

A CALL TO PROTECT HOMES, BUSINESSES & LIVES

Protect what matters.

02 / SCALE OF INTERVENTION

Real installation scenarios that current solutions largely fail to serve.



RESIDENTIAL GARAGE

4–6 m wide

up to 1.2 m high



LOGISTICS LOADING DOCK

5 m wide

up to 1.5 m high



UNDERGROUND PARKING

6 m + wide

up to 1.6 m high

EAD-aligned specification.

Ref. EAD 180002-00-0706 — flood protection products

■ EAD BASELINE
■ INNOVATION TARGET

■ OPENING WIDTH

1 m to 6 m design range. Largest / worst-case configuration to be tested.

■ WATER HEAD

Up to 1.6 m maximum designated water depth.

■ HYDROSTATIC PRESSURE

Approx. 16 kPa at 1.6 m water head.

■ HORIZONTAL LOAD

Approx. 13 kN per metre of width at 1.6 m head.

■ DYNAMIC FLOOD CONDITIONS

EAD Annex B dynamic testing — wave exposure & 2.0 m/s current. Stretch target: 3.0 m/s flash-flood.

■ IMPACT / DEBRIS

EAD impact methodology. Opening barriers: 600 J at weakest point & connection area.

■ LEAKAGE TARGET

≤ 4–5 L/h/m per EAD Annex A/B — per protected opening or barrier length as applicable.

■ MANUAL DEPLOYMENT

≤ 5 min by one adult, without power tools.

■ AUTOMATED RESPONSE

Sensor-triggered, real-time deployment, where applicable.

■ OPERATIONAL RELIABILITY

Moving parts cycle-tested — min. 500 cycles or until failure, per EAD.

B · C · D / ADAPTABILITY · ENVIRONMENT · COST

Meet the building where it is. Survive the environment. Hit the price.

B · ADAPTABILITY

SUBSTRATE

Concrete · masonry · typical building materials

CONFIGURATION

Permanent / Deployable / Hybrid

INSTALL

Retrofit · no structural mods

SCALE

Modular across widths

C · ENVIRONMENT

TEMPERATURE

-10°C → +50°C

UV EXPOSURE

Sustained outdoor

SALTWATER

Coastal applications

LIFECYCLE

Reusable after event

D · COST

≥ €150 /m²

MATERIALS + MANUFACTURING
SUGGESTED TARGET, NOT A CEILING

CALL TO INNOVATORS

Let's get started.

CHALLENGE BY

Alumil SA

Building excellence every day

CONTACT

Γεώργιος Τσίπος

info@antiplimmirika.gr

Αντιπλημμυρικά Ελλάδα

IFS AWARDS

2026