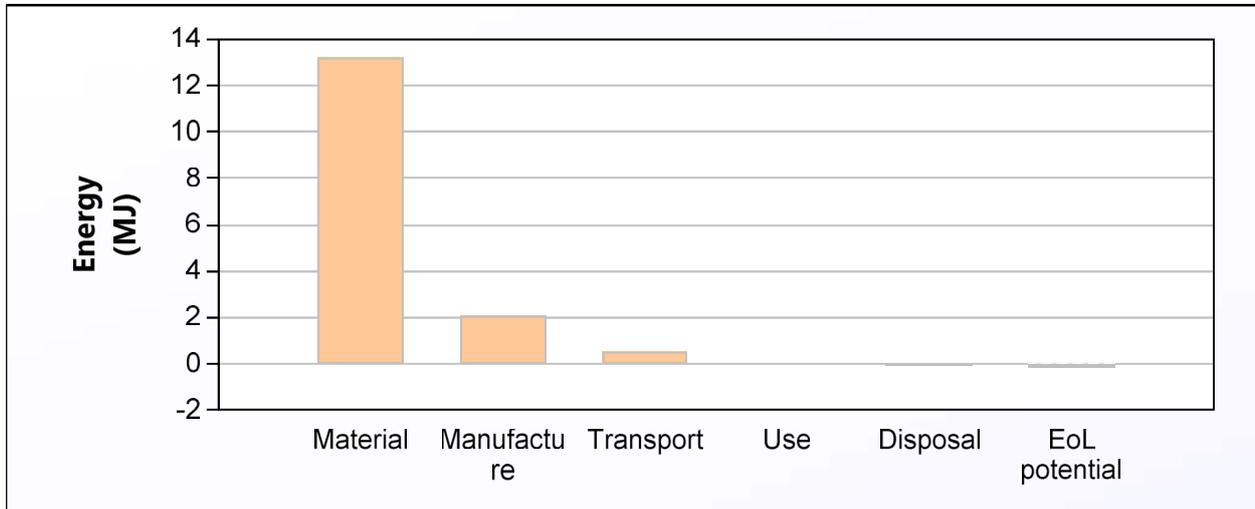


Energy Analysis

[Summary](#)


	Energy (MJ/year)
Equivalent annual environmental burden (averaged over 1 year product life):	15,9

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass processed** (kg)	Energy (MJ)	%
Nepleur	PVC-elastomer (Shore A75)	Virgin (0%)	0,07	1	0,078	3,9	29,3
Zwarte voering	Polyamide fiber (Nylon-6)	Virgin (0%)	0,025	1	0,028	3,4	25,9
Grijze vulling	Polyester fiber (Dacron)	Virgin (0%)	0,023	1	0,026	2	15,3
Zool	Polyurethane rubber (unfilled)	Virgin (0%)	0,035	1	0,036	2,9	22,1
Hak	Polyurethane foam (rigid, closed cell, 0.6)	Virgin (0%)	0,008	1	0,0082	0,75	5,7
foam	PE foam (cross-linked, closed cell, 0.080)	Virgin (0%)	0,002	1	0,0024	0,21	1,6
Total				6	0,18	13	100

*Typical: Includes 'recycle fraction in current supply'

**Where applicable, includes material mass removed by secondary processes

Manufacture:

[Summary](#)

Component	Process	% Removed	Amount processed	Energy (MJ)	%
Nepleur	Polymer molding	-	0,078 kg	1,3	63,3
Nepleur	Cutting and trimming	10	0,0078 kg	0,0023	0,1
Zwarte voering	Fabric production	-	0,028 kg	0,072	3,4
Zwarte voering	Cutting and trimming	10	0,0028 kg	0,00083	0,0
Grijze vulling	Fabric production	-	0,026 kg	0,066	3,2
Grijze vulling	Cutting and trimming	10	0,0026 kg	0,00077	0,0
Zool	Polymer molding	-	0,036 kg	0,6	28,3
Zool	Cutting and trimming	2	0,00071 kg	0,00021	0,0
Hak	Cutting and trimming	2	0,00016 kg	4,9e-05	0,0
foam	Polymer molding	-	0,0024 kg	0,034	1,6
foam	Cutting and trimming	15	0,00035 kg	0,00011	0,0
Total				2,1	100

