

# dortmund

## Dortmund Wave

A PET corrugated raft design, this feature light can be used as a ceiling detail over desking and break out areas and to create zones within a space. PET acoustic material is 60% recycled and 100% recyclable, offering sustainable solutions for acoustic improvement.

PET felt is made from recycled plastic bottles that are collected, compressed, shredded, and melted down to create granulate, or plastic flakes.

Creating Quiet through architectural acoustic Solutions.



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**Design**

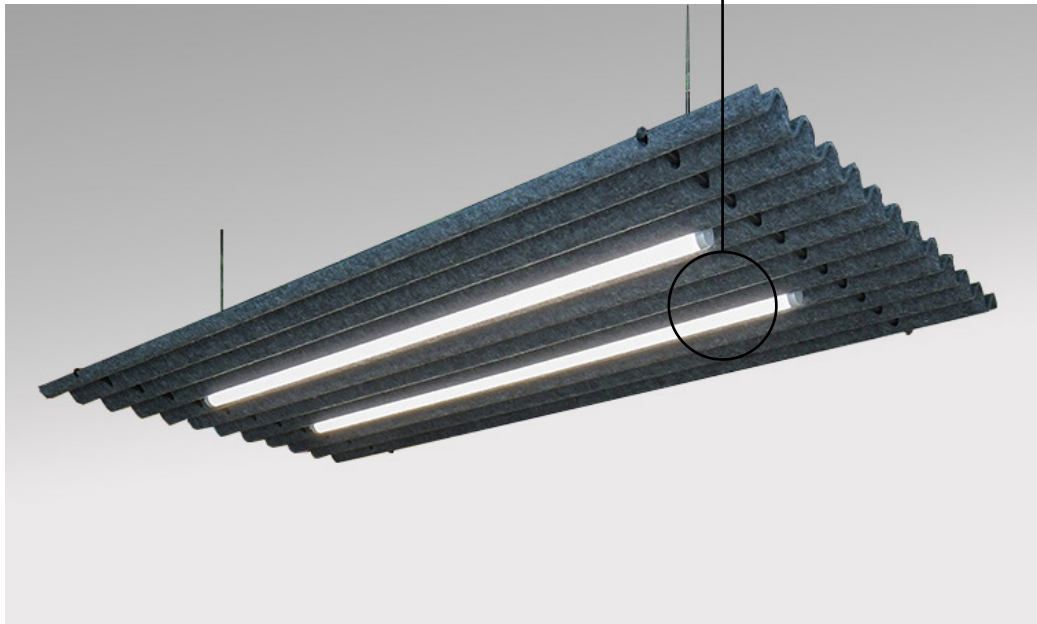
Polaris N1 main area lighting.

PET felt with 60% recycled post-consumer waste.

5 years Warranty

Range of colour options

Black three core flex and ceiling mount



DMND/1250x0800/***/2L	1200 x 638, 2m Suspended with ceiling fixing, 1 x Polaris N1 800mm light
DMND/1250x0800/***/2L	1200 x 1080, 2m Suspended with ceiling fixing, 2 x Polaris N1 800mm light
DMND/1250x0800/***/2L	1650 x 638, 2m Suspended with ceiling fixing, 1 x Polaris N1 800mm light
DMND/1250x0800/***/2L	1650 x 1080, 2m Suspended with ceiling fixing, 2 x Polaris N1 800mm light



SANDERLING  
GREY

Code SG



SKUA  
GREY

Code SKG

Note: To specify felt colour replace \*\*\*



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Acoustic Test Results for PET Sheet - ekkofelt™ by ekko®  
 Tests conducted by the University of Salford Acoustic Test Laboratory on  
 11th July 2023 Tests conducted in accordance with BS EN ISO 354: 2003  
 (Measurements of Absorption in Reverberation Room)

