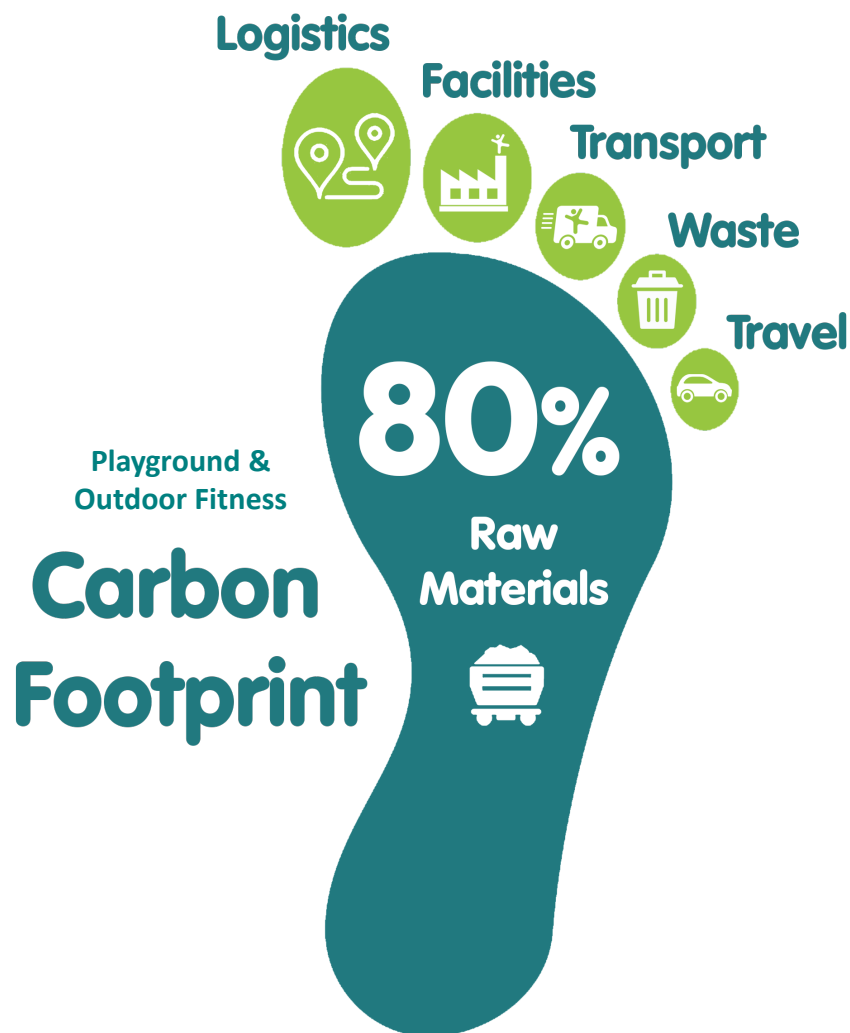




Aberavon Sustainability

Carbon Emissions in our Industry



For a Play & Outdoor Fitness companies like KOMPAN, more than **80% of carbon emissions come from the raw materials** we use. So, we have dedicated our efforts to lowering our carbon emissions by using more sustainable raw materials. The result we aim for - playgrounds that do not harm our planet. <https://www.kompan.com/en/gb/greener-playgrounds>