Transport:

[Summary](#)

Breakdown by transport stage

Stage name	Transport type	Distance (km)	Energy (MJ)	%
suezkanaal route	Ocean freight	1,8e+04	0,53	100,0
Total		1,8e+04	0,53	100

Breakdown by components

Component	Mass (kg)	Energy (MJ)	%
Nepleur	0,07	0,23	42,9
Zwarte voering	0,025	0,081	15,3
Grijze vulling	0,023	0,075	14,1
Zool	0,035	0,11	21,5
Hak	0,008	0,026	4,9
foam	0,002	0,0065	1,2
Total	0,16	0,53	100

Use:

[Summary](#)

Relative contribution of static and mobile modes

Mode	Energy (MJ)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:[Summary](#)

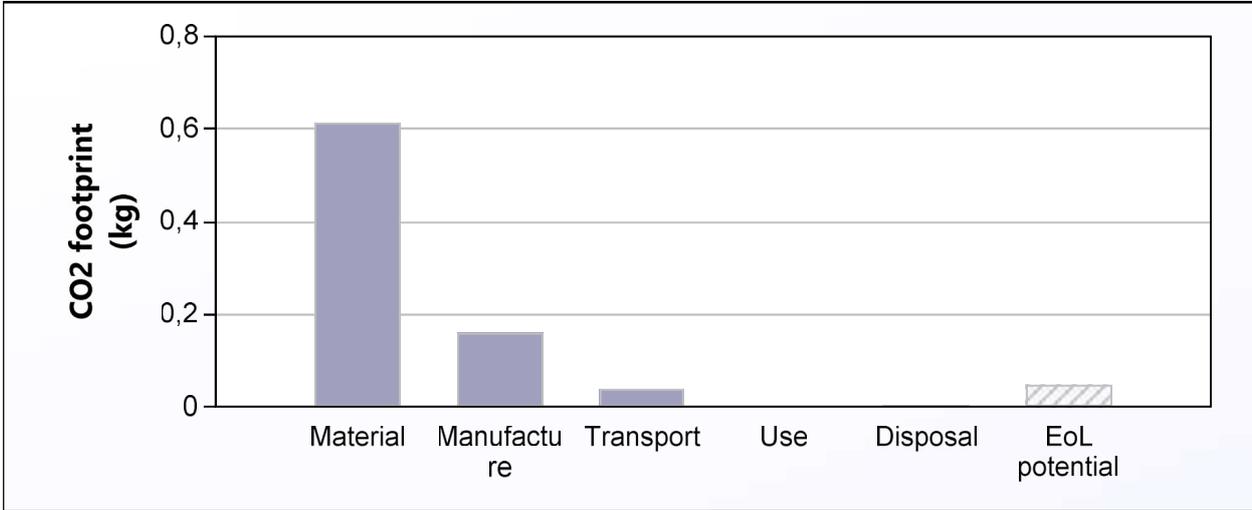
Component	End of life option	% recovered	Energy (MJ)	%
Nepleur	Combust	20,0	0,018	42,9
Zwarte voering	Combust	20,0	0,0065	15,3
Grijze vulling	Combust	20,0	0,006	14,1
Zool	Combust	20,0	0,0091	21,5
Hak	Combust	20,0	0,0021	4,9
foam	Combust	20,0	0,00052	1,2
Total			0,042	100

EoL potential:

Component	End of life option	% recovered	Energy (MJ)	%
Nepleur	Combust	20,0	-0,063	31,9
Zwarte voering	Combust	20,0	-0,049	24,7
Grijze vulling	Combust	20,0	-0,033	16,7
Zool	Combust	20,0	-0,039	19,8
Hak	Combust	20,0	-0,0089	4,5
foam	Combust	20,0	-0,0045	2,3
Total			-0,2	100

