

# Opening Frames 70TH & 32TH

High Performance



Building

ALUMINIUM



INSTALLUX

# Opening Frames 70TH & 32TH

## Thermal and Aesthetic Excellence

Installlux Aluminium's 70TH & 32TH range of high-performance doors and windows offers innovative solutions for the service or multiple-dwelling sector. With its 70-mm high-performance insulated profiles and its customizable contemporary look, it is particularly suited for new construction in the LEB (Low-Energy Building) category.

The diverse range and options of accessories and finishing make Installlux Aluminium's offer able to satisfy any project requirements.

## Your Reasons to Choose Installlux Aluminium's 70TH & 32TH Series of High-Performance Doors and Windows

- 70-mm profiles with advanced thermal performances, perfectly suited for the LEB category.
- Outstanding aesthetics fit for elegant and harmonious top-of-the-range realizations.
- Wide choice of design and finishings (colours, accessories) allowing for original and customized realizations.

**Espace® 70TH**

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**Espace® 70TH**

# High Performance

Espace® O.C. 70TH



Comète® 70TH

# Espace<sup>®</sup> 70TH



## — Features —

This high-performance series is perfectly suitable for the non-residential building market. Its great versatility makes it possible to design a great variety of combinations.

The square opening profile is associated with square glazing beads cut at 90° for quick assembly.

A choice of compatible handles gives the windows and doors a homogeneous look.

The fixed frame profiles are also available with a 16-mm chamber.

## Pluses Product

### Insulation & Weatherproofing

- Double and triple glazing up to 55 mm.
- Aligned thermal surfaces thanks to latest-generation centered insulating bars.
- Bicomponent central gasket.
- Improved performance thanks to additional gasket round the opening frame.

### Large Dimensions

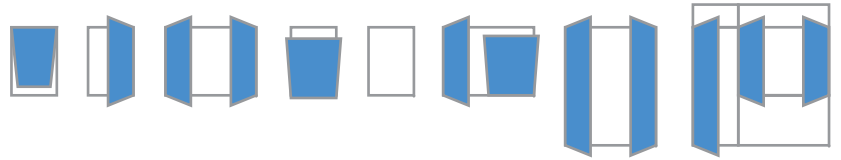
- High profile inertia for large openings.
- Suitable glazing pocket depth.

### Look

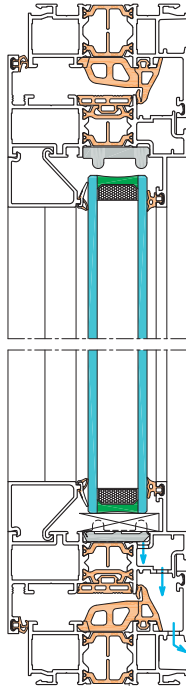
- Square modern appearance in- and outside.
- Concealed drainage.
- Unobtrusive grey or black gaskets.
- Concealed hinges.

### Standards

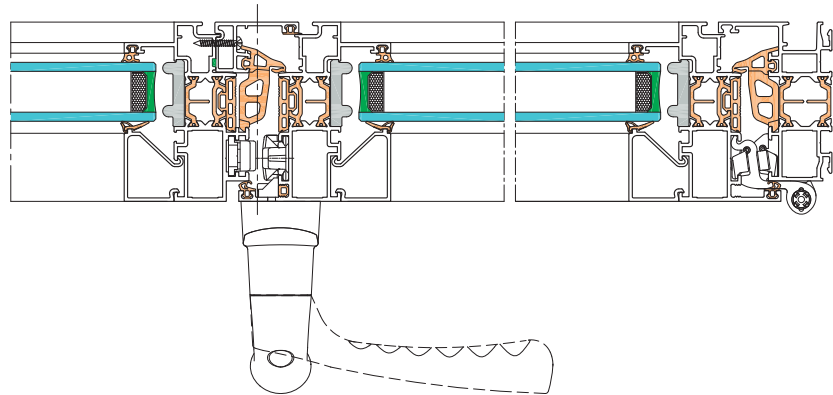
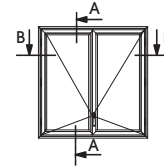
- Low threshold complying with PMR standard available for french door.
- Complying with RT2012, DTU 36.5, and LEB regulations.
- Technique sanctioned by a CSTB TAD.



