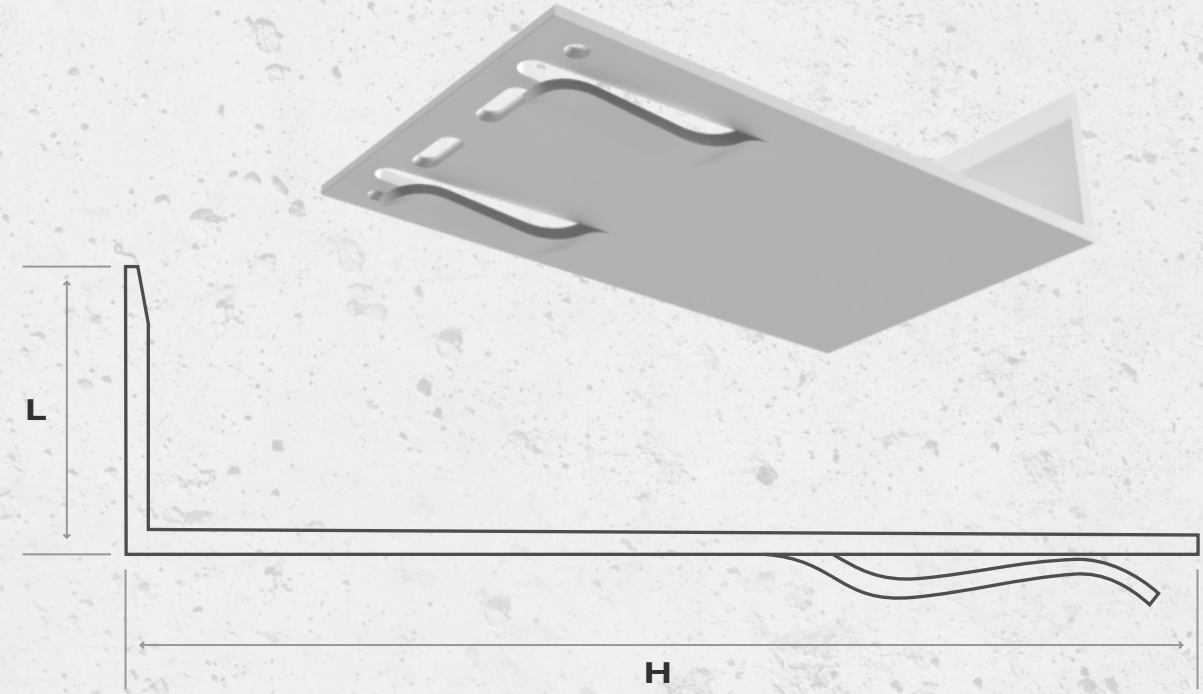
✔
The weight of the facade is supported by the concrete structure, while the cladding fulfills its role of withstanding wind loads through the aluminum framework. In this way, a balanced distribution of functions is achieved, promoting the durability and stability of the building.

In conclusion, the ventilated facade represents an innovative and energy-efficient solution that brings numerous benefits in protecting and improving the building's performance.



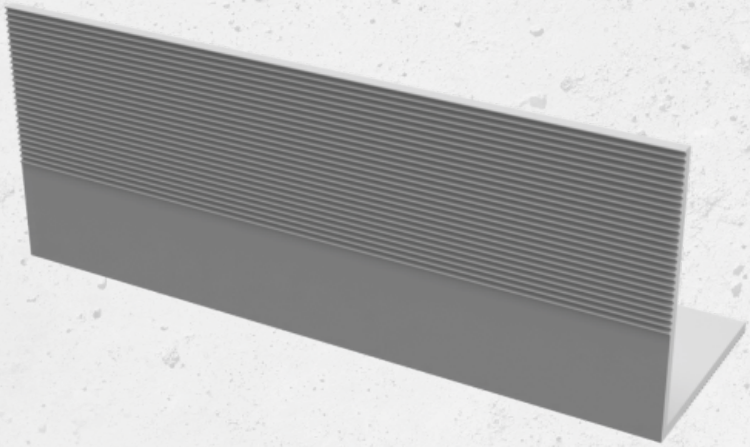
CLAMP

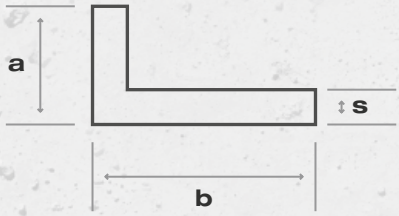
profile code	L	H	material observations
LRHus-01.04.02 L42x40x40	40,00	40,00	EN AW - 6063 [AlMg0.7Si] T66
LRHus 01.04.03 L42x60x40	40,00	60,00	EN AW - 6063 [AlMg0.7Si] T66