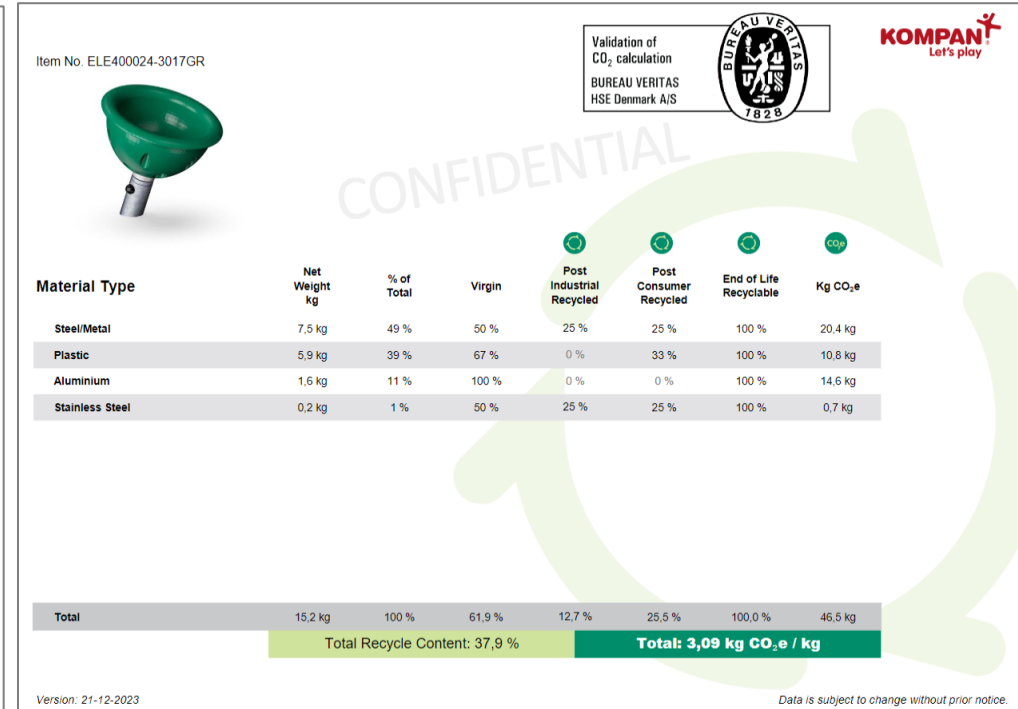
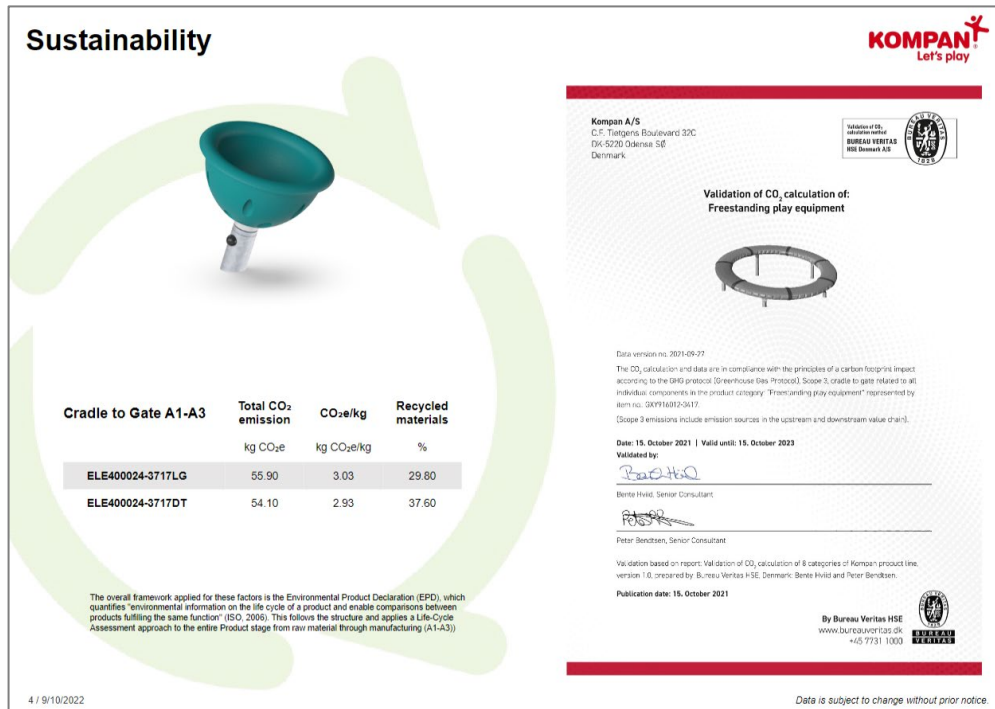
	For a greener future	
	Post consumer recycled material:	
	EcoCore™ Panels	+95%
	Hollow Plastic Parts	33%
	Hercules Rope Yarn	+95%
	Moulded Decks	75%
	TexMade™ Posts	+95%
Extruded aluminium made with low-carbon aluminium		
Steel parts following industrial standards		

As you can read in the article [Greener playgrounds: Where safety and durability meets safety](#), KOMPAN's development of greener material alternatives has resulted in several breakthroughs. Like TexMade™ playground posts made from textile waste, which can effectively replace the need for many steel and aluminum posts. Furthermore, new plastic alternatives have been developed using post-consumer waste like outworn fishing nets or plastic from household waste.

Rigorous testing has shown that the new materials are at least as durable and flexible as their predecessors. But how do the new materials fare when it comes to colours and shapes?

Colours and shapes play a crucial role in creating visually appealing and unique playgrounds. Strategic use of these design elements can influence children's play behaviour and preferences. Bright, saturated colours attract children aged two to five, while older kids are drawn to more natural and muted tones. Shapes also influence children's movements within playgrounds, leading them on exciting adventures and explorations. The good news is that our Designers have the same design freedom with the greener material alternatives.

