

