



**Access and evacuation
solutions for buildings.**



**ALUMINIUM
CONSTRUCTIONS
FOR YOUR SAFETY**



Your preferred vendor of custom aluminium safety constructions.

- 1 **Engineering**
- 2 **Production**
- 3 **Installation**

We offer solutions for 5 distinct applications: emergency egress for public and private buildings, industry access at heights, building access, facade access and industrial structures for the interior and exterior.

Stairs

Special ladders

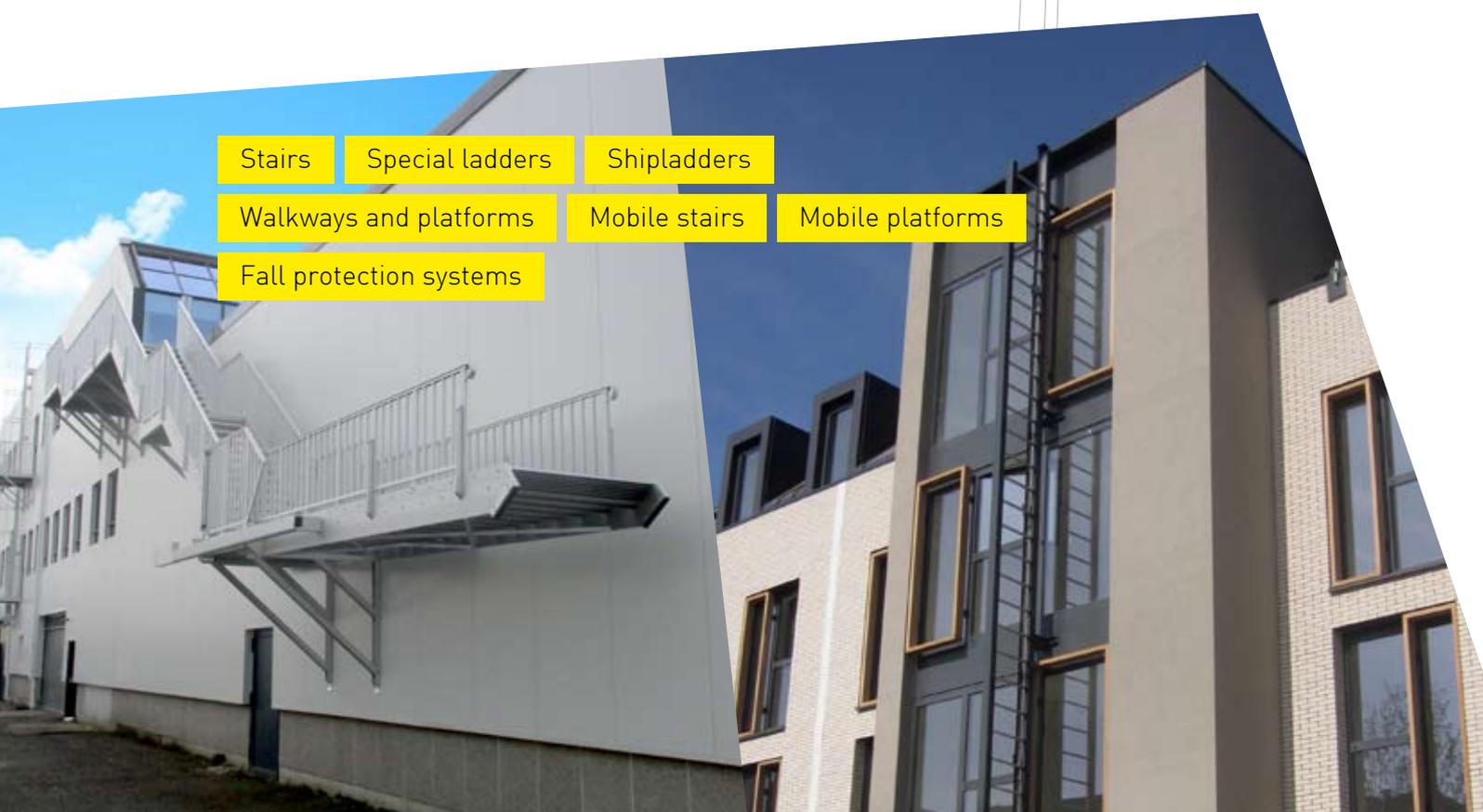
Shipladders

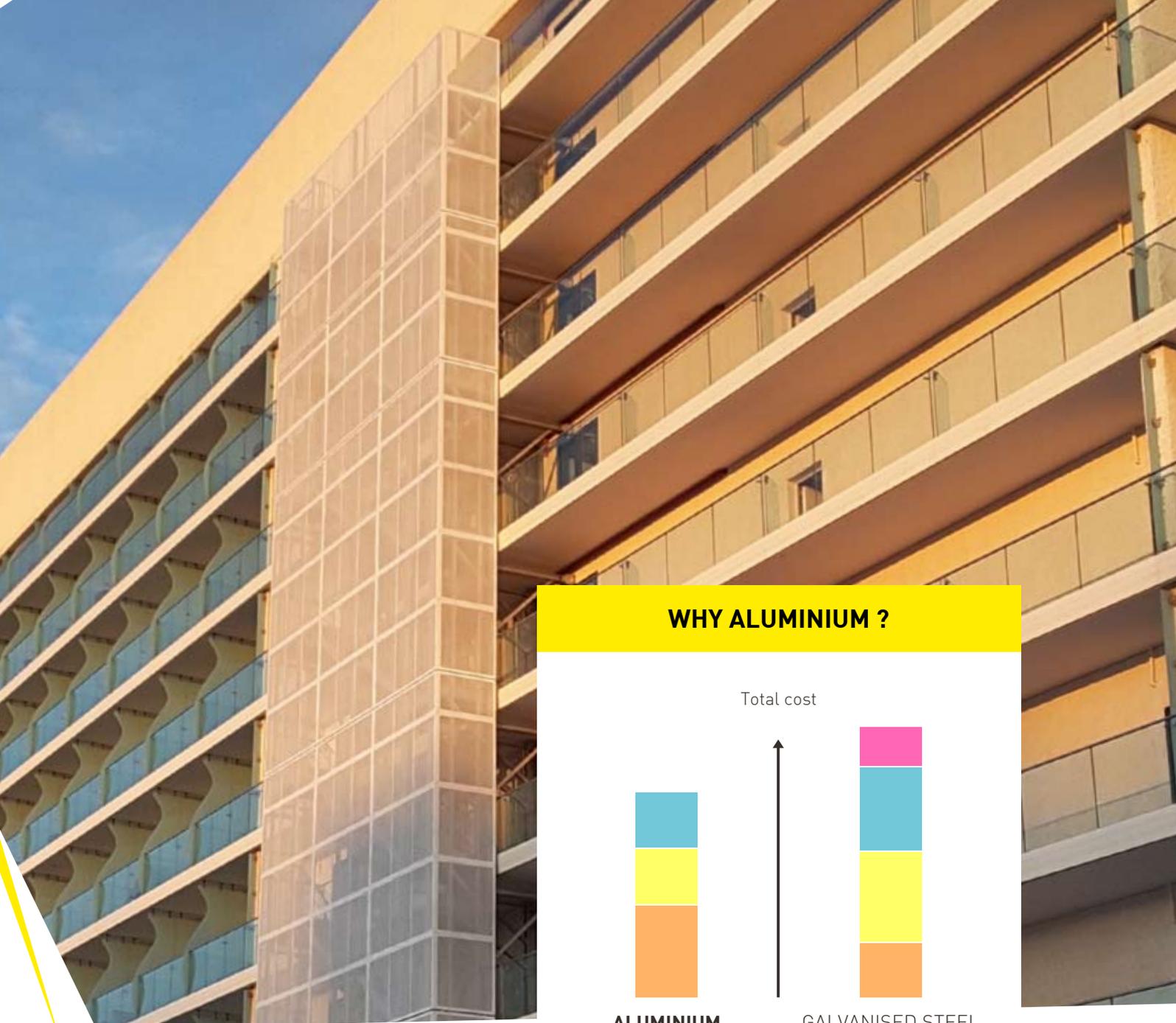
Walkways and platforms

Mobile stairs

Mobile platforms

Fall protection systems





WHY ALUMINIUM ?