Measured Emissions



All KOMPAN playground products come with a calculation of the product's carbon emission footprint. This way, you can easily see just how much carbon emission has been derived in the production of it. All our calculations are verified by a third party - that is your proof that our sustainability claims are truthful. Working with **Bureau Veritas** means KOMPAN can provide detailed, verified product data sheets for each item we manufacture. When Bureau Veritas verifies and certifies companies' data, they use international standards such as ISO standards, the GHG Protocol, and life cycle analysis (LCA).

Tomas Riegels-Jørgensen, from Bureau Veritas, highlights KOMPAN as one of the companies that have calculated and third-party verified greenhouse gas emissions on every product – all the way from cradle to gate:

- Many companies only make calculations on the company's greenhouse gas emissions from water, electricity and operation of vehicles and machinery, says Tomas Riegels-Jørgensen, and continues:
- KOMPAN also includes the emissions that come through suppliers. So, they include the entire value chain from cradle to gate, which refers to the carbon impact of the product from the moment it's produced to the moment it's ready for sale. It's complex and still unique to make calculations at such a detailed level, and it has required a lot of heavy lifting to achieve.

IT'S A JOURNEY!



Dorthe Thorup-Kjaerulff KOMPAN's Director, Go Green, oversees KOMPAN's sustainability strategy and is the frontrunner in leading KOMPAN towards a greener future.



Born Green products are made from nature's own building material, wood! Sourced from sustainable forestry, which come with very low carbon emission at the start of life.