## —Typical Sections



Vertical section A-A



Horizontal section B-B

## —Performances

A.E.V. (Air - Water - Wind)				
Tilt & turn window 1 leaf			E*750A	V*C4
Tilt & turn french door 2 leaves			E*900A	V*C3
French door	1 leaf		E*750A	V*C4
	2 leaves		E*900A	V*C3
	2 leaves with sidelight		E*900A	V*C4
	2 leaves with low threshold		E*7A	V*C3
Awning window			E*900A	V*C4
Bottom-hung			E*750A	V*C4

THERMAL						
Type			Ug Value Glazing (W/m <sup>2</sup> .K)	Uw value Naked Window (W/m <sup>2</sup> .K)	Class (Acotherm Label)	
Double Glazing	Window	1 leaf (1.25 x 1.48)	1.1	1.6	-	
		2 leaves (1.53 x 1.48)		1.7	Th9	
		French door 2 leaves (1.53 x 2.18)		1.6	Th10	
Double Glazing	Window	1 leaf (1.25 x 1.48)	1.0	1.4	-	
		2 leaves (1.53 x 1.48)		1.5	Th10	
		French door 2 leaves (1.53 x 2.18)		1.4	Th11	
Triple Glazing	Window	1 leaf (1.25 x 1.48)	0.8	1.3	-	
		2 leaves (1.53 x 1.48)		1.4	Th11	
		French door 2 leaves (1.53 x 2.18)				

CSTB study report no. BV10-500

ACOUSTIC					
Glazing type		Thickn. (mm)	Rw Window (dBA)	Class (Acotherm Label)	
Double Glazing	4-16-4	Window 24	32	AC1	
		French door 24			
	44.2-12-10 silence	Window 31	41		
		French door 31	40		
44.2A-20-66.2A silence	Window 42	44	AC4		
	French door 42	44	AC4		
Triple Glazing	4-10-4-10-4	Window 32	33	AC2	
		French door 32			

CSTB study report no. AC08-26015481/1 for the windows  
CSTB study report no. AC08-26015481/2 for the french doors

## Pluses Fabrication & Fitting

### Machining

- Punching tools available for all the machining operations.

### Assembly

- Specific 3D corner cleats, crimped or screw-fixed, sealant injection possible.

### Profile Optimization

- Identical self-clipping grooves in- and outside.
- Identical extension plates, flashings, and architraves for the 70TH & 32TH ranges.

### Fitting

- Choice of extension plates accepting any insulation thickness.
- Independent flashing for bottom waterproofness.
- Two installation possibilities: IWl (internal wall insulation) or EWl (external wall insulation).

# Espace® O.C. 70TH



## — Features —

This high-performance concealed opening window is perfectly suitable for the non-residential building market. Its specificity makes it possible to design combinations with fixed and openable lights with equal glazing areas.

Its performances are able to satisfy the toughest requirements of any building.

The square opening profile is associated with square glazing beads cut at 90° for quick assembly. Chamfered glazing beads are also available.

A choice of compatible handles gives the windows and doors a homogeneous look.

The fixed frame profiles are also available with a 16-mm chamber.

## Pluses Product

### Insulation & Weatherproofing

- Double and triple glazing up to 44 mm.
- Aligned thermal surfaces thanks to latest-generation centered insulating bars.
- Bicomponent central gasket.
- Improved performance thanks to additional gasket

### Technical

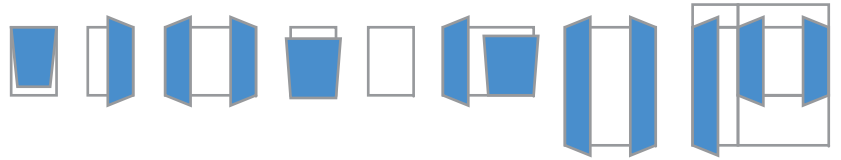
- Two fixed frame types: 90° or mitre-cut.

