

# Surfer, Optic


COR29960



The Optic Surfer is a novel sensory activity: a place for visual amazement, wonder and logical thinking which attract children for a break. There are three different moiré effects and two dichroic panels. The moiré panels fascinate with their patterns that look different from the first glance and to the focused look at them. Children report that they get curious

about the reason for the patterns behaving differently, and not least they debate why not everyone can see the patterns. This makes for negotiation, explaining and helping others out, a great training in cooperation and team- work that supports these skills in school. The dichroic panels intrigue children with their colour changes, highly depending on the

surrounding lights. The rainbow colours throw colourful shadows on the ground and light up friends faces with their colour-changing reflections. The optic panels of the Surfer make children wonder, think and seek explanations for the phenomena they register.

Item no. COR299601-0406	
General Product Information	
Dimensions LxWxH	414x162x251 cm
Age group	4 - 12
Play capacity (users)	6
Colour options	



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## Moiré optic panels

**Physical:** sitting, hanging and leaning on the rope suspended panels train balance and cross-coordination. **Social-Emotional:** discussing the patterns and reasoning with others supports negotiating and listening skills, training tolerance and empathy. **Cognitive:** wondering about, understanding and explaining the reasons for the pattern occurrence support logical thinking skills.

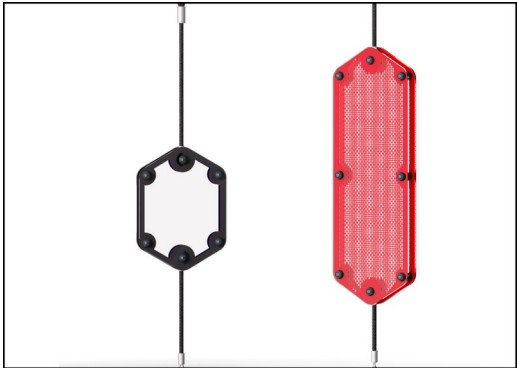


## Dichroic panels

**Physical:** hanging and leaning on the rope-suspended panels train muscles, balance and cross-coordination. **Social-Emotional:** twisting the panels to create colorful shadows encourage turn-taking and cooperation skills. **Cognitive:** wondering about, understanding and explaining the reasons for the color occurrence support logical thinking skills.

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Turnable optic panels of two 7mm thick polycarbonate plates with a distance of 40mm. The inside graphic print consist of an inner image layer and outer transparent protection layer. Both PC panel and the water-based lacquer are UV stabilized to prevent fading of the print.



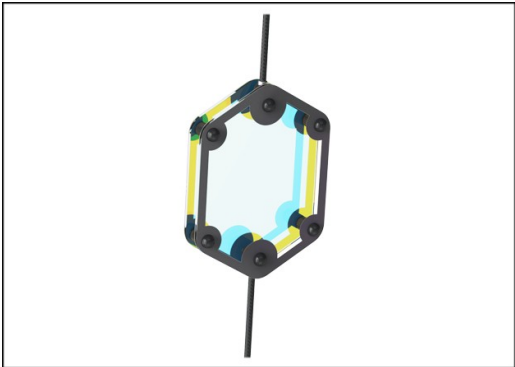
The steel surfaces are hot dip galvanized inside and outside with lead free zinc. The galvanization has excellent corrosion resistance in outside environments and requires low maintenance.



Corocord aluminium clamps are used as connectors between steel posts and rope. Two aluminium castings are bolted together. The height of the clamps is thus variable.



Corocord ropes of UV-stabilized PES rope strands with inner steel cable reinforcement. The polyester yarn is made from +95% post-consumer materials and is inductively melted onto each strand. PES has high strength with excellent resistance to abrasion and UV radiation. The ropes are connected by stainless steel S-Clamps which are pressed around the rope which results in a durable and vandalism



Please note: Dichroic film is a reflective material. As the sun moves around a product, there will be reflections to the environment around, which can be quite bright when the sun is at a certain angle. But as the sun moves, so will the reflections.