Notes:[Summary](#)

CO2 Footprint Analysis

[Summary](#)


	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 1 year product life):	0,816

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass processed** (kg)	CO2 footprint (kg)	%
Nepleur	PVC-elastomer (Shore A75)	Virgin (0%)	0,07	1	0,078	0,14	23,4
Zwarte voering	Polyamide fiber (Nylon-6)	Virgin (0%)	0,025	1	0,028	0,2	32,5
Grijze vulling	Polyester fiber (Dacron)	Virgin (0%)	0,023	1	0,026	0,11	17,5
Zool	Polyurethane rubber (unfilled)	Virgin (0%)	0,035	1	0,036	0,11	18,7
Hak	Polyurethane foam (rigid, closed cell, 0.6)	Virgin (0%)	0,008	1	0,0082	0,041	6,7
foam	PE foam (cross-linked, closed cell, 0.080)	Virgin (0%)	0,002	1	0,0024	0,0074	1,2
Total				6	0,18	0,61	100

*Typical: Includes 'recycle fraction in current supply'

**Where applicable, includes material mass removed by secondary processes

Manufacture:[Summary](#)

Component	Process	% Removed	Amount processed	CO2 footprint (kg)	%
Nepleur	Polymer molding	-	0,078 kg	0,1	61,7
Nepleur	Cutting and trimming	10	0,0078 kg	0,00018	0,1
Zwarte voering	Fabric production	-	0,028 kg	0,0058	3,6
Zwarte voering	Cutting and trimming	10	0,0028 kg	6,4e-05	0,0
Grijze vulling	Fabric production	-	0,026 kg	0,0053	3,3
Grijze vulling	Cutting and trimming	10	0,0026 kg	5,9e-05	0,0
Zool	Polymer molding	-	0,036 kg	0,048	29,5
Zool	Cutting and trimming	2	0,00071 kg	1,6e-05	0,0
Hak	Cutting and trimming	2	0,00016 kg	3,8e-06	0,0
foam	Polymer molding	-	0,0024 kg	0,0027	1,7
foam	Cutting and trimming	15	0,00035 kg	8,1e-06	0,0
Total				0,16	100

Transport:[Summary](#)**Breakdown by transport stage**

Stage name	Transport type	Distance (km)	CO2 footprint (kg)	%
suezkanaal route	Ocean freight	1,8e+04	0,038	100,0
Total		1,8e+04	0,038	100

Breakdown by components

Component	Mass (kg)	CO2 footprint (kg)	%
Nepleur	0,07	0,016	42,9
Zwarte voering	0,025	0,0058	15,3
Grijze vulling	0,023	0,0054	14,1
Zool	0,035	0,0082	21,5
Hak	0,008	0,0019	4,9
foam	0,002	0,00047	1,2
Total	0,16	0,038	100

Use:[Summary](#)**Relative contribution of static and mobile modes**

Mode	CO2 footprint (kg)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:[Summary](#)

Component	End of life option	% recovered	CO2 footprint (kg)	%
Nepleur	Combust	20,0	0,0013	42,9
Zwarte voering	Combust	20,0	0,00046	15,3
Grijze vulling	Combust	20,0	0,00042	14,1
Zool	Combust	20,0	0,00064	21,5
Hak	Combust	20,0	0,00015	4,9
foam	Combust	20,0	3,6e-05	1,2
Total			0,003	100

EoL potential:

Component	End of life option	% recovered	CO2 footprint (kg)	%
Nepleur	Combust	20,0	0,015	32,6
Zwarte voering	Combust	20,0	0,0082	17,5
Grijze vulling	Combust	20,0	0,0082	17,5
Zool	Combust	20,0	0,012	24,7
Hak	Combust	20,0	0,0027	5,6
foam	Combust	20,0	0,00094	2,0
Total			0,047	100

Notes:[Summary](#)