zenithinteriors.com

# DENN Environmental Summary

Zenith

#### Sustainability in Action:

Zenith products and operations are aligned with global industry best practices. Each product design considers sustainability factors of the built environment and the health of the occupants.

Having all relevant certifications, Zenith is able to independently verify environmental and sustainability standards, technical design and safety adherence. All facets of Zenith's supply chain are compliant with industry guidelines for procurement, manufacture, and supply of products.

#### Denn Chair:

Denn's intelligent and intuitive motion allows you to effortlessly move from one posture to the next without thought or restriction. Responding to your conscious and subconscious movements, Denn supports your body allowing you to achieve a state of uninterrupted flow.

Denn embraces a post-plastic era by transforming upcycled low-grade waste materials into innovative performance seating.

94% of Denn can be recycled at end of life pending on the availabilities of recycling facilities.

Not only does Denn use as least material as possible, but it also uses environmentally conscious materials across all components.

- The back support surface is made from 100% ocean and post-consumer waste and utilises 3D knitting to minimise manufacturing waste.
- The back structure is 90% post-consumer recycled Polycarbonate and uses no glass fibre enabling better recyclability.
- The main structural plastic elements are made from 100% post-consumer recycled Nylon.

#### **Certifications:**



#### **GECA Certified**

GECA certification is a significant achievement, as the independent assessment looks at impacts across a product's entire lifecycle, from the extraction of raw materials to the end of its life. The third-party assessment procedures and robust standards mean that GECA certification is trusted and rigorous. GECA is also the only Australian member of the Global Ecolabelling Network (GEN).



#### **GREENGUARD** Certified

Denn chairs have achieved GREENGUARD and GREENGUARD Gold certifications. This means Denn has met GREENGUARD standards for low emissions do not create polluted indoor air.

The intention of our calculations is to supply the most precise recycled content possible, however market variables and manufacturing processes may result in slightly reduced or slightly increased recycled material. All recycled content is based on statistics provided by suppliers, industry data and ranges, or other universal information.

Material	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)		
Plastic	6.97	15.37			
Steel	6.21	13.69			
Foam	0.64	1.41	Plastic 4		
Knit	0.14	0.31	Steel 43		
Fabric	0.14	0.31	Foam 4		
Other Materials	0.12	0.26	Fabric T		
Total	14.21	31.35			

#### Denn Chair with 4D Arms and Plastic Base

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (lb)	
Plastic	4.56	10.05	
Steel	3.10	6.83	
Foam	0.00	0.00	
Knit	0.14	0.31	
Fabric	0.14	0.31	
Other Materials	0.00	0.00	
Total	7.94	17.5	

#### **Post-Consumer & Post-Industrial**



Total Recycled Content 55.9%

Total Recycled Content 55.9%

/cled	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
nsumer	4.84	10.67	
lustrial	3.10	6.83	
	7.94	17.5	Post-Consumer 34.
			Post-Industrial 21.8

Material Content Denn Chair with 4D Arms

#### Denn Chair with Fixed Loop Arms and Plastic Base

aterial	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
lastic	6.99	15.41	
iteel	5.43	11.97	
oam	0.60	1.33	Plastic 52
ínit	0.14	0.31	
abric	0.14	0.31	Foam 4. Knit 1.
Other Materials	0.12	0.26	Fabric 1. Other Materials 0.
otal	13.42	29.59	

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (Ib)	Weight Percentage of Ch
Plastic	4.66	10.27	
Steel	2.72	6.00	
Foam	0.00	0.00	
Knit	0.14	0.31	
Fabric	0.14	0.31	
Other Materials	0.00	0.00	
Total	7.66	16.89	

#### Post-Consumer & Post-Industrial



Total Recycled Content 57.1%

Plastic 34.8% Steel 20.3%

Knit

Fabric

Total Recycled Content 57.1%

1.0%

1.0%

## Zenith | Material Denn Ch

Material Content Denn Chair with Fixed Loop Arms

#### Denn Chair with No Arms and Plastic Base

Material	Overall Weight (kg)	Overall Weight (Ib)	Weight Percentage of Chair (%)	
Plastic	5.96	13.14		
Steel	4.66	10.27		
Foam	0.60	1.32	Plastic 5	
Knit	0.14	0.31		
Fabric	0.14	0.31	- Foam Knit	
Other Materials	0.12	0.26	Fabric Other Materials	
Total	11.61	25.61		