### Look

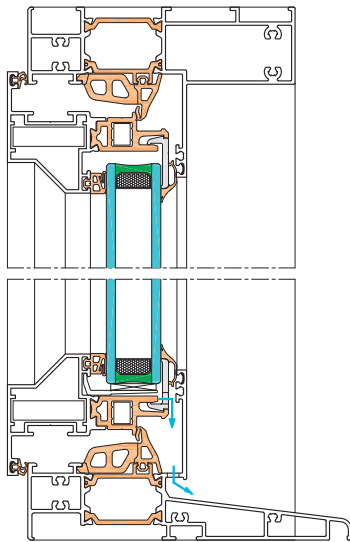
- Square aspect of fixed and opening frames, chamfered variant for openings.
- Concealed drainage.
- Unobtrusive gaskets.
- Concealed hinges.

### Standards

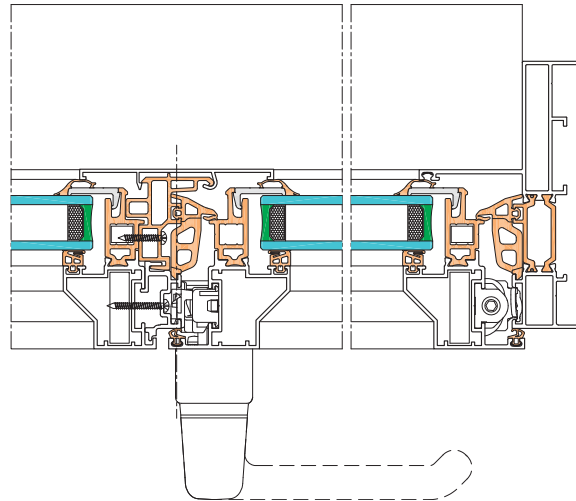
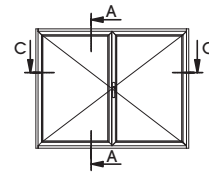
- Low threshold complying with PMR standard available for french door.
- Complying with RT2012, DTU 36.5, and LEB regulations.
- Technique sanctioned by a CSTB TAD.



## —Typical Sections



Vertical section A-A



Horizontal section C-C

## —Performances

THERMAL				
Type		Ug Value Glazing (W/m².K)	Uw value Naked Wind. (W/m².K)	Class (Acotherm Label)
Double Glazing	Window	1 leaf (1.25 x 1.48)	1.1	1.5
		2 leaves (1.53 x 1.48)	1.1	1.5
	French door 2 leaves (1.53 x 2.18)	1.1	1.4	
Double Glazing	Window	1 leaf (1.25 x 1.48)	1.0	1.4
		2 leaves (1.53 x 1.48)	1.0	1.4
	French door 2 leaves (1.53 x 2.18)	1.0	1.3	
Triple Glazing	Window	1 leaf (1.25 x 1.48)	0.6	1.0
		2 leaves (1.53 x 1.48)	0.6	1.1
	French door 2 leaves (1.53 x 2.18)	0.6	1.0	

## Pluses Fabrication & Fitting

### Machining

- Punching tools available for all the machining operations.

### Assembly

- Specific 3D corner cleats, crimped or screw-fixed, sealant injection possible.

### Profile Optimization

- Identical self-clipping grooves in- and outside.
- Identical extension plates, flashings, and architraves for the 70TH & 32TH ranges.

### Fitting

- Choice of extension plates accepting any insulation thickness.
- Independent flashing for bottom waterproofness.
- Four installation possibilities: IW1 (internal wall insulation), EW1 (external wall insulation), Monobrick, or wood structure.

# Galaxie<sup>®</sup> 32 TH



## — Features —

This high-performance sliding system is compatible with the 70TH doors and casement windows and meets the requirements of present-day architectural projects.

