

ARMONICA - END OF LIFE OPTIONS

DISMOUNTING, REBUILD & RECYCLE INSTRUCTIONS

INTRODUCTION

Armonica wall system is designed to enable spatial flexibility while maintaining full demountability, allowing the system to be relocated, reconfigured or adapted throughout its service life.

The end of life (EoL) documentation aims to ensure that materials and components can be managed responsibly once they reach the end of their service life.

By providing clear guidance on dismounting, reuse, and recycling, this document supports sustainable building practices, reduces waste, and promotes circular economy principles.

PURPOSE, SCOPE, STANDARDS & REFERENCES

This document supports architects, facility managers, and installers in managing the end-of-life phase of the Armonica Wall System, covering dismounting, reuse, and recycling options for Armonica products.

Although not yet covered by third-party environmental declarations, Armonica is engineered according to dry-assembly and reversibility principles, enabling responsible material handling and alignment with circular design strategies.

MAIN COMPONENTS & MATERIALS

COMPONENT	MAIN MATERIAL	RECYCLING CODE	ESTIMATED RECYCLABILITY
ALUMINUM PROFILES	EXTRUDED ALUMINUM	ALU 22	≥95%
GLASS PANELS	FLOAT GLASS	GL 70	≥90%
WOOD PANELS	MDF / VENEERED WOOD	WOOD 50	70-80%
HARDWARE & ACCESSORIES	STEEL / ALUMINUM	FE 40 / ALU 22	≥90%
SEAL & GASKETS	PVC / RUBBER	07 (OTHER)	50-60%
SCREWS & FIXINGS	STEEL	FE(40)	≥90%

DISMOUNTING INSTRUCTIONS

Armonica is designed as a demountable sliding wall system, assembled through mechanical fastening without the use of structural adhesives. Its modular construction allows components to be removed, replaced or transferred to new installations without damaging adjacent elements or compromising system integrity.

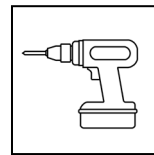
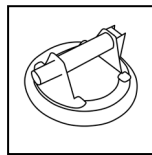
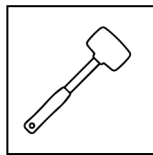
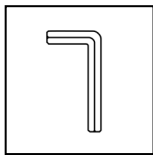
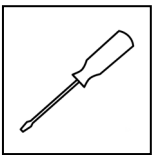
The system operates on a reverse installation logic, where profiles, glass modules and door units can be dismantled in sequence. Depending on the configuration, Armonica may integrate sliding doors or pivoting door units, each requiring a dedicated disassembly sequence.

Before proceeding with dismantling, it is essential to identify the correct partition configuration, in order to follow the appropriate removal steps for glass panels, aluminum profiles and hardware components.

All fastening elements - including screws, brackets and connectors - should be retained for potential reuse, reinstallation or refurbishment.

The following instructions require the use of standard mechanical tools, typically including:

- Torx screwdriver
- Allen key
- Rubber mallet
- Suction cups for glass
- Power screwdriver
- Personal safety equipment (gloves, eyewear)

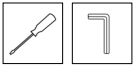


DISMOUNTING INSTRUCTIONS - DISASSEMBLY SEQUENCE FOR SLIDING PANELS

The following disassembly sequence applies to Armonica sliding compositions.

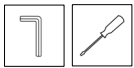
STEP 1 - REMOVE DOOR HARDWARE

- Detach handles or pulls (if included)



STEP 2 - DISENGAGE THE SOFT-STOP MECHANISM

- Disconnect the sliding carriage on the door from the soft-stop mechanism.



STEP 3 - RELEASE AND REMOVE EACH SLIDING LEAF

- Support the leaf with suction cups.
- Slightly lift the panel and disengage the hooks from the upper rail.
- Remove the leaf and store it to avoid edge damage.