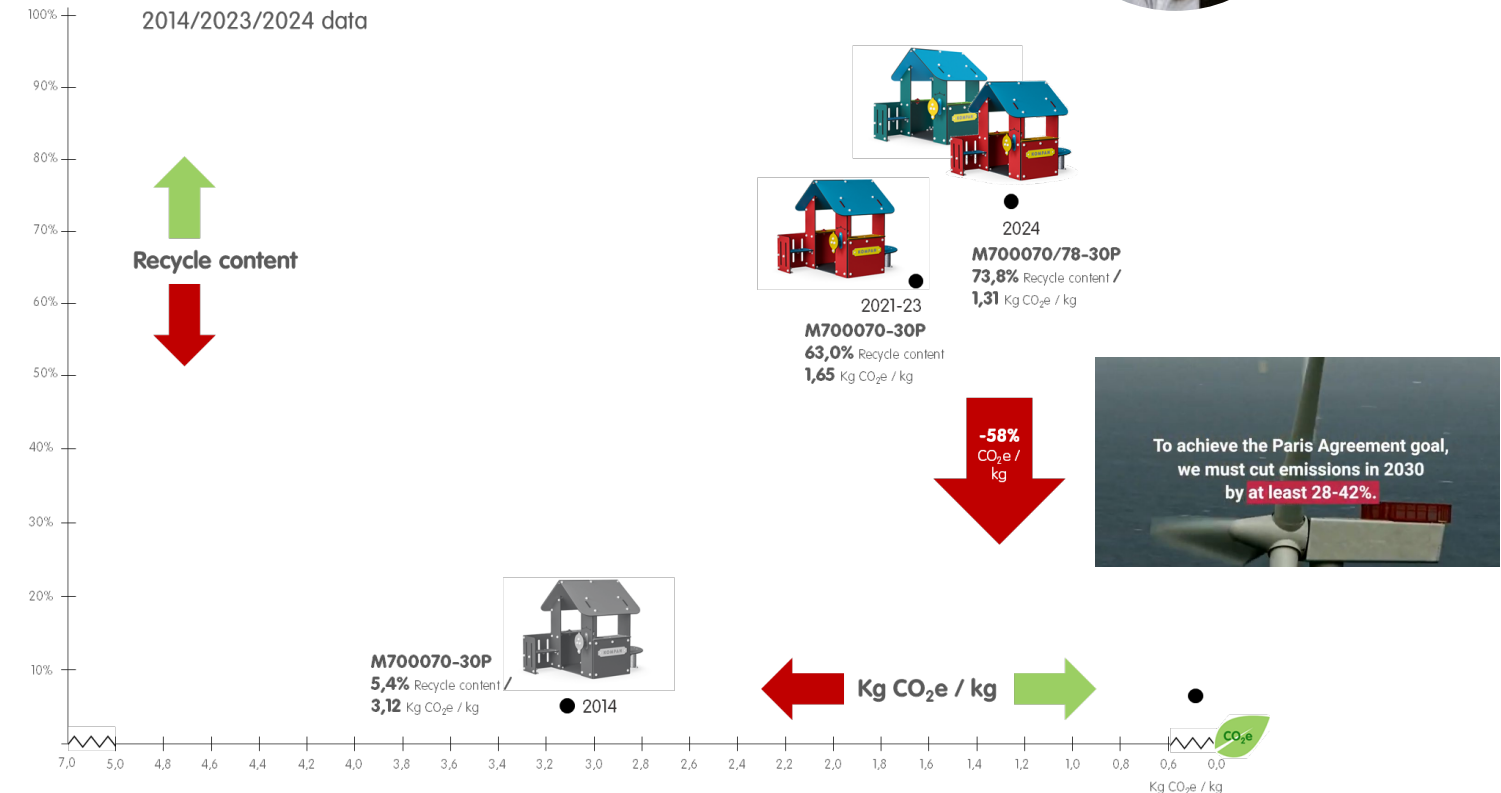


Made Green products are made of post-consumer recycled materials such as ocean waste (nets), used textiles, food packaging waste and used plastic bags.



Our Green Journey

2014/2023/2024 data



The above graph tracks through the increased recycled content of our play hut and reduced CO₂e 2014 to 2024. Overall CO₂e/kg has been reduced by 58%.

This is just one example; we've reduced all of our products CO₂e and will continue to do so.

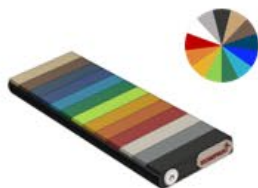
2024 BIG changes to our Raw Materials

You don't need to make a choice anymore to choose between our most sustainable product or a cheaper standard product with zero/less recycled material, thanks to consumer demand driving down recycled material pricing, we have been able to make that choice for you and from the beginning of this year all our products are made with the highest recycled content as standard, at no additional cost. Innovations in recycling techniques mean that we have been able to source robust recycled raw materials which we are able to add colour to, so we are now able to offer all our projects with recycled content and we have introduced new Hercules Rope made with +95% recycled yarn (unique to KOMPAN!). Your playground now contains more recycled material than ever before, and you can't spot the difference! Our quality and warranties remain market leading.

✦ **Recycled content** ↑
✦ **CO₂e** ↓



2024+



HDPE EcoCore™:

- From 80% Post consumer recycle to 95% in all colors
- 5% to be used on color pigment and UV protection



- Still available, in Ocean waste Post consumer recycled



BLOQX:

- From 0% to 75% Post consumer recycled waste in all colors



- Still available, in Ocean waste 75% Post consumer recycled waste



Hercules Rope yarn:

- From 0% to +95% post consumer recycled waste in the yarn
- In all colors



Roto molded:

- From 0% to 33% Post consumer recycled waste in all colors

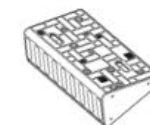


- Still available, in Ocean waste from 25% to 33% Post consumer recycled waste



Decks and steps:

- From HPL to 75% post consumer recycled waste
- More shapes and steps is added



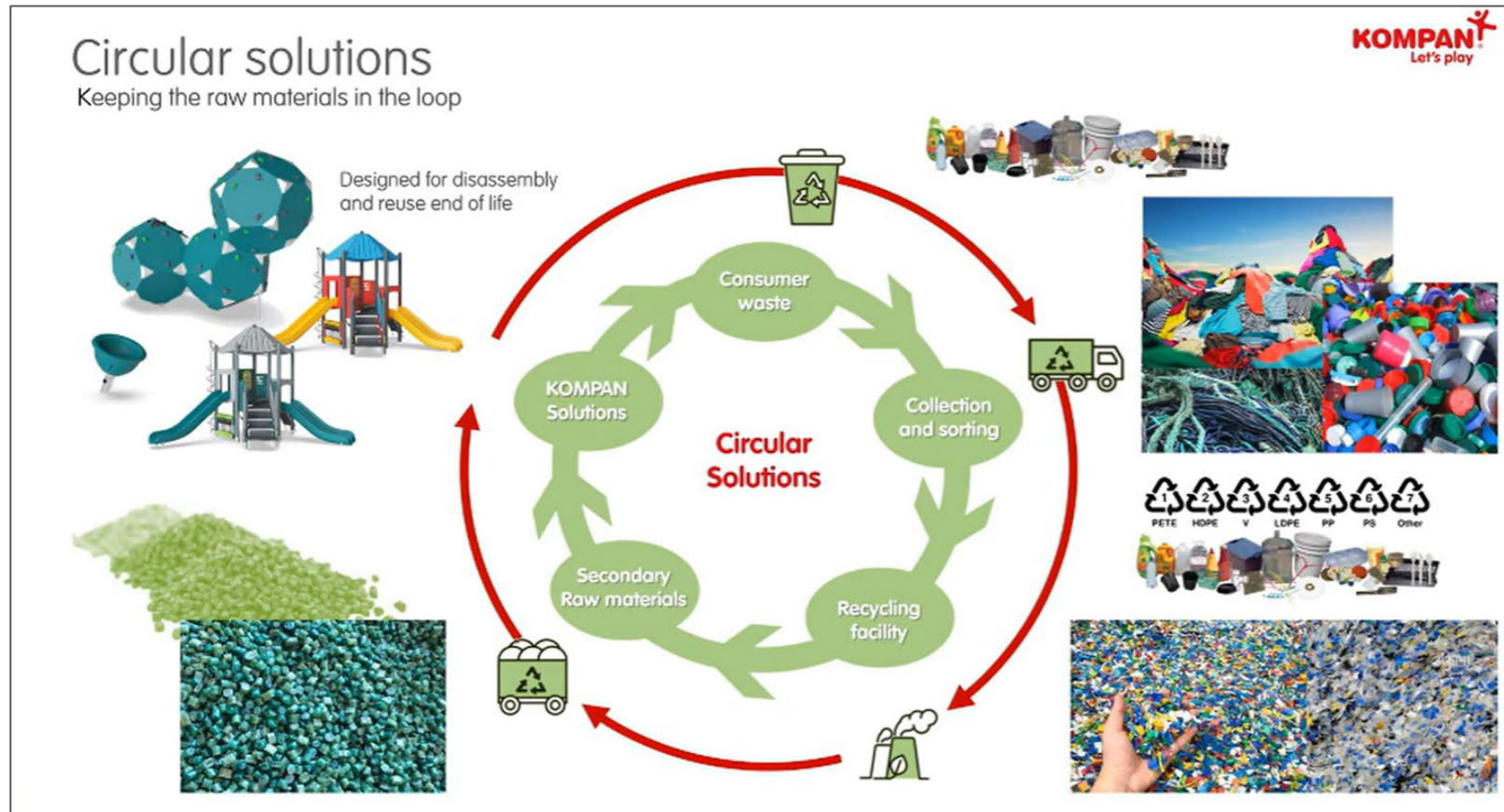
TexMade™:

- + 95% post consumer recycled textile and plastic waste
- More products to choose from – also swings

Circular Solutions

Remove and Recycle

KOMPAN are waste carrier licensed. Removed existing equipment will be recycled at the closest recycling facility, this is the most sustainable method. As waste is recycled new secondary raw material is produced and reenters the manufacturing cycle. KOMPAN have made it our mission to make playgrounds with a high recycled content thus reducing our CO₂e emissions. All KOMPAN equipment is designed for disassembly at end of life to reenter the material supply chain.



Manufacturing

All KOMPAN factories comply with ISO 14001 which is the principal management system standard that specifies the requirements for the formulation and maintenance of an Environmental Management System that helps to control our environmental aspects reduce impacts and ensure legal compliance.

KOMPAN has several green certificates:

- ✦ ISO 9001 Quality Management
- ✦ ISO14001 Environmental Management
- ✦ ISO50001 (Energy Management Systems, EnMS)
- ✦ OHAS18001 Health and Safety Management



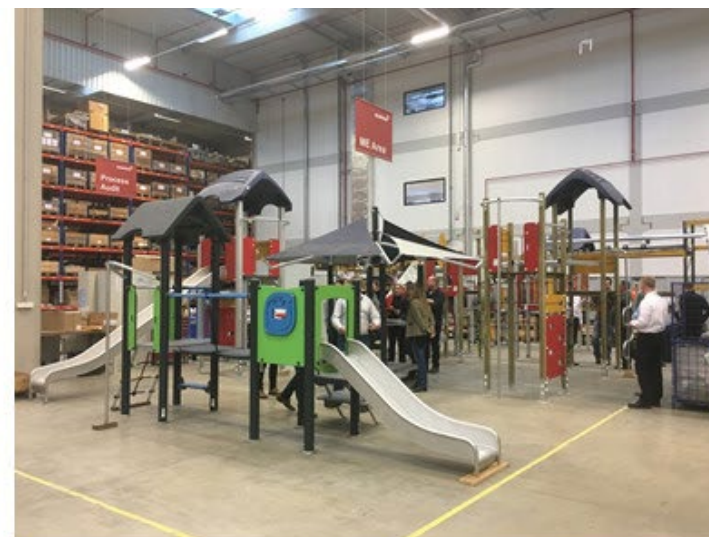
KOMPAN are using recycled materials in more than 70% of our total material consumption and 95% can be recycled after use.