Square aspect in- and outside.

Choice of handles.

## Pluses Product

### Insulation & Weatherproofing

- Glazing up to 32 mm.
- Thermal shields.
- Central PVC interlock.
- Aligned thermal surfaces thanks to latest-generation centered insulating bars.
- Optional anti-bimetal twisting effect bar.

### Large Dimensions

- High profile inertia for large openings.
- Suitable glazing pocket depth.
- Sash weight up to 200 kg.

### Technical

- Numerous possibilities of design (2, 4, or 6 sashes).

### Look

- Concealed drainage.
- Grey or black gaskets.
- Square aspect.

### Safety

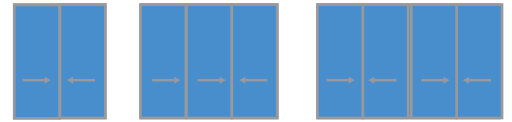
- 3-point lock.
- Glazing gasket with high tear-off resistance.

### Standards

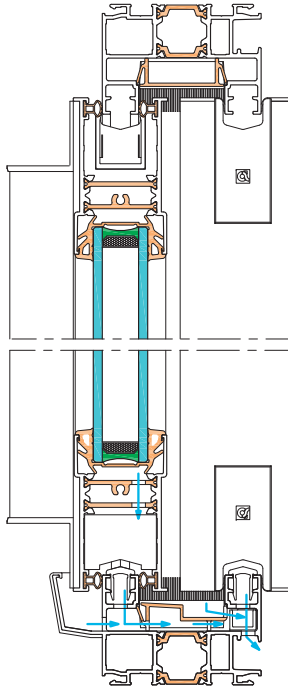
- Operating effort: class 1.
- Complying with RT2012, DTU 36.5, and LEB regulations.
- Technique sanctioned by a CSTB TAD.



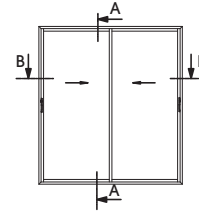
# Sliding Frame



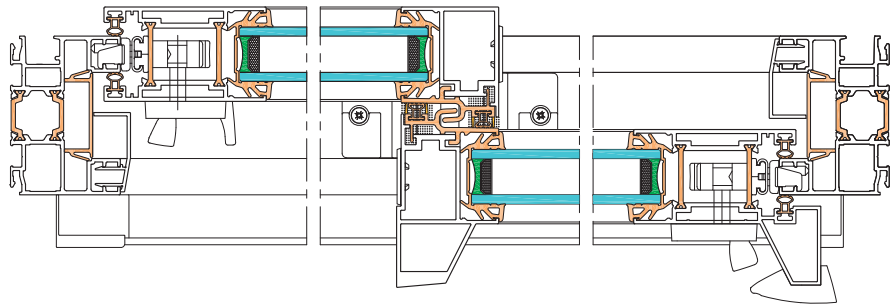
## —Typical Sections



Vertical section A-A



Horizontal section B-B



## —Performances

A.E.V. (Air - Water - Wind)				
Sliding door	2 sashes	A*3	E*7B	V*B3
	3 sashes		E*6B	

THERMAL					
Standard frames		Ug Value Glazing (W/m².K)	Uw value Naked Window (W/m².K)	Ujn	Class (Acotherm Label)
Double Glazing (1)	Sliding window (1.85 x 1.63)	1.1	1.9	1.6	Th8
Double Glazing (1)	Sliding door (1.85 x 2.18)	1.1	1.8	1.6	Th9
Double Glazing (2)	Sliding window (1.85 x 1.63)	1.0	1.8	1.6	Th9
Double Glazing (2)	Sliding door (1.85 x 2.18)	1.0	1.7	1.5	Th9

(1) CSTB study report no. BV08-647  
(2) SGG Planitherm® One Saint Gobain or similar

ACOUSTIC				
Glazing type		Thickn. (mm)	Rw Window (dBA)	Class (Acotherm Label)
Double Glazing	4-16-4	French door 24	31	AC1
Double Glazing	6-16-44/2 silence	French door 31	35	AC2

CSTB study report no. AC08-26015481/1 for the windows  
CSTB study report no. AC08-26015481/2 for the french doors

DTA no. 6/11-1960 dd. 19 May 2011

## Pluses Fabrication & Fitting

### Machining

- Punching tools available for all the machining operations.

