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ETLAB

| KNOWLEDGE | DEVELOPMENT | SUCCESS |



SUSTAINABILITY & EUROPA *“Looking into the **Future**”*

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Europa Profil Aluminium S.A.

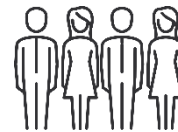
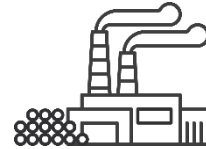
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- A. Let's meet Europa Profil Aluminium S.A.
- B. Sustainability in a nutshell
- C. Sustainability & Europa_ Facts & Figures



A. Let's meet Europa Profil Aluminium



Facts

49 years
in aluminium industry

With over **348** manpower

Presence in more
than **20** countries

Certified innovative products
and manufacturing processes

ISO 9001
ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification



International Presence



Central Europe
Balkans
USA & Canada
Australia
Africa



A. Let's meet Europa Profil Aluminium



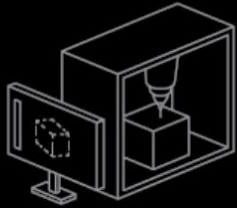
Our Premises | Central Greece



170.000 square meters land
35.000 square meters facilities

A. Let's meet Europa Profil Aluminium

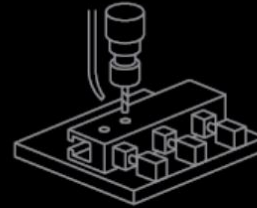
One-stop shop



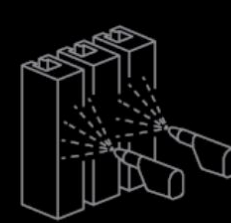
DESIGN – 3D PRINTING



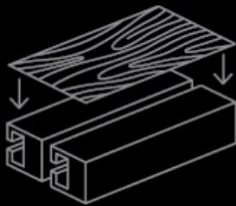
EXTRUSION



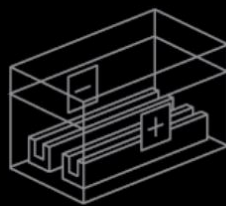
MACHINING



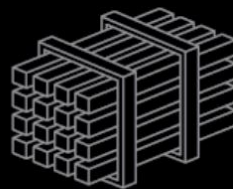
POWDER COATING



WOOD EFFECT



ANODISING



PACKAGING-ASSEMBLY



CUSTOMER SERVICE

A. Let's meet Europa Profil Aluminium

at home

Doors & Windows
Energy efficient houses



at the office

Facades
Windows
Partition Walls



in tech

Transportation parts
Robotic compartments



B. Sustainability in a nutshell



B. Sustainability in a nutshell

Sustainability = Fulfilling the needs of current generations without compromising the needs of future generations, while ensuring a balance between:



✓ Economic growth & governance



✓ Environmental care



✓ Social well-being

B. Sustainability in a nutshell



How sustainability can be applied to an
Aluminium Extrusion Industry?

B. Sustainability in a nutshell

Sustainability & Aluminium Extrusion Industry



Aluminium scrap recycling



Profitable enterprise



Workplace health and safety

C. Sustainability & Europa_Facts & Figures



C. Sustainability & Europa_Facts & Figures

1. PHOTOVOLTAIC PARKS / NET METERING

	Capacity (MW)	CO ₂ (tn/ year)	Location
Factory's rooftop	1,5	1.950	Viotia, Greece
Parks	4,1	5.330	Attica & Viotia, Greece



Proceeding to new investments with the aim to cover our energy needs.



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1. PHOTOVOLTAIC PARKS / NET METERING

	Capacity (MW)	Energy saving	Location	Project status
PV Project 1	2,39	22%	Viotia, Greece	Licensing in progress
PV Project 2	4,7	78%	Viotia, Greece	Licensing in progress



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2. UPGRADE OF MANUFACTURING FACILITIES: NEW ALUMINIUM EXTRUSION PRESS

- ❑ Increase manufacturing production capacity -> *Increasing our productivity by 20%*
- ❑ Reduce significantly the environmental impact of manufacturing process leveraging cutting edge technologies -> *Reducing scrap by 15%*