Electricity

As the KOMPAN production volumes increase in our factories, we are continuing to drive down our energy consumption

- ✦ KOMPAN have implemented purchasing more electricity from sustainable suppliers.
- ✦ KOMPAN are using solar panels to generate electricity in our production facilities.

KOMPAN's cardboard packaging is 80% recycled content and 100% recyclable after use. We do not use single use plastic in our products, we use post-consumer plastic waste in our products.



Waste

KOMPAN apply the 'waste hierarchical approach' by reducing, reusing and recycling all on-site waste where we can. With a brighter future in mind and in line with implementation of our Management Systems ISO 14001 (environmental) and ISO 50001 (energy), we never stop investigating ways to reduce our environmental and social impacts.

KOMPAN focuses on how we can minimise the waste of resources and reduce environmental hazards in the future with annual targets and reviews. Despite increased business and production volume through our factory we strive each year to reduce the waste ratio annually by at least 3%. This ambition was met in 2022 and is being calculated for 2023.

KOMPAN equipment is delivered to site on wooden pallets and where practical in cardboard packaging that is 80% recycled content and 100% recyclable after use. Following unloading, the wooden pallets will then be taken away and reused by KOMPAN, or we will find a local company who will recycle them. The cardboard will be disposed of into a separate skip and taken away to be recycled. We will identify local companies we can use to reuse and recycle any of our on-site waste.

Any existing unusable equipment that is removed during this project will be recycled through scrap yards or licensed tips. If any existing equipment onsite is repairable or reusable we will look to do this.

We do not use single use plastic in our products, we only use post-consumer plastic waste in our products. We also have a Zero Factory Waste policy whereby all excess materials are gathered and reused, including sawdust and plastic cut offs, currently 91% of this is recycled.



Factory Waste Management

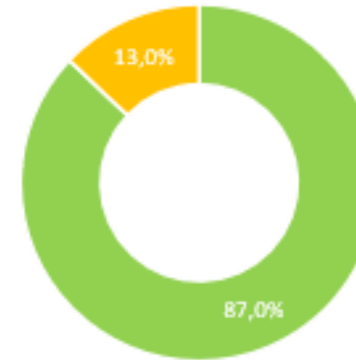
performed under contract with company SUEZ the global leader in waste and water management with focus on a more efficient use and protection of resources.



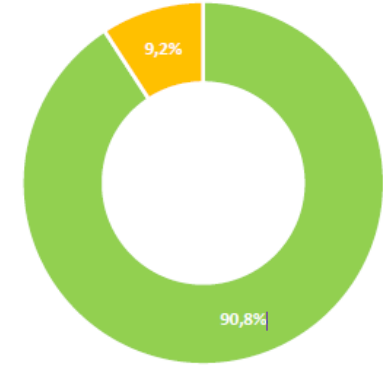
Despite increased business and production volume through our factory we strive each year to reduce the waste ratio annually by at least 3%. This ambition was met in 2022 and is being calculated for 2023.

In 2022 more than 90% of waste was either recycled or transformed into secondary raw materials and created new sources of energy.

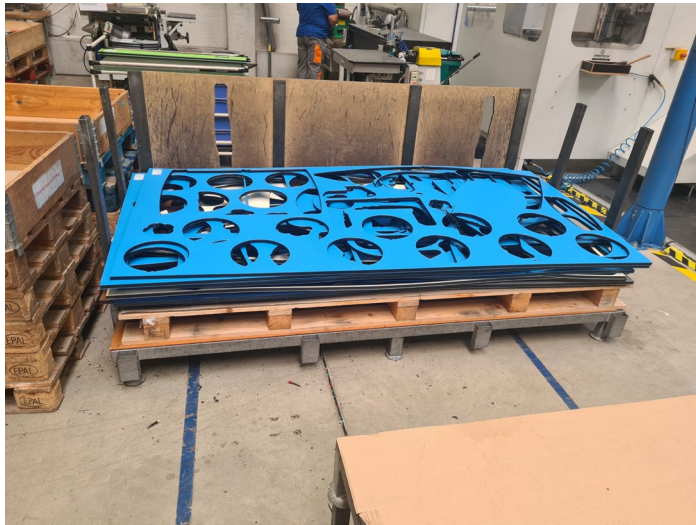
2021 Factory Waste



2022 Factory Waste



■ recycling incl. alternate usage of waste ■ landfill



Logistics

A recent study of CO₂e emissions conducted by Bureau Veritas on KOMPAN's behalf found that, for a playground project based in New Zealand, just 12% of the total project CO₂e was due to logistics.

Central European manufacturing facilities means our travel distance to the UK is reduced, approx. 1,500KM, based on the research we surmise that **less than 1%** of your project CO₂e is based on transportation. By far the biggest CO₂e emission contributor is raw materials used in manufacturing.