### Assembly

- Specific 3D corner cleats, crimped or screw-fixed, sealant injection possible.

### Profile Optimization

- Identical self-clipping grooves in- and outside.
- Identical extension plates, flashings, and architraves for the 70TH & 32TH ranges.

### Fitting

- Choice of extension plates accepting any insulation thickness.
- Independent flashing for bottom waterproofness.
- Possibility to meet the PMR (access for disabled persons) standards.

# Comète® 70TH



## — Features —

This high-performance heavy-duty door is suitable for service, industrial, and commercial buildings. Possibility to be customized in harmony with the look of the windows. Its leaf may be fitted with glazing or with a solid panel

Square aspect in- and outside.

Apart from the traditional offer in harmony with the casement windows, a great variety of handles and horizontal or vertical push-pul bars are available.

## Pluses Product

### Insulation & Weatherproofing

- Infill up to 55 mm.
- Thermal-break threshold.
- Automatic door bottom sealing mechanism.
- Aligned thermal surfaces thanks to latest-generation centered insulating bars.
- Anti-bimetal twisting effect bar.

### Look

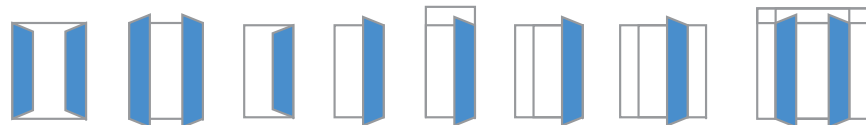
- Unobtrusive grey or black gaskets.
- Clamp hinges or surface hinges.
- Finishing gasket for doorframe (grey, black or white).
- Built-in concealed door closer.

### Safety

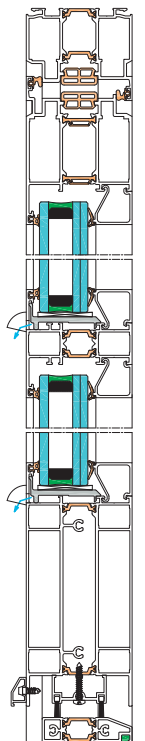
- Various types of locks, up to 5 points (3-point automatic lock).
- Optional anti-unhinging and burglar-proof devices.

### Standards

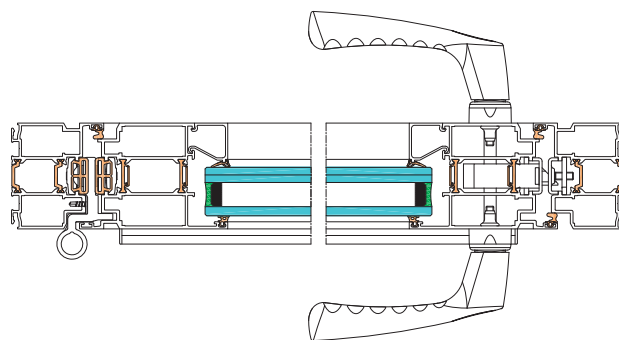
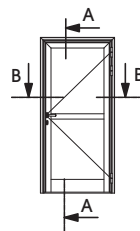
- Low threshold complying with PMR standard.
- Complying with RT2012, DTU 36.5, and LEB regulations.