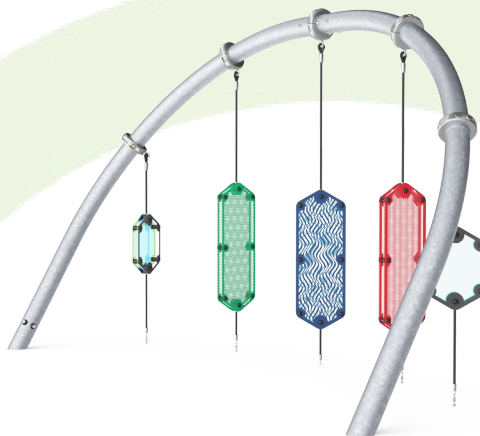
Item no. COR299601-0406	
Installation Information	
Max. fall height	0 cm
Safety surfacing area	0.0 m²
Total installation time	6.4
Excavation volume	2.28 m³
Concrete volume	1.27 m³
Footing depth (standard)	110 cm
Shipment weight	343 kg
Anchoring options	In-ground ✓
Warranty Information	
Hot dip galvanised steel	Lifetime
Painted toplayer	10 years
Ropes & nets	10 years
Spare parts guaranteed	10 years
Stainless steel components	Lifetime

Elevated activities 0	Accessible elevated activities	Accessible ground level activities	Accessible ground level play types
Present	0	1	1
Required	0	1	1



# Sustainability Data

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Cradle to Gate A1-A3	Total CO <sub>2</sub> emission	CO <sub>2</sub> e/kg	Recycled materials
	kg CO <sub>2</sub> e	kg CO <sub>2</sub> e/kg	%
COR299601-0406	1,014.40	3.29	43.10

The overall framework applied for these factors is the Environmental Product Declaration (EPD), which quantifies "environmental information on the life cycle of a product and enable comparisons between products fulfilling the same function" (ISO, 2006). This follows the structure and applies a Life-Cycle Assessment approach to the entire Product stage from raw material through manufacturing (A1-A3))

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## Verification of CO<sub>2</sub> calculation of: Corocord



Data version no. 2023-10-05

The CO<sub>2</sub> calculation and data are in compliance with the principles of a carbon footprint impact according to the GHG protocol (Greenhouse Gas Protocol), Scope 3, cradle to gate related to all individual components in the product category: "Corocord" represented by item no.: COR314011-1101.

(Scope 3 emissions include emission sources in the upstream and downstream value chain).

Date: 30. October 2023 | Valid until: 30. October 2025  
Verified by:

Julie Marie Vejsgaard Larsen, LCA & EPD Consultant

Verification based on report: Validation of CO<sub>2</sub> calculation of 9 categories of Kompan product line, version 1.0, prepared by: Bureau Veritas HSE, Denmark: Julie M. V. Larsen.

Publication date: 30. October 2023

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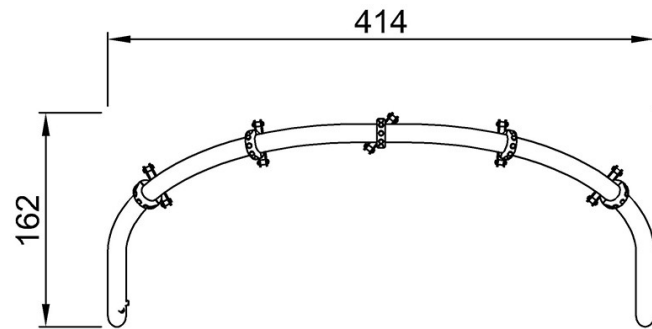


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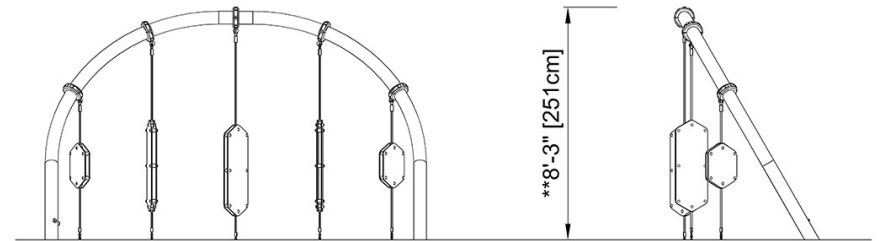
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\* Max fall height | \*\* Total height | \*\*\* Safety surfacing area

\* Max fall height | \*\* Total height



COR299601  
\*\*8'-3" / 251cm



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[Click to see TOP VIEW](#)

[Click to see SIDE VIEW](#)