CONSOLE

profile code	L	H	material observations
LRHus-01.01.03 - Profil consola L40x120x90	40,00	120,00	EN AW - 6063 [AlMg0.7Si] T66
LRHus-01.01.02 - Profil consola L40x150x90	40,00	150,00	EN AW - 6063 [AlMg0.7Si] T66
LRHus-01.01.02 - Profil consola L40x180x90	60,00	180,00	EN AW - 6063 [AlMg0.7Si] T66
LRHUS-01.01.02 - Profil consola L40x210x90	60,00	210,00	EN AW - 6063 [AlMg0.7Si] T66

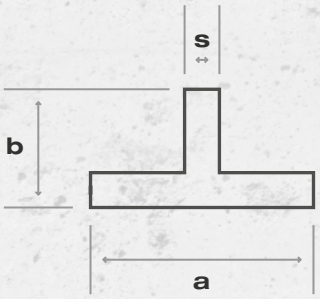




‘L’ PROFILE

profile code	a	b	s	material observations	Kg/ ml
C01	20,00	40,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,33
C02	20,00	60,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,45
C03	40,00	50,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,502
C04	60,00	60,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,675

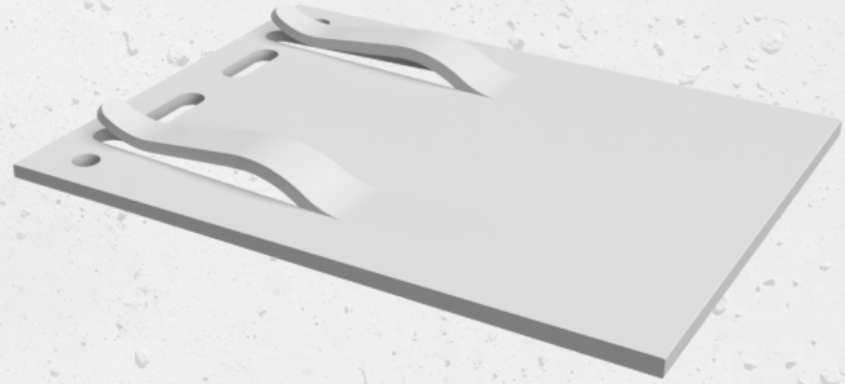
For different sizes of the featured parts, please contact us.

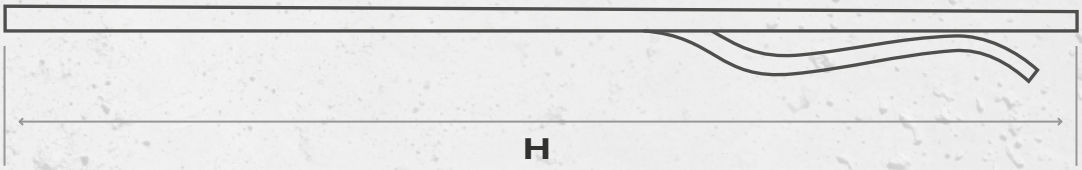


‘T’ PROFILE

profile code	a	b	s	material observations	Kg/ ml
T01	80,00	45,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,673
T02	100,00	50,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,799
T03	110,00	50,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	0,91
T04	120,00	60,00	2,0	EN AW – 6063 [AlMg0.7Si] T66	1,015

For different sizes of the featured parts, please contact us.