CO₂e on logistic from Brno CZ to Auckland NZ it is relatively low, due to mainly transported by sea.

**CO₂e on Logistic is 12%
from CZ to NZ**

Product weight: 1.473 ton

Product 2.933,2 kg/CO₂e

Transported total: 30.000 km

Logistic 353,52 kg/CO₂e

Sea 28.757 km - Road 881 km = Total: 29.638 km
(calculated 30.000 km)

KOMPAN partner with DSV Global Transport and Logistics for its deliveries of product from factory to site. DSV are committed to minimising any disturbances to the local and global environment and to the quality of life of the local communities in which they operate. DSV have reviewed specifically their UK business, activities and services – DSV's significant Environmental Impacts are associated with the use of fuel, road traffic, disposal of waste and energy use. DSV are committed to reducing these negative impacts as far as possible and have committed to:

- ✦ Comply with all statutory regulations and other requirements relating to DSV operations.
- ✦ Secure and maintain ISO14001 accreditation including the setting of Environmental objectives and targets.
- ✦ Monitor performance and strive for continual improvement and prevention of pollution.
- ✦ Lead by example, striving to reduce fuel use, energy consumption and minimise our waste disposed to landfill.
- ✦ Communicate policy and requirements to all persons working for or on DSV's behalf.

To achieve this policy DSV will ensure that their staff have the necessary training, information, systems and authority to minimize the effects of their operations on the environment. This policy is fully supported by the senior management team at DSV and will be periodically reviewed.



Your Sustainable Playground

Item No. PCT110621-0901



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	1.217,7 kg	37 %	50 %	25 %	25 %	100 %	3.157,4 kg
Stainless Steel	661,1 kg	20 %	50 %	25 %	25 %	100 %	2.776,6 kg
HDPE	565,2 kg	17 %	6 %	0 %	94 %	100 %	353,2 kg
Plastic	557,0 kg	17 %	75 %	1 %	24 %	100 %	2.525,0 kg
Aluminium	206,0 kg	6 %	100 %	0 %	0 %	100 %	1.222,8 kg
Rubber	89,6 kg	3 %	0 %	0 %	100 %	100 %	10,3 kg
HPL	13,2 kg	> 0 %	100 %	0 %	0 %	0 %	29,5 kg
Rope	7,7 kg	> 0 %	72 %	14 %	14 %	0 %	37,3 kg
Other	0,7 kg	> 0 %	100 %	0 %	0 %	0 %	6,3 kg
Total	3.318,2 kg	100 %	48,7 %	14,4 %	36,9 %	99,3 %	10.118,4 kg
Total Recycle Content: 51,3 %				Total: 3,05 kg CO ₂ e / kg			

Item No. ELE400024-3017F



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	7,5 kg	49 %	50 %	25 %	25 %	100 %	20,4 kg
Plastic	5,9 kg	39 %	67 %	0 %	33 %	100 %	10,8 kg
Aluminium	1,6 kg	11 %	100 %	0 %	0 %	100 %	14,6 kg
Stainless Steel	0,2 kg	1 %	50 %	25 %	25 %	100 %	0,7 kg
Total	15,2 kg	100 %	61,9 %	12,7 %	25,5 %	100,0 %	46,5 kg
Total Recycle Content: 38,0 %				Total: 3,09 kg CO ₂ e / kg			

Item No. ELE400065-3717GR



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	50,8 kg	63 %	50 %	25 %	25 %	100 %	133,5 kg
Plastic	21,8 kg	27 %	67 %	0 %	33 %	100 %	40,0 kg
Aluminium	6,1 kg	8 %	100 %	0 %	0 %	100 %	55,7 kg
HDPE	1,9 kg	2 %	5 %	0 %	95 %	100 %	1,1 kg
Stainless Steel	0,3 kg	> 0 %	50 %	25 %	25 %	100 %	1,4 kg
Total	80,9 kg	100 %	57,3 %	15,8 %	26,9 %	100,0 %	231,7 kg
Total Recycle Content: 42,6 %				Total: 2,86 kg CO ₂ e / kg			

