ADOTTA

METAFORA - END OF LIFE OPTIONS

DISMOUNTING, REBUILD & RECYCLE INSTRUCTIONS

INTRODUCTION

Metafora wall system is designed for flexibility, longevity, and adaptability.

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 Metafora Wall System, covering dismounting, reuse, and recycling options for Metafora products.

Metafora is documented through verified environmental standards, including EN 15804 (EPD), ISO 14040 (LCA) and ISO 14021 (recycled content), and it is engineered according to the principles of ISO 20887 for Design for Disassembly.

MAIN COMPONENTS & MATERIALS

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

DISMOUNTING INSTRUCTIONS

Metafora is engineered as a modular and fully demountable wall system, designed to allow controlled disassembly, reconfiguration and material recovery. All primary connections are based on mechanical fasteners and reversible joints. Double-sided adhesive tape may be used at the base and vertical profiles to ensure alignment and airtight contact with adjacent surfaces; however, it is non-structural and can be removed after releasing the mechanical fixings.

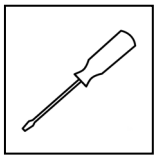
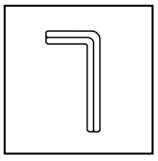
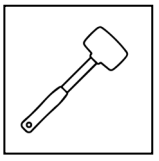
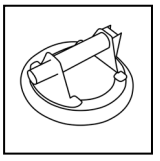
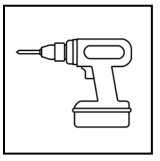
The system follows a reverse installation logic, where each component can be removed in sequence without compromising the integrity of surrounding modules. Depending on the configuration, Metafora may include hinged or sliding door units, glass modules and aluminum profiles, each requiring a dedicated dismantling approach.

Before proceeding with disassembly, it is essential to identify the module type and door configuration, in order to follow the appropriate removal sequence for glass units, structural profiles and accessories.

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

Dismantling operations require standard mechanical tools, typically including:

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

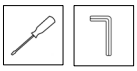







DISMOUNTING INSTRUCTIONS - DISASSEMBLY SEQUENCE FOR SWING DOOR

The following disassembly sequence applies to Metafora partitions equipped with a swing door.

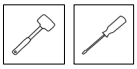
STEP 1 - REMOVE HARDWARE FROM THE DOOR

- Detach handles or pulls, closing mechanisms and accessory fittings.



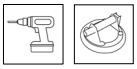
STEP 2 - REMOVE FINISHING PROFILES FROM ONE SIDE

- Remove top, bottom and vertical finishing profiles on one side and access to hinges fasteners.



STEP 3 - REMOVE THE DOOR

- Unscrew the hinges from the frame and remove the door.



STEP 4 - EXTRACT FIXED GLASS PANELS

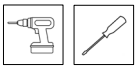
- Lift and remove glass panels with suction devices.
- Store glass panels, protecting the edges from damage.

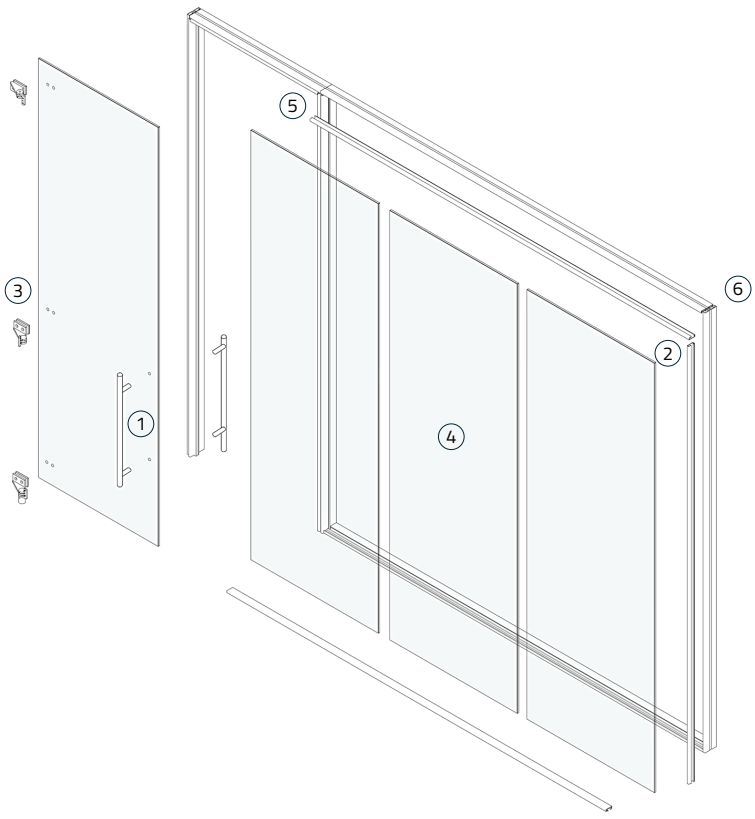
STEP 5 - REMOVE DOOR JAMB AND FINISHING PROFILES

- Unscrew the floor and ceiling fasteners to remove the door jamb and the horizontal transom.
- Remove the finishing profiles on the other side.

STEP 6 - DISASSEMBLE ALUMINIUM BASE PROFILES

- Unscrew all mechanical fixings and remove the aluminum base profiles.
- Collect brackets, screws, gaskets and metal fittings for reuse or replacement.