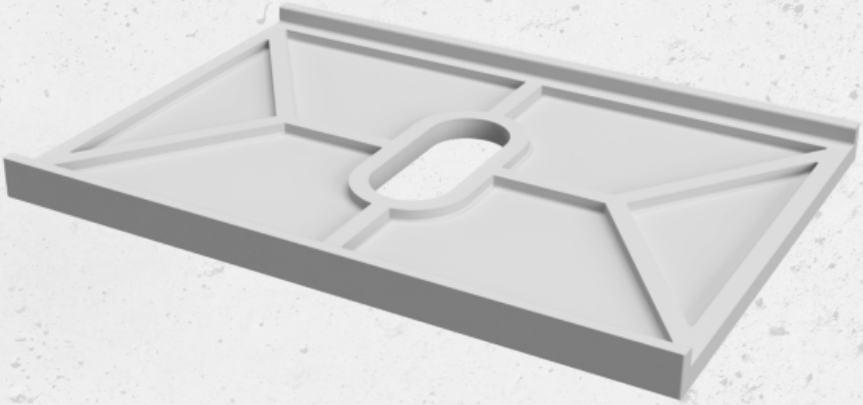
PROFILE EXTENSION

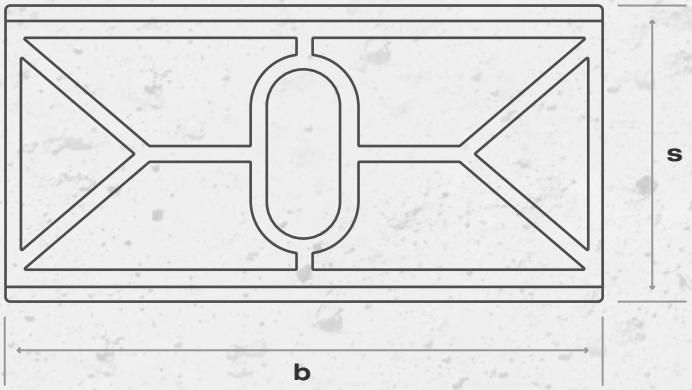
profile code	H	material observations
LRHUS-01.05.Rev.A - 90x2.5x90	90,00	EN AW - 6063 [AlMg0.7Si] T66

As custom system developers for ventilated facades, we encourage you to get in touch with us to discuss any new elements you wish to integrate. We will assess the possibility of extrusion and identify the optimal technological solution for your needs.

The polyamide bushes come in two types, used for fixed holes and mobile holes that allow the fibercement to work with temperature and humidity differences for the following:

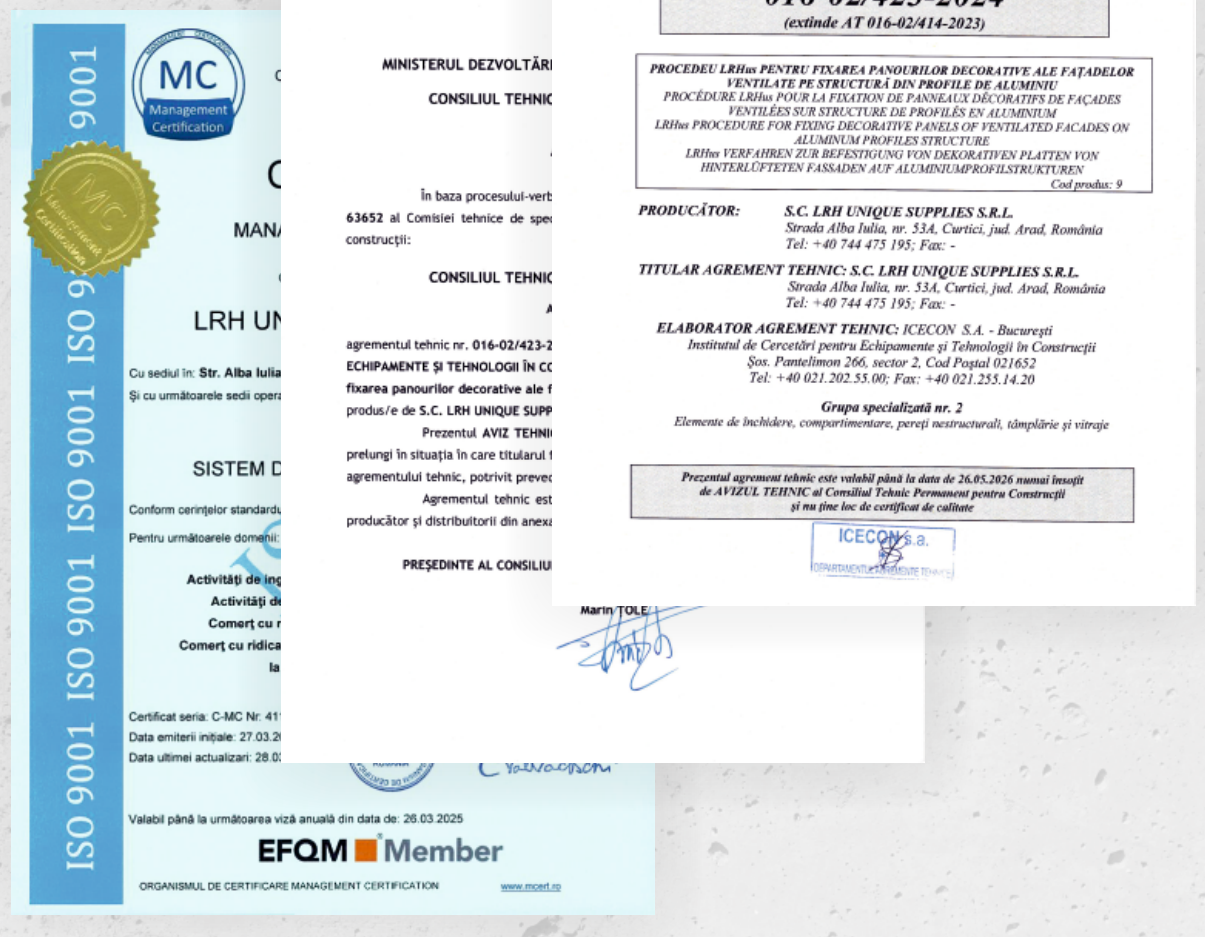
1. Thermal and electrical insulation
2. Chemical resistance
3. Mechanical strength and durability
4. Corrosion prevention