Thickness	Result Type	No Air Gap	50mm Air Gap	100mm Air Gap	200mm Air Gap
9mm	aw rating 0.250.650.9	0.25	0.65	0.9	0.9
	Absorption ClassECA	E	C	A	A
	as coefficient @ 2000 Hz0.70.950.85*	0.7	0.95	0.85*	0.95
	SAA rating - NRC				
	Replacement0.320.720.85	0.32	0.72	0.85	0.9
12mm	aw rating 0.250.650.9	0.25	0.65	0.9	0.95
	Absorption ClassECA	E	C	A	A
	as coefficient @ 2000 Hz0.70.950.85*	0.85	1.00	1*	1.00
	SAA rating - NRC				
	Replacement0.320.720.85	0.41	0.76	0.87	0.92
18mm	aw rating 0.250.650.9	0.45	0.8	0.95	1
	Absorption ClassECA	D	B	A	A
	as coefficient @ 2000 Hz0.70.950.85*	1	1	1	1
	SAA rating - NRC				
	Replacement0.320.720.85	0.6	0.84	0.91	0.95
24mm	aw rating 0.250.650.9	0.5	0.85	1	1
	Absorption ClassECA	D	B	A	A
	as coefficient @ 2000 Hz0.70.950.85*	1	1	1	1
	SAA rating - NRC				
	Replacement0.320.720.85	0.7	0.89	0.94	0.97

University of Salford test procedure is strictly conducted in accordance with BS EN ISO 354. Full test measurement report available on request.

aw (alpha weighted) rating has been calculated in accordance with BS EN 11654:1997 (sound absorbers for use in buildings)

BS EN 11654:1997 includes a table for expressing aw values as a single letter e.g. Absorption Class

as rating is the absorption coefficient at a particular frequency

SAA ratings are an American standard, widely used as a simple rating of absorption performance. Replaces previously titled NRC testing as coefficient affected by resonance during test at this frequency & air gap dimension, marked by \*

V1: Test data collated from source test results.  
 V2: Test results produced by University of Salford 11th July 2023.



Notes:

Frequencies (Hz) range of 125 to 5000Hz  
 Class of absorption in accordance with BS EN ISO 11654:1997  
 Average frequency of adult speech  
 American Standard (Sound Absorption Coefficient), replaces  
 NRC rating

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PET Felt panels are used for acoustic solutions in ceilings, walls, and lighting.  
Can be shaped and cut to designs for architectural soundscaping.

Key features Include:

- OEKO-TEX Standard 100 - Declaration of conformity EN ISO 170050-1.
- Manufactured using a minimum of 50% post-consumer recycled material.
- Limitless branding and design possibilities with in-house custom cutting.
- Excellent acoustic performance.
- 0% Formaldehyde binders in our ekkofelt™ Products.
- Non-toxic, non-irritant, and non-allergenic.
- Extensive range of colours Manufactured and stocked in the UK.

## SPECIFICATION

Panel Composition: 100% PET (50% Post Consumer Recycled Waster 50% Polyester Felt) Panel

Dimension : 2800mm (+/- 3mm) x 1200mm (+/- 3mm)

Thickness: 12mm (+/-0.5mm)

Weight: 8kg per Panel Material

Colours: 22 Colours in Stock / 75 Colours Available

Melting Point: 250°C Max. Recommended Service Temp: 80°C

## SOUND ABSORPTION

aw 0.25 (0mm air gap)

Class E. 0.65 (50mm air gap)

Class C. 0.90 (100mm air gap)

Class A. 0.95 (200mm air gap)

NRC: 0.45 (0mm air gap) 0.85 (50mm air gap)

Fire retardant: EN 13501-1: 2018 Classification B-s1, d0 P

## ENVIRONMENTAL

ekkofelt™ PET is manufactured using a minimum of 50% post-consumer recycled content (PET plastic bottles).

## HAZARDS IDENTIFICATION

Non-hazardous and non-dangerous goods.

## CHEMICAL ENTITY

Polyester Fiber from PET (Polyethylene Terephthalate).

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