

*Enclosures & walls*



# Alara-Lukagro Enclosures & walls

The different enclosures and walls of Alara-Lukagro have been developed with an eye for detail based on a large number of design requirements. The products are highly suitable for application in, for example, offshore, the shipping industry, energy, oil and gas industry, installation construction and many industrial sectors.

The following acoustic values, properties and models apply to all enclosures and walls of Alara-Lukagro including machine enclosures, (test) cabins, operating spaces, containers and acoustic screen walls.

## Insulation- and absorption values

Panel thickness 50 mm	$R_w$	( $C, C_{tr}$ )	$\alpha_w$
AL-O / 50S	30	(-1, -3)	0.8
AL-O / 50	38	(-2, -6)	0.75
AL-O / 50A	41	(-1, -6)	0.75

Panel thickness 100 mm	$R_w$	( $C, C_{tr}$ )	$\alpha_w$
AL-O / 100S	35	(-1, -4)	0.9
AL-O / 100B	41	(-1, -5)	0.9
AL-O / 100D	43	(-1, -5)	0.9
AL-O / 100E	45	(-2, -7)	0.9

Panel thickness 80 mm	$R_w$	( $C, C_{tr}$ )	$\alpha_w$
AL-O / 80S	34	(-2, -4)	0.85
AL-O / 80	38	(-2, -6)	0.8
AL-O / 80A	41	(-1, -6)	0.8

Panel thickness >100 mm	$R_w$	( $C, C_{tr}$ )	$\alpha_w$
AL-O / 120S	34	(-2, -4)	0.95
AL-O / 180A	58	(-2, -8)	0.8

The maximum potential sound reduction is determined per project, based on your requirements and specifications. Alara-Lukagro guarantees that the required sound reduction is achieved for these projects.

## Properties

- Flexibility with regard to design, dimensions, doors, windows and ventilation assemblies.
- Self-supporting (modular) system for rapid installation and disassembly.
- Serial production possible because of computer-controlled machines.
- Aesthetic added value due to identical appearance of various insulation values.
- Many designs possible, low maintenance and durable.



## Models

- Standardized and custom-made models are available.
- Sound insulation up to  $R_w$  58 dB tested in accordance with NEN-EN-ISO 140-3.
- Sound absorption up to  $\alpha_w$  0.95 tested in accordance with ISO 11654.
- Fire resistance >30 or >60 minutes tested in accordance with EN 1634-1 or NEN 6069.
- Manufactured in thermal or electrolytic galvanized steel, corrosion resistant steel or (seawater resistant) aluminium.
- Manufactured with revolving doors, overhead doors and/or sliding doors, detachable roof-/wall parts and windows.
- Suitable for ATEX-environment.
- Weather resistant designs for outdoor application.
- Turn-key, in combination with steel construction, hoisting equipment, fall protection, liquid tight floor, vibration insulation, (filtered) ventilation systems, fire valves, exhaust fumes system, lighting, air-conditioning, heating, operating panels, detection systems, cable entries etc.
- Approved and certified, among others by Lloyd's or DNV.
- In-house blasting and preservation is available (powder coating and wet paint systems) if so required provided with photo print or lettering.

Ask for our datasheets for detailed technical information or download these on [www.alara-lukagro.com](http://www.alara-lukagro.com).

## Enclosures

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Alara-Lukagro enclosures are highly suitable for a silent positioning of for instance motors, generators, transformers, turbines, gear boxes, pump sets, compressors, blowers, cooling machines and production lines.

Ask for our reference sheets about projects with specific applications.



## Cabins and operating spaces

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Alara-Lukagro cabins and operating spaces offer a safe, ergonomic and, most importantly, a silent place to work. Application is possible in engine rooms as an operating space, in test spaces as control cabins, in production halls as an office, as personnel enclosure for machinery operators, on (offshore) cranes as operator cabins or on offshore drilling platforms as area of accommodation.

Ask for our reference sheets about projects with specific applications.

## Containers

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Alara-Lukagro provides you with the design and production of new containers – if so required approved by Lloyd's or DNV – and also adapts your existing containers.

Ask for our reference sheets about projects with specific applications, for instance sound insulating containers for (emergency) power supplies, generator sets, compressors and powerpacks.

## Acoustic screen walls

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Alara-Lukagro acoustic screen walls can be absorbent on one or both sides. Design is possible in bus shelter shape, as corner arrangement, (semi)-permanent positioning or as a mobile screen. Design and calculations (for example for wind resistance) are made in accordance with the currently valid rules and regulations.

Ask for our reference sheets about projects with specific applications, for instance acoustic screen walls for shielding of production lines, transformers, pumps, cooling towers, compressors, condenser units or an acoustic screen wall as partition wall.



Subject to change without notice.



# Quality guaranteed

## Custom-made and specials

Whether you are searching for standard or custom-made enclosures, with over 40 years of experience, we are able to produce the most varied and exceptional projects for you.

## Guarantee and quality

Alara-Lukagro designs, manufactures and preserves the products in-house. This way, the entire process can be controlled and we are able to offer you a high degree of quality, user-friendliness and a good price-quality ratio.

Alara-Lukagro is ISO 9001 and ISO 14001 certified. As a result, the durability of all materials that are used can be guaranteed. All product-specific properties are secured due to extensive testing in laboratories in accordance with international standards (for instance NEN, EN and ISO) and are supported by certificates. Alara-Lukagro also guarantees the required sound reduction for every project.

## Service and assembly

Alara-Lukagro offers total solutions, ranging from advice and design to production and assembly. Delivery and assembly is possible around the world. Our installers are VCA (Safety Checklist Contractors) and NOGEPa certified.





## WORLDWIDE DELIVERY AND IMPLEMENTATION

- Enclosures & walls ▪
- Doors ▪
- Silencers ▪
- Louvers ▪
- Vibration isolators ▪
- Room acoustics ▪
- Blasting & preservation ▪