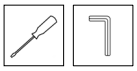




DISMOUNTING INSTRUCTIONS - DISASSEMBLY SEQUENCE FOR SLIDING DOOR

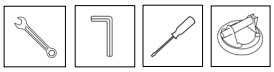
The following disassembly sequence applies to Metafora partitions equipped with a sliding door using Terno sliding tracks with integrated soft-stop mechanism.

STEP 1 - REMOVE HARDWARE FROM THE DOOR
- Detach handles or pulls, closing mechanisms and accessory fittings.

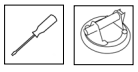


STEP 2 - REMOVE COVER PROFILES
- Remove frontal cover profiles to expose the upper sliding rail and sliding mechanism.

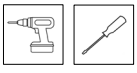
STEP 3 – DISENGAGE SOFT-STOP MECHANISM AND REMOVE THE SLIDING DOOR
- Disconnect the sliding carriage on the door from the soft-stop mechanism.
- Lift and remove the door panel from the sliding rail.

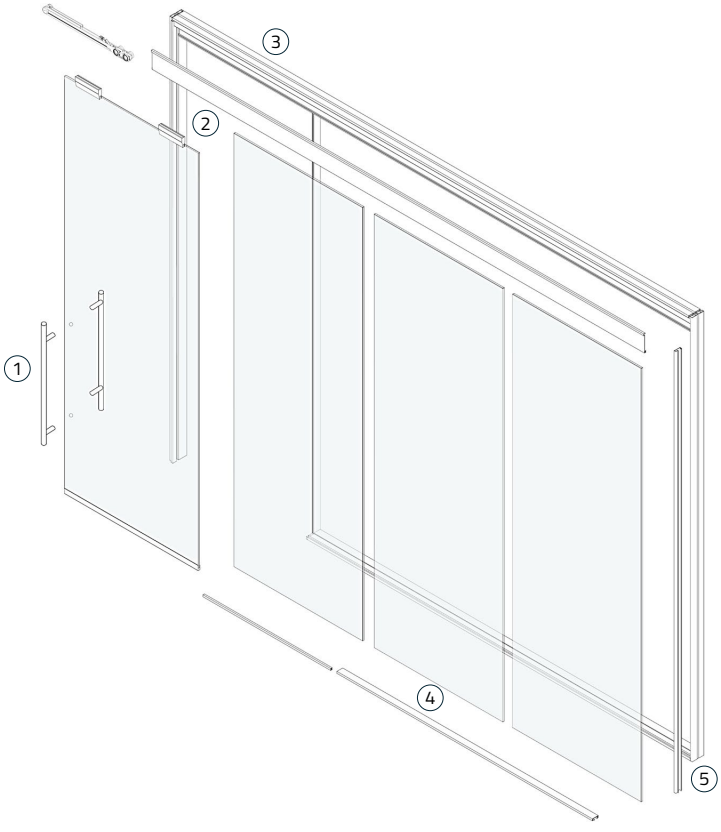


STEP 4 – REMOVE FINISHING PROFILES AND FIXED GLASS PANELS
- Remove finishing profiles on the side opposite the sliding track.
- Lift and remove glass panels with suction devices.
- Store glass panels, protecting the edges from damage.



STEP 5 - DISASSEMBLE ALUMINIUM BASE PROFILES
- Unscrew all mechanical fixings and remove the aluminum base profiles.
- Collect brackets, screws, gaskets and metal fittings for reuse or replacement.





REUSE OPTIONS

Metafora 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 doors, glass panels, and other components.

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

METAFORA 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, Metafora 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 CO_2 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

Metafora has been assessed through a full Life Cycle Assessment (LCA) and is documented by a third-party verified Environmental Product Declaration (EPD) in accordance with EN 15804 and ISO 14040/14044. Adotta has also issued a Recycled Material Content Statement (ISO 14021), confirming the quantified recycled content of the system. These certifications enable contributions to international green building rating systems such as LEED v4, BREEAM and WELL.

QUANTIFIED RECYCLABILITY AND RECYCLED CONTENT
Total recyclable mass: ≥90% (aluminum, glass, steel as main fractions)
Pre-consumer recycled content: 0.021%
Post-consumer recycled content: 3.42%

LEED v4 / v4.1 – MATERIALS & RESOURCES (MR)
MRc1 – Building Life-Cycle Impact Reduction: Modular and demountable design extends product life
MRc2 – Environmental Product Declarations: Verified type III EPD, compliant with EN 15804 and ISO 14025
MRc3 – Sourcing of Raw Materials: Recycled content and material traceability
MRc5 – Construction & Demolition Waste Management: Easy separation and recovery of material fractions

BREEAM - MATERIALS & WASTE
Mat 01 – Life Cycle Impacts: LCA data available through EPD
Mat 03 – Responsible Sourcing: Verified documentation of material origin
Wst 01 – Construction Waste Management: Modular design construction reduces demolition waste

WELL
Certification not yet completed, but the system is aligned with WELL principles through:
Design for Disassembly: supports circularity
Material Transparency: EPD and recycling statement available
Indoor Comfort: glass partitions support daylighting and visibility

ENVIRONMENTAL DOCUMENTATION
EPD – EN 15804 / ISO 14025: Third-party verified documentation providing LCA impact data
ISO 14021 – Recycled Content Declaration: Quantified pre- and post-consumer recycled content
HPD – Health Product Declaration: Under development to support future material transparency