Item No. FPW20500-0900



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S

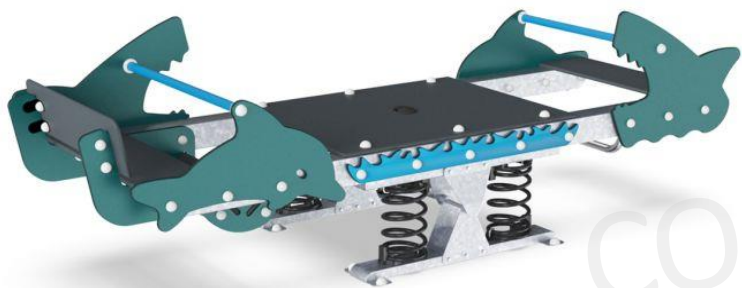


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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	94,0 kg	96 %	50 %	25 %	25 %	100 %	296,2 kg
Aluminium	2,0 kg	2 %	100 %	0 %	0 %	100 %	18,5 kg
Plastic	1,5 kg	2 %	65 %	35 %	0 %	100 %	13,4 kg
Stainless Steel	0,6 kg	1 %	50 %	25 %	25 %	100 %	2,4 kg
Total	98,1 kg	100 %	51,2 %	24,6 %	24,1 %	100,0 %	330,5 kg
Total Recycle Content: 48,7 %				Total: 3,37 kg CO ₂ e / kg			

Item No. M18776-01P



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Material Type

	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	150,2 kg	57 %	50 %	25 %	25 %	100 %	387,1 kg
HPL	51,8 kg	20 %	100 %	0 %	0 %	0 %	115,6 kg
HDPE	27,7 kg	11 %	5 %	0 %	95 %	100 %	16,6 kg
Plastic	26,7 kg	10 %	100 %	0 %	0 %	100 %	82,0 kg
Stainless Steel	5,1 kg	2 %	50 %	25 %	25 %	100 %	21,4 kg

Total

261,5 kg

100 %

60,2 %

14,8 %

24,9 %

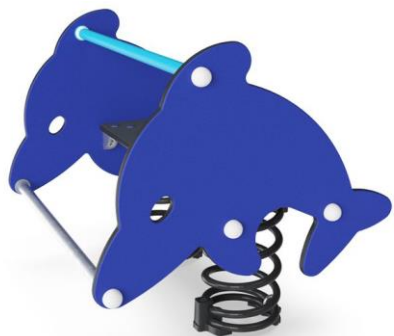
80,2 %

622,7 kg

Total Recycle Content: 39,7 %

Total: 2,38 kg CO₂e / kg

Item No. PCM104-0601



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Let's play

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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	39,1 kg	62 %	50 %	25 %	25 %	100 %	100,8 kg
Plastic	13,4 kg	21 %	100 %	0 %	0 %	100 %	36,5 kg
HPL	5,4 kg	9 %	100 %	0 %	0 %	0 %	12,0 kg
HDPE	3,9 kg	6 %	5 %	0 %	95 %	100 %	2,3 kg
Stainless Steel	1,4 kg	2 %	50 %	25 %	25 %	100 %	5,9 kg
Total	63,2 kg	100 %	62,1 %	16,0 %	21,9 %	91,5 %	157,5 kg
Total Recycle Content: 37,9 %				Total: 2,50 kg CO ₂ e / kg			

Item No. PCM151-0903



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Let's play

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Material Type	Net Weight kg	% of Total	Virgin				
				Post Industrial Recycled	Post Consumer Recycled	End of Life Recyclable	Kg CO ₂ e
Steel/Metal	84,1 kg	89 %	50 %	25 %	25 %	100 %	219,2 kg
Aluminium	6,1 kg	6 %	100 %	0 %	0 %	100 %	55,7 kg
Plastic	4,5 kg	5 %	100 %	0 %	0 %	100 %	18,3 kg
Stainless Steel	0,1 kg	> 0 %	50 %	25 %	25 %	100 %	0,5 kg
Total	94,8 kg	100 %	55,6 %	22,2 %	22,2 %	100,0 %	293,7 kg
Total Recycle Content: 44,4 %				Total: 3,10 kg CO ₂ e / kg			

Item No. PCM159-1003



Validation of
CO₂ calculation
BUREAU VERITAS
HSE Denmark A/S



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Material Type	Net Weight kg	% of Total	Virgin	 Post Industrial Recycled	 Post Consumer Recycled	 End of Life Recyclable	 Kg CO ₂ e
Steel/Metal	74,4 kg	88 %	50 %	25 %	25 %	100 %	191,7 kg
Plastic	6,9 kg	8 %	100 %	0 %	0 %	100 %	22,3 kg
Aluminium	2,6 kg	3 %	100 %	0 %	0 %	100 %	23,9 kg
Stainless Steel	0,5 kg	1 %	50 %	25 %	25 %	100 %	2,3 kg
Concrete	0,5 kg	1 %	100 %	0 %	0 %	0 %	0,1 kg
Total	84,9 kg	100 %	55,9 %	22,1 %	22,1 %	99,4 %	240,3 kg
Total Recycle Content: 44,1 %				Total: 2,83 kg CO ₂ e / kg			