Manufacturing Process Automation



Digital Transformation



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2. UPGRADE OF MANUFACTURING FACILITIES: COMPRESSORS REPLACEMENT

	2017	2023 (new type)
Number of compressors	8	8
Consumption (kWh/year)	45.000	38.000



Saving: 7.000 kWh / year



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3. USE OF RECYCLED RAW MATERIALS

Aim to increase the use of recycled raw materials like:

- ❑ Recycled aluminium
- ❑ Recycled polyamides



Reduce our carbon emissions of our products



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4. UPGRADE OF BUILDING FACILITIES: ENERGY UPGRADE

- ❑ Installation of new thermal break energy efficient aluminium doors & windows
(polyamide 24mm, $U_g=1.1 \text{ W/m}^2\text{K}$, area: 260m^2)
- ❑ Installation of external wall insulation
(thickness of insulation board 8cm, area: 920m^2)
- ❑ Shading system
(area 1.980m^2)



Energy saving up to 35% &
reduction of our Carbon Footprint



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4. UPGRADE OF BUILDING FACILITIES: REPLACEMENT OF LIGHT BULBS WITH LED



	2020	2022 (LED)
Number of bulbs	730	832
Consumption (kWh/year)	720.000	212.000



Saving: 140.000 € / year



ROI 2020: 24 months

ROI 2022: 6 months

Project in progress: Replacement of light bulbs at the offices



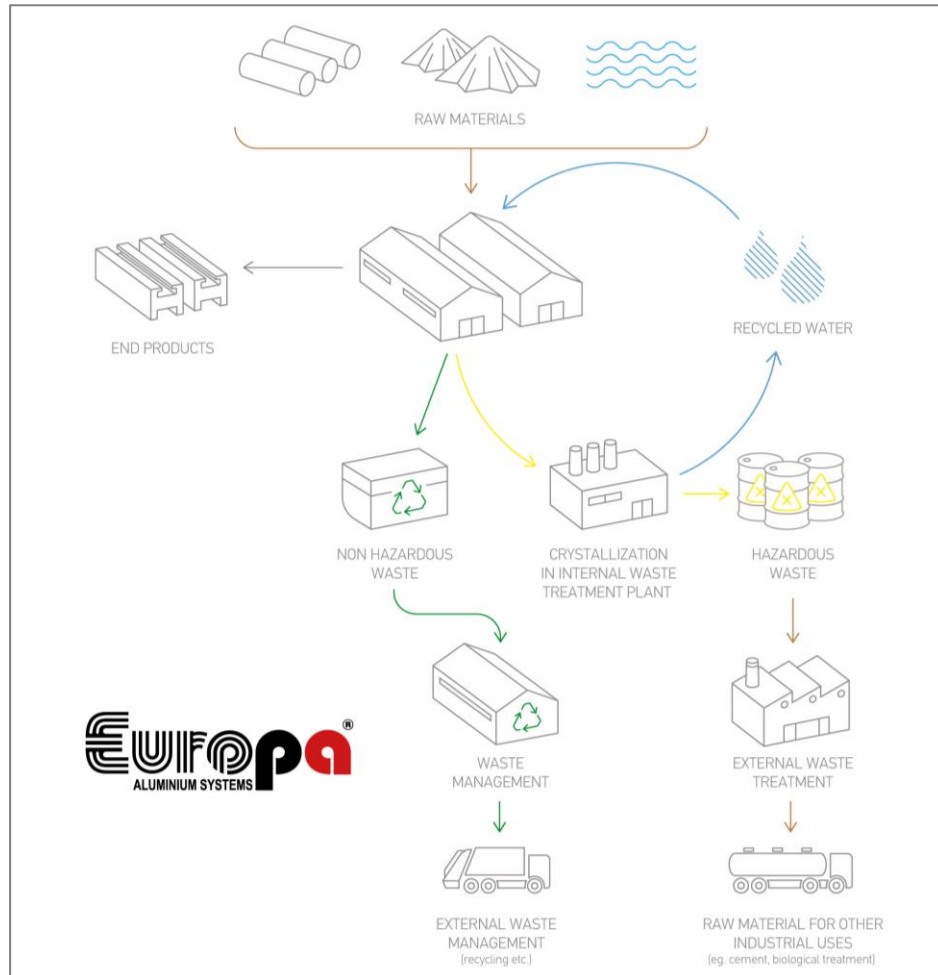
Saving: 4.600 € / year

ROI 2022: 5 months



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5. CLEAN PRODUCTION METHOD



Zero liquid waste production for disposal through a Clean Production System, based on :

- On-site Prevention
- Re-utilization
- Recycling
- Recovery,

according to Environment Management System ISO 14001.