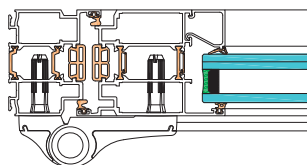
## —Typical Sections



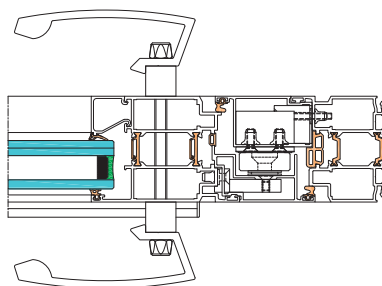
Vertical section A-A



Horizontal section B-B



Surface hinge



Detail of electromagnetic lock

## —Performances

A.E.V. (Air - Water - Wind)			
Inward opening door 1 leaf	A*4	E*5A	V*C4
THERMAL			
Door H = 2.10 m x W = 1 m, 4.16.4 glazing with Warm Edge spacer reinforced thermal insulation (Ug = 1.1 W/K.m²)	Average Uf (W/K.m²)	Uw (W/K.m²)	
Standard	2.6	1.8	
With thermal shield	2.5	1.7	

## Pluses Fabrication & Fitting

### Machining

- Punching tools available for all the machining operations.
- Optional 3-pt cam lock without machining for top & bottom points.
- Clamp hinges

### Assembly

- Specific 3D corner cleats, crimped or screw-fixed, sealant injection possible.

### Profile Optimization

- Identical self-clipping grooves in- and outside.
- Identical extension plates and architraves for the 70TH & 32TH ranges.

### Fitting

- 3-dimensional hinge adjustment.
- Choice of extension plates accepting any insulation thickness.
- Four installation possibilities: IW (internal wall insulation), EWI (external wall insulation), Monobrick, or wood structure.

# Opening Frames 70TH & 32TH



1 - 3 Espace® 70TH fixed and openable windows - 2 Combination with Comète® 70TH door

# High Performance



4 Espace® O.C. 70TH Windows - 5 Comète® 70TH door with panic hardware  
6 Comète® 70TH glazed door - 7 Espace® 70TH tilt-&-turn window





# Installux Aluminium

Designer of Aluminium Systems since 1963

## Tuned to Trends

By creating still more accomplished and coherent ranges, we aim to meet the professionals' and their Clients' expectations. By anticipating the requirements of the present standards, we were among the first actors of the sector to integrate the notion of energy-efficiency into all our systems, while still improving the complementarity and the look of our products.

## At the Service of the Residential and Non-residential Building Professionals

As an independent French company with over 1,500 professional Clients in the building finishing's sector, we have built our reputation upon the quality of our service and technical capability.

We work in close collaboration with them in order to design products perfectly suitable to their needs and to the evolution of the residential and non-residential market. Our systems are designed as a coherent whole in order to facilitate and enhance the quality of their work, and to offer the end customer comfort, style, and safety.

## A Solution for each Requirement

Our mission: always to be able to meet the constraints, the demands, and the ideas of our Clients and of the end customers.

Because each construction is unique, we have developed products capable to fit into any requirement: individual house or multiple dwelling, new building or renovation, architectural projects, etc. As a consequence each project can be approached with the same guarantee of performance and design.

Colour, accessories, finish, shapes: we offer you the best that can be made of aluminium. So you can expand your projects to the limits of your imagination.

## Our Expertise

Our mastery of aluminium is based upon strict quality control. For instance, all our technical data are subjected to certified tests carried out by our own teams and by independent organisms. The powdercoating of our profiles conforms to the specifications of the Qualicoat/Qualimarine label, thus guaranteeing perfect adhesion of the coating and stability of the colours.

## Innovation, our Central Ambition

In order to keep breaking new ground in our core business, we always have put innovation at the centre of our approach.

All year round the teams of our R&D Department and Test Centre work on our products in order to improve their energy-efficiency, their look, and their fabrication and installation methods. This know-how has allowed us to participate in remarkable projects requiring the combination of efficiency with sophistication.

This expertise we share and develop with our Clients, which we frequently include in our technical committees to confirm the relevance of our choices.

As far as suppliers are concerned, we have always favoured local and innovating SMEs: dynamic enterprises eager to break new ground, with which we are able to develop the products and technologies of the future.

## The other Installux Building Ranges

