

ART.: Duna 02 – 4231

Rev. 01_2019-04-05

The LEED data sheet gives insight in Arper's environmental certifications and the contribution to the LEED CI credits.

Arper commitment

Arper's commitment to environmental protection is part of the company philosophy.

Arper's goal is to provide high quality, safe, durable and sustainable products. For this reason, Arper is actively working on its product stewardship programme. This programme comprises actions on ecodesign (material and waste minimisation, disassembly of components, recycling of materials), product take back at the end of life (in Australia) and environmental communication. Since 2006, Arper is ISO 14001 certified.

Environmental Product Certifications

2016: **GREENGUARD** certified

LEED Contribution

Potential specific Furniture and Seating credits: Recycling content, Low-emitting materials

LEED Credits: LEED CI, LEED Core and Shell, LEED EB, LEED for school, LEED NC



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Leed Credit Analysis Assessment

LEED-CI Credit	Potential Points	Contribution Arper	Description LEED-CI Credits
MR 4: Recycled content	1-2	Sum recycled content: 15 %, corresponding with a potential credit of 1 point (sum > 10%).	<i>Weighted average of recycled content. Criteria: sum of postconsumer recycled content plus 1/2 of the preconsumer content > 10%: 1 point, sum > 20%: 2points.</i>
MR 5: Regional materials	1-2	Location of the manufacturer: Monastier di Treviso (Italy) Distance between project site and manufacturer: depending on location project site.	<i>Option 1 (1 point): use a minimum of 20% of materials and products that are manufactured regionally within a radius of 500 miles. Option 2 (2 points): use a minimum of 20% of materials and products extracted, harvested or recovered, as well as manufactured, within 500 miles of the project.</i>
MR 6: Rapidly renewable materials	1	Depends from the choice of the covering (e.g.: fabric made in cotton is a rapidly renewable material)	<i>Use rapidly renewable materials and products for 5% of the total value of all materials and products used in the project (>5%, 1 point). Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle.</i>
MR 7: Certified wood	1	Not Applicable	<i>When using new wood-based products and materials, a minimum use of 50% should be FSC-certified, 1 point.</i>
IEQ: 4.5 Low-emitting materials	1	GREENGUARD Indoor Air Quality Certified and GREENGUARD for Children & Schools corresponding with a potential credit of 1 point.	<i>If furniture and seating are GREENGUARD Indoor Air Quality Certified, 1 point.</i>

CI: Commercial Interior
 MR: Materials and Resources
 IEQ: Indoor Environmental Quality

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General product information

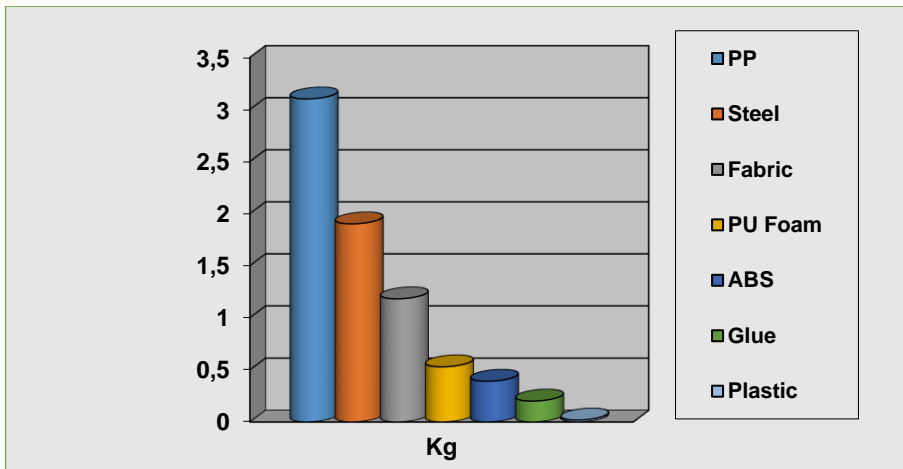
Manufacturer: Arper SpA

Description: Chair on chromed steel 4-leg base. The shell is in polypropylene is total upholstered.

Total weight: 7,3 Kg

Key environmental indicators:

Percentage of recycled materials 15%
 Percentage of recyclable materials 25%



Components	Weight (kg)	Post-consumer		Pre-consumer	
		%	Weight (kg)	%	Weight (kg)
PP	3,1				
Steel	1,9	60*	1,14		
Fabric	1,18				
PU Foam	0,528				
ABS	0,39				
Glue	0,2				
Plastic	0,018				
Total	7,316	15	1,14		

* References: Information derived from Secondary data (Official statistics and/or other research)

Further information Duna 02 Collection:

Selection of raw materials: the environment plays a fundamental role in the selection of raw materials. Arper is committed to the research and development of products through eco-design, favouring recyclable and recycled materials (as far as possible in compliance with the product safety requirements).

Production: frames lacquered are powder coated (absence of VOC = no emissions, absence of toxicity, limited waste, low energy consumption). Shell featured in the collection comes in a wide range of colours, in order to best optimize time and consumption, and to limit waste, the production of shells is planned according to lots, divided by colour. Should any polyethylene shell fail to be compliant in its finish, it will be upholstered (pre-consumer recycling).

Assembly: the product is shipped disassembled. Given that the parts can be easily disassembled, some of them can be replaced to give new life to the product (disassembly instructions available).

Packaging: shells and the frames are packed in groups of 4, so that little packaging material is used. The packing cardboard is produced from >80% recycled material and is 100% recyclable.

Shipping: as the products are packed in groups of 4 and disassembled, the load sizes are greatly reduced, and so is the number of shipping.

Use: the accurate selection of raw materials and the product essential design make maintenance easy. The structural tests which our products periodically undergo in authorized laboratories, in compliance with European regulations, ensure their long-lasting life.

End of use: frames can be easily disassembled by simply using hand tools in order to favour, at the end of use, the separation of the materials for disposal.

See our Environmental section for Accredited Product Certifications
GREENGUARD USA International EPD® System Sweden **Good Environmental Choice** Australia

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