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6. PRODUCT TRANSPARENCY: WHAT IS AN EPD

- ❑ EPD -> Environmental Product Declaration
- ❑ Reporting of quantitative environmental data about products calculating specific indicators based on International Standards
- ❑ Demonstration of manufacturer's commitment to sustainability
- ❑ Incorporates data of the manufacturing process emphasizing:
 - Use of recycled raw materials
 - Recycling 100% of the waste generated in manufacturing process (scrap)
 - Low energy consumption (operation of owned photovoltaic parks)



Verify the sustainability of products and manufacturing process



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6. PRODUCT TRANSPARENCY: BENEFITS OF EPD

- ❑ Offers the **engineer** transparent information about product environmental performances from a lifecycle perspective.
- ❑ Reflects the **manufacturing process** through which the product was produced with the aim to reduce energy consumption.
- ❑ Contributes to rating of various green building certification systems (LEED, BREEAM, DGNB), accelerating construction of **low carbon buildings**.
- ❑ Raises awareness of stakeholders confronting **climate change**.
- ❑ Meets the **end user** sustainability requirements.



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6. PRODUCT TRANSPARENCY: EPD & EUROPA

4 EPDs for the products (aluminium profile):

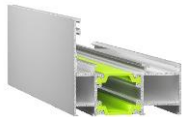
Mill finished



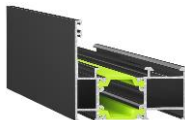
Coated



Thermal break mill finished



Thermal break coated



C. Sustainability & Europa_Facts & Figures

6. PRODUCT TRANSPARENCY: WHAT IS AN HPD

- ❑ HPD -> Health Product Declaration
- ❑ Standardized report used to disclose the various building materials and substances, as well as their possible human health effects and hazards.
- ❑ Contributes to rating of Green Building Certification Systems (LEED, WELL).
- ❑ Promotes openness in sustainable constructions.



Health Product
Declaration
Collaborative

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6. PRODUCT TRANSPARENCY: HPD & EUROPA

4 HPDs for the products
(aluminium profile):

Mill finished



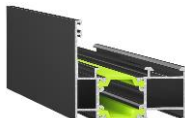
Coated



Thermal break mill finished



Thermal break coated



Mill Finished Aluminium Profile
by Europa Profil Aluminium S.A.

Health Product Declaration v2.3
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 420373776384
CLASSIFICATION: 05 14 00 Structural Aluminum Framing
PRODUCT DESCRIPTION: Mill finished aluminium profile HPD covers one aluminium extrusion product group manufactured by Europa Profil Aluminium S.A. in the form of rod, bar and tube with standard and custom-made profiles.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY			
Inventory Reporting	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
Format	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="checkbox"/> Nested Materials Method	<input checked="" type="radio"/> 1,000 ppm	<input type="checkbox"/> Partially Completed	<i>Provided weight and role.</i>
<input checked="" type="checkbox"/> Basic Method	<input type="checkbox"/> Per GHS SDS	<input type="checkbox"/> Not Completed	Screened <input type="radio"/> Yes <input checked="" type="radio"/> No
Threshold Disclosed Per	<input type="checkbox"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input type="checkbox"/> Material		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
<input checked="" type="checkbox"/> Product			<i>Provided name and CAS RN or other identifier.</i>

Coated Aluminium Profile
by Europa Profil Aluminium S.A.