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (lb)	Weight Percentage of Chair (%)
Plastic	3.94	8.69	
Steel	2.33	5.14	
Foam	0.00	0.00	Plastic 34.0
Knit	0.14	0.31	
Fabric	0.14	0.31	Knit 1.2
Other Materials	0.00	0.00	Fabric 1.2
Total	6.55	14.45	
			Total Recycled Content 56.5

#### **Post-Consumer & Post Industrial**

a	Overall Weight (kg)	Overall Weight (Ib)	Weight Percentage of Chair (%)
sumer	4.22	9.30	
1	2.33	5.15	
	6.55	14.44	Post-Consumer 36

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Material Content Denn Chair with No Arms

Total Recycled Content 56.5%

The intention of our calculations is to supply the most precise recycled content possible, however market variables and manufacturing processes may result in slightly reduced or slightly increased recycled material. All recycled content is based on statistics provided by suppliers, industry data and ranges, or other universal information.

#### Denn Drafting Chair with No Arms and Plastic Base

rial	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
istic	5.96	13.13	
eel	6.07	13.38	
am	0.60	1.32	Plastic 43
nit	0.14	0.30	Steel 44
abric	0.14	0.30	Foam 4
ther Materials	0.82	1.80	Knit T Fabric 1
otal	13.7	30.23	Other Materials 6

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (lb)
Plastic	3.94	8.68
Steel	2.33	5.13
Foam	0.00	0.00
Knit	0.14	0.30
Fabric	0.14	0.30
Other Materials	0.00	0.00
Total	6.55	14.41

### Post-Consumer & Post-Industrial

Weight Percentage of Chair (%)					
				Plastic	28.7%
				Steel	17.0%
				Knit	1.0%
				Fabric	1.0%

Total Recycled Content 47.7%

ype of Recycled laterial	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
Post-Consumer	4.22	9.30	
Post-Industrial	3.03	5.13	
Total	7.25	14.43	Post-Consumer 30.7%
			Post-Industrial 22.1%

Total Recycled Content 100%

### 

Material Content Denn Drafting Chair with No Arms

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#### Denn Drafting Chair with 4D Arms and Plastic Base

	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (
ic	6.97	15.36	
el	7.62	16.7	
m	0.64	1.41	
it	0.14	0.30	
Ibric	0.14	0.30	
ther Materials	0.82	1.80	
otal	16.32	36.00	Other

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (lb)
Plastic	4.56	10.05
Steel	3.10	6.83
Foam	0.00	0.00
Knit	0.14	0.30
Fabric	0.14	0.30
Other Materials	0.00	0.00
Total	7.94	17.48

#### **Post-Consumer & Post-Industrial**



Total Recycled Content 48.6%

ype of Recycled laterial	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
Post-Consumer	4.83	10.64	
Post-Industrial	3.81	6.83	
Total	8.64	17.47	Post-Consumer 55.92
			Post-Industrial 44.08

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Material Content Denn Drafting Chair with 4D Arms

The intention of our calculations is to supply the most precise recycled content possible, however market variables and manufacturing processes may result in slightly reduced or slightly increased recycled material. All recycled content is based on statistics provided by suppliers, industry data and ranges, or other universal information.

#### Denn Drafting Chair with Fixed Loop Arms and Plastic Base

Material	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
Plastic	6.99	15.41	
Steel	6.84	15.07	
Foam	0.60	1.32	Plastic 45.03
Knit	0.14	0.30	
Fabric	0.14	0.30	- Foam 3.89
Other Materials	0.82	1.80	Knit 0.99 Fabric 0.99
Total	15.52	34.26	Other Materials 5.39

#### **Recycled Material Breakdown**

Material	Recycled Content Weight (kg)	Recycled Content Weight (lb)
Plastic	4.66	10.27
Steel	2.72	5.99
Foam	0.00	0.00
Knit	0.14	0.30
Fabric	0.14	0.30
Other Materials	0.00	0.00
Total	7.65	16.86

#### **Post-Consumer & Post-Industrial**



Total Recycled Content 49.3%

cycled	Overall Weight (kg)	Overall Weight (lb)	Weight Percentage of Chair (%)
umer	4.94	10.89	
trial	3.42	5.99	
	8.36	16.88	Post-Consumer

Total Recycled Content 53.8%

#### Zenith | Material Content Denn Drafting Cha

Denn Drafting Chair with Fixed Loop Arms