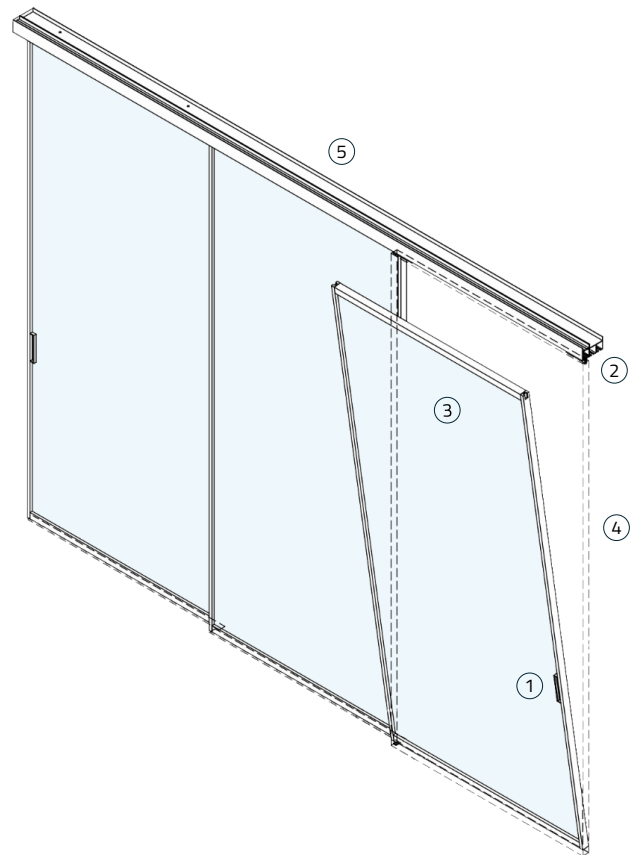
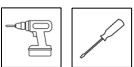
STEP 4 - REMOVE FIXED SIDE JAMBS

- If the configuration includes side jambs, unscrew the vertical profiles and remove them.



STEP 5 - REMOVE THE RECESSED CEILING TRACK

- Unscrew the aluminum rail from the soffit and collect carriages, sliding units and brackets.
- Recover all screws and metal fittings for potential reuse.



REUSE OPTIONS

Armonica is a relocatable system, that can be dismantled and reinstalled in new environments such as offices, retail, or residential spaces without compromising acoustic or aesthetic performance.

Partial or total reuse of glass panels, profiles, and accessories is possible when the elements are undamaged, and the new installation maintains the same dimensions for glass panels and other components.

Adotta provides disassembly manuals and material information to facilitate EoL practices.

ARMONICA MODULES ARE REMOUNTABLE IN DIFFERENT SITES

GLASS AND ALUMINUM PROFILES ARE FULLY REUSABLE IF UNDAMAGED

PARTIAL REUSE: INDIVIDUAL PARTS CAN BE STORED FOR MAINTENANCE OR REPLACEMENTS

ADOTTA PROVIDE TECHNICAL SUPPORT FOR REINSTALLATIONS

RECYCLING OPTIONS

When reuse is not feasible, Armonica materials can follow established recycling streams.

ALUMINUM PROFILES

Fully recyclable, with recovery rates of 95–100% in standard aluminum recycling plants.

Recycling aluminum significantly reduces CO₂ emissions compared to primary production.

GLASS PANELS

Recyclable through float glass facilities, provided they are clean and free of contaminants (adhesives or coatings).

MDF & LAMINATES PANELS

Can undergo mechanical recycling into secondary boards or be sent for energy recovery.

GASKETS & PLASTICS

Limited recyclability at specialized pvc plants, treated through thermal recovery

ONLY FOR NON-REUSABLE OR NON-RECYCLABLE COMPONENTS:

DISPOSAL MUST TAKE PLACE AT AUTHORIZED FACILITIES IN COMPLIANCE WITH APPLICABLE REGULATIONS

CERTIFICATIONS & GREEN BUILDING CREDITS

Armonica is not currently covered by third-party environmental declarations such as EPD or HPD; however, its dry-assembly construction and material transparency allow potential contribution to international green building certification systems.

LEED v4 / v4.1 – MATERIALS & RESOURCES (MR)

MRc1 – Building Life-Cycle Impact Reduction: Demountable system enabling reuse and relocation

MRc5 – Construction & Demolition Waste Management: Easy separation and recovery of material fractions

BREEAM - MATERIALS & WASTE

Mat 01 – Life Cycle Principles: Modular construction supports durability and adaptability

Wst 01 – Construction Waste Management: Dry installation reduces demolition waste and landfill impact

WELL

Design for Disassembly: Reversible system aligned with circular design concepts

Light & Visual Comfort: Glazed panels support transparency and daylight transmission

ENVIRONMENTAL DOCUMENTATION

EPD – Environmental Product Declaration: Currently under development

ISO 14021 – Recycled Content Declaration: Not yet available

HPD – Health Product Declaration: Planned for future material health disclosure