Health Product Declaration v2.3
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 395108372480
CLASSIFICATION: 05 14 00 Structural Aluminum Framing
PRODUCT DESCRIPTION: Coated aluminium profile HPD covers one aluminium extrusion product group manufactured by Europa Profil Aluminium S.A. in the form of rod, bar and tube with standard and custom-made profiles.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY			
Inventory Reporting	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
Format	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="checkbox"/> Nested Materials Method	<input checked="" type="radio"/> 1,000 ppm	<input type="checkbox"/> Partially Completed	<i>Provided weight and role.</i>
<input checked="" type="checkbox"/> Basic Method	<input type="checkbox"/> Per GHS SDS	<input type="checkbox"/> Not Completed	Screened <input type="radio"/> Yes <input checked="" type="radio"/> No
Threshold Disclosed Per	<input type="checkbox"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input type="checkbox"/> Material		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
<input checked="" type="checkbox"/> Product			<i>Provided name and CAS RN or other identifier.</i>

Thermal Break Mill Finished Aluminium Profile
by Europa Profil Aluminium S.A.

Health Product Declaration v2.3
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 334002318336
CLASSIFICATION: 05 14 00 Structural Aluminum Framing
PRODUCT DESCRIPTION: Thermal break mill finished aluminium profile HPD covers one aluminium extrusion product group manufactured by Europa Profil Aluminium S.A. in the form of rod, bar and tube with standard and custom-made profiles.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY			
Inventory Reporting	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
Format	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="checkbox"/> Nested Materials Method	<input checked="" type="radio"/> 1,000 ppm	<input type="checkbox"/> Partially Completed	<i>Provided weight and role.</i>
<input checked="" type="checkbox"/> Basic Method	<input type="checkbox"/> Per GHS SDS	<input type="checkbox"/> Not Completed	Screened <input type="radio"/> Yes <input checked="" type="radio"/> No
Threshold Disclosed Per	<input type="checkbox"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input type="checkbox"/> Material		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
<input checked="" type="checkbox"/> Product			<i>Provided name and CAS RN or other identifier.</i>

Thermal Break Coated Aluminium Profile
by Europa Profil Aluminium S.A.

Health Product Declaration v2.3
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 1430945792
CLASSIFICATION: 05 14 00 Structural Aluminum Framing
PRODUCT DESCRIPTION: Thermal break coated aluminium profile HPD covers one aluminium extrusion product group manufactured by Europa Profil Aluminium S.A. in the form of rod, bar and tube with standard and custom-made profiles.

Section 1: Summary Basic Method / Product Threshold

CONTENT INVENTORY			
Inventory Reporting	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
Format	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="checkbox"/> Nested Materials Method	<input checked="" type="radio"/> 1,000 ppm	<input type="checkbox"/> Partially Completed	<i>Provided weight and role.</i>
<input checked="" type="checkbox"/> Basic Method	<input type="checkbox"/> Per GHS SDS	<input type="checkbox"/> Not Completed	Screened <input type="radio"/> Yes <input checked="" type="radio"/> No
Threshold Disclosed Per	<input type="checkbox"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input type="checkbox"/> Material		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
<input checked="" type="checkbox"/> Product			<i>Provided name and CAS RN or other identifier.</i>



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7. FLEET VEHICLE REPLACEMENT

- ❑ Constant car fleet renewal with advanced diesel technology engines resulting in lower CO₂ emissions.
- ❑ Increased number of coaches used for workforce transportation with a view to reducing corporate carbon emissions.
- ❑ Car fleet renewal with electric & hybrid cars from 2024.



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8. SUSTAINABILITY REPORT (ESG)

- ❑ Disclosure of Environmental, Social and corporate Governance data (both qualitative and quantitative)
- ❑ It is useful for:
 - Better transparency, accountability and ethical integrity
 - Making sustainable company operations (cost-saving opportunities and an overall reduction in operational costs)
 - Mitigation of risks that affect Europa strengthening investor confidence (eg climate change, health and safety, human rights and diversity)



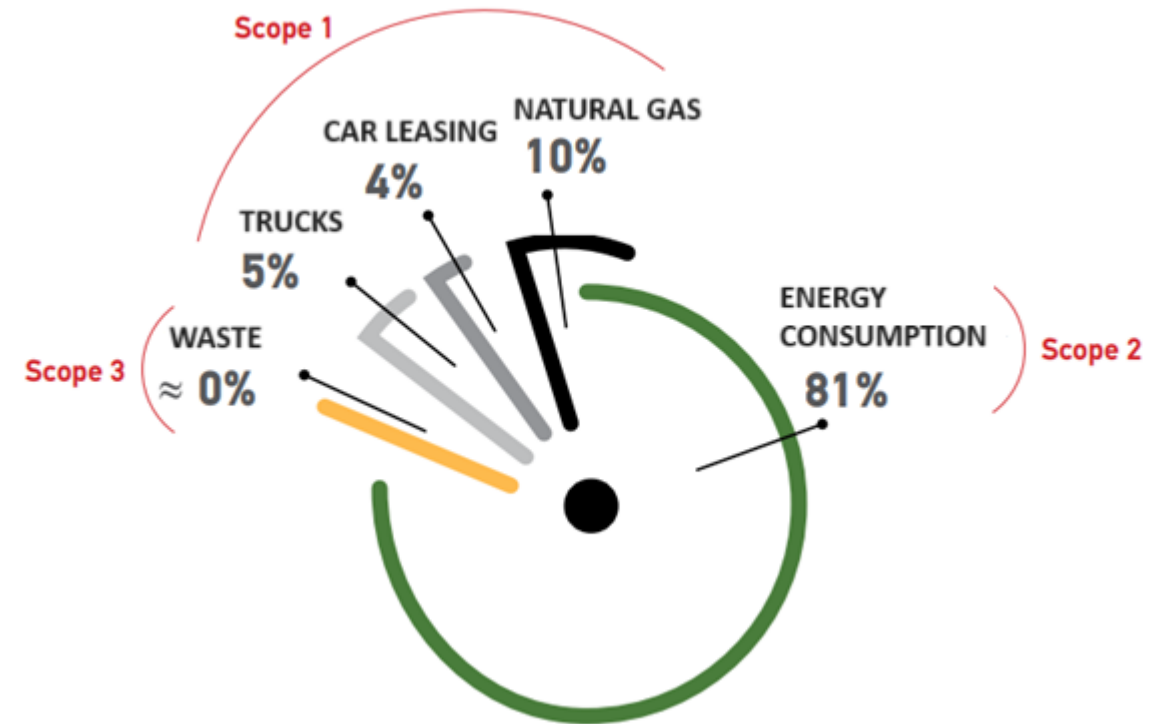
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9. CORPORATE CARBON FOOTPRINT

Detailed calculation and publishing of Corporate Carbon Footprint and specifically:

- ❑ Scope 1 -> Direct emissions
- ❑ Scope 2 -> Indirect emissions
- ❑ Scope 3 (partly calculated *) -> Other Indirect emissions

** In the next years we intend to cover bigger part of Scope 3 emissions.*



Europa's Carbon Footprint 2021

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10. “EUROPA CARES” PROGRAMME

Since 2019, within the framework of Corporate Social Responsibility, we have developed the “Europa Cares” Program:

- ❑ A complete strategic plan of EUROPA
- ❑ Embraces all the Sustainable Development Goals of the UN Agenda 2030 with actions at national and local level.



SUSTAINABLE DEVELOPMENT GOALS



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11. SUSTAINABLE CULTURE OF EUROPA

- ❑ Training new employees and providing continuing education for existing employees regarding corporate environmental policy and Health and Safety.
- ❑ Conducting afforestation.
- ❑ Installation of special recycling spots for paper, light bulbs, batteries and plastic bottle caps at offices and manufacturing facilities.
- ❑ Taking measures against changing energy behavior of our workforce like reducing paper waste through avoiding printing.



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12. MEMBERSHIPS: EUROPEAN ALUMINIUM ASSOCIATION

Participation in European Aluminium’s groups
(Sustainability Committee & Building Sustainability Experts)



- Have access to in-depth expertise about sustainability best practices.
- Drive the industry & sustainability agenda.



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12. MEMBERSHIPS: SUSTAINABLE BUILDING COUNCIL (SBC) GREECE

Participation in Sustainable Building Council (SBC) Greece
(Consultation & Advocacy group)



- ❑ Keeping updated about contemporary and upcoming legislative framework and policies.
- ❑ Positively influencing the Greek / European legislative framework and policies for sustainability in the built environment.





ANY QUESTIONS ?

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THE LAB



THANK YOU

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