THERMAL BARRIER

profile code		b	s	material observations
Tc01	LRHUS-01.01.01.Rev.C	55	40	Poliamidă 6
Tc02	LRHUS-01.04.01.Rev.D	40	90	Poliamidă 6
Tc03	LRHUS-01.04.01.Rev.E	60	90	Poliamidă 6



MINISTERUL DEZVOLTĂRII , LUCRĂRILOR PUBLICE ŞI ADMINISTRAŢIEI
CONSILIUL TEHNIC PERMANENT PENTRU CONSTRUCŢII

Agrement Tehnic
016-02/423-2024
(extinde AT 016-02/414-2023)

PROCEDEU LRHus PENTRU FIXAREA PANOURILOR DECORATIVE ALE FAŢADELOR VENTILATE PE STRUCTURĂ DIN PROFILE DE ALUMINIU
PROCÉDURE LRHus POUR LA FIXATION DE PANNEAUX DÉCORATIFS DE FAÇADES VENTILÉES SUR STRUCTURE DE PROFILÉS EN ALUMINIUM
LRHus PROCEDURE FOR FIXING DECORATIVE PANELS OF VENTILATED FACADES ON ALUMINUM PROFILES STRUCTURE
LRHus VERFAHREN ZUR BEFESTIGUNG VON DEKORATIVEN PLATTEN VON HINTERLÜFTETEN FASSADEN AUF ALUMINIUMPROFILSTRUKTUREN
Cod produs: 9

PRODUCĂTOR: S.C. LRH UNIQUE SUPPLIES S.R.L.
Strada Alba Iulia, nr. 53A, Curtici, jud. Arad, România
Tel: +40 744 475 195; Fax: -

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ELABORATOR AGREMENT TEHNIC: ICECON S.A. - Bucureşti
Institutul de Cercetări pentru Echipamente şi Tehnologii în Construcţii
Şos. Pantelimon 266, sector 2, Cod Poştal 021652
Tel: +40 021.202.55.00; Fax: +40 021.255.14.20

Grupa specializată nr. 2
Elemente de închidere, compartimentare, pereţi nestructurali, tâmplărie şi vitraje

Prezentul agrement tehnic este valabil până la data de 26.05.2026 numai însoţit de AVIZUL TEHNIC al Consiliul Tehnic Permanent pentru Construcţii şi nu ţine loc de certificat de calitate

ICECON S.A.

Marin TOLE

ISO 9001 ISO 9001 ISO 9001 ISO 9001

MC Management Certification

LRH UN

Cu sediul în: Str. Alba Iulia

SISTEM D

Conform cerinţelor standardu

Pentru următoarele domenii:

Activităţi de ing
Activităţi d
Comerţ cu r
Comerţ cu ridica
la

Certificat seria: C-MC Nr: 41
Data emiterii iniţiale: 27.03.2
Data ultimei actualizări: 28.0

Valabil până la următoarea viză anuală din data de: 26.03.2025

EFQM Member

ORGANISMUL DE CERTIFICARE MANAGEMENT CERTIFICATION www.mcert.ro

THANK YOU

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