Maintenance

- + No maintenance required;
- + Long lifespan of over 30 years;
- + No harmful oxidation: anodization protects the material even in relatively aggressive or marine environments.

Installation

- + Modular, meccano-style assembly;
- + No welding. Easy materials processing on site, if necessary;
- + Well adapted for transport. Approximately 3 x lighter than a similar construction in steel;
- + The maximum amount of assembly having being done in the workshop already, installation on site is fast and organized.

Production

- + Materials handling easy due to low weight. Easy tooling and metalworking;
- + Constructions based on modular and normalized profiles;
- + Possibility of creative custom solutions (counterbalanced stairs, suspended stairs,...).

Raw materials



100% INFINITE
RECYCLABILITY



FIRE ESCAPE AND EMERGENCY EVACUATION

The choice of an evacuation solution is influenced mainly by 2 determining factors:

1. REGULATORY FRAMEWORK

There is a **legislative framework** that partly depends on your geographic location:

- Basic regulations are laid down at the national level, in particular the Royal Decree for the basic standards for fire prevention;
- Regions and communities translate in their decrees and decisions the basic rules depending on the situation: hotels, rest homes, hospitals, nurseries, etc.;
- Cities and municipalities also impose additional and specific rules in their prevention plans.

In addition, there are also **standards** for safety and prevention and standards for structures to follow:

- NBN S21-204: Fire protection in school buildings;
- Eurocodes for buildings and structures, in particular the series EN 1990 (basis of structural design), EN 1991 (actions and loads) and EN 1999 (aluminium structures);
- EN ISO 14122: Safety of machinery - Permanent means of access to machines.

In many cases, the Codex on well-being at work must also be taken into account.

Not all rules are consistent with each other. It is therefore always advisable to work according to the best practices and with the experts in the field.

JOMY project engineers are very well informed and are your preferred source on the subject.

2. BEST PRACTICES

Although not of a priority above the legislations of local authorities, best practices help to evaluate and steer towards the ideal solution to put in place in the given situation. For information and in a very summarized way, they essentially consist of :

The number of persons to evacuate

- 1 person per 10m² for buildings that are not publicly accessible.
- 1 person per 3m² for buildings that are publicly accessible.
- More specific numbers apply when a fixed interior design foresees another occupation.

Number of evacuation roads

- At least two independent, non-intersecting escape routes.
- For compartments with 500 or more persons:
 - 500 - 999 persons: 3 evacuation roads;
 - 1000 - 1999 persons: 4 evacuation roads;
 - 2000 - 2999 persons: 5 evacuation roads;
 - Etc.
- There are cases where a single fire escape route will suffice:
 - Buildings with a height under 10m with fewer than 100 persons;
 - Buildings between 10 to 25m with less than 50 persons and that are accessible by the fire services's ladders placed on the street side.

Even in these cases, the fire department (and good prevention) often requires a second escape route.

STAIRS : the ideal solution

- The most secured means.
- Highest flow.
- Great accessibility.
- Can also be used for access.

LADDERS : the alternative solution

- If there is not enough available space for a stair.
- If specific aesthetics and planning / board requirements exist.
- If the layout of the building requires such a solution.
- For costs reasons.

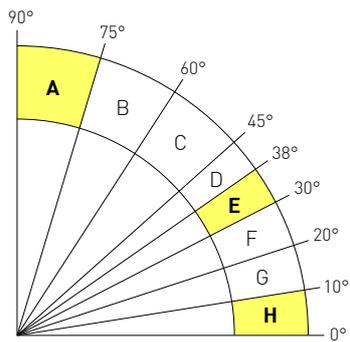




BUILDING ACCESS



CHOICE OF FIXED MEANS



- A Ladder → recommended**
- B Ship ladder
- C Ship ladder
- D Stairs
- E Stairs → recommended**
- F Stairs
- G Walkway platform with anti-slip system
- H Walkway platform → recommended**

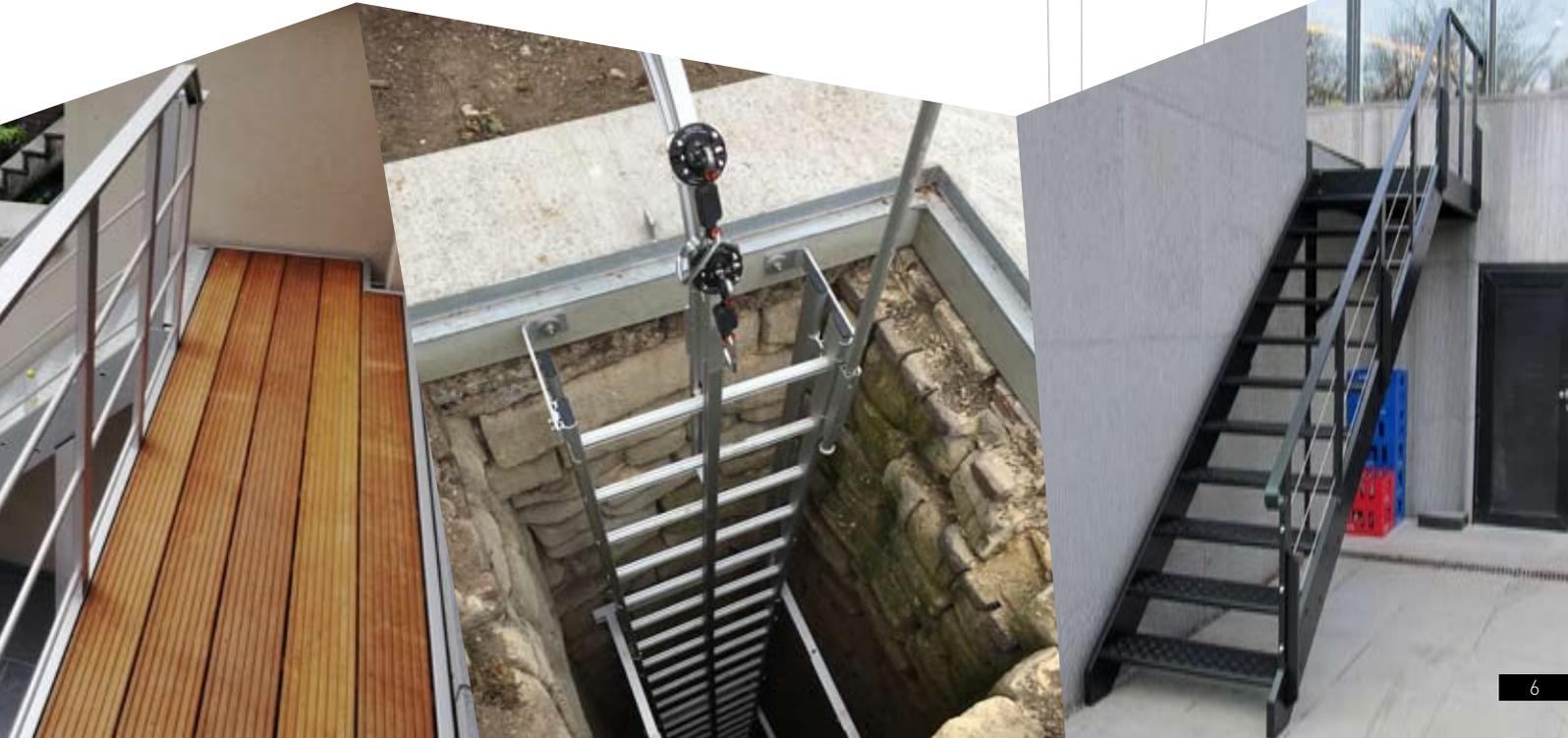
The right choice really depends on eliminating the risks that exist in the given situation: slipping, tripping, high physical effort and protection from external moving or falling parts.





WHY CHOOSE JOMY SOLUTIONS ?

- **Lightweight and strong aluminium constructions.**
- Almost **no maintenance** required.
- **Exceptional lifespan.**
- An **optional lifeline** can be added to all of our installations.
- **8 engineers are at your service** in our engineering office in order to help you find the best solution, whatever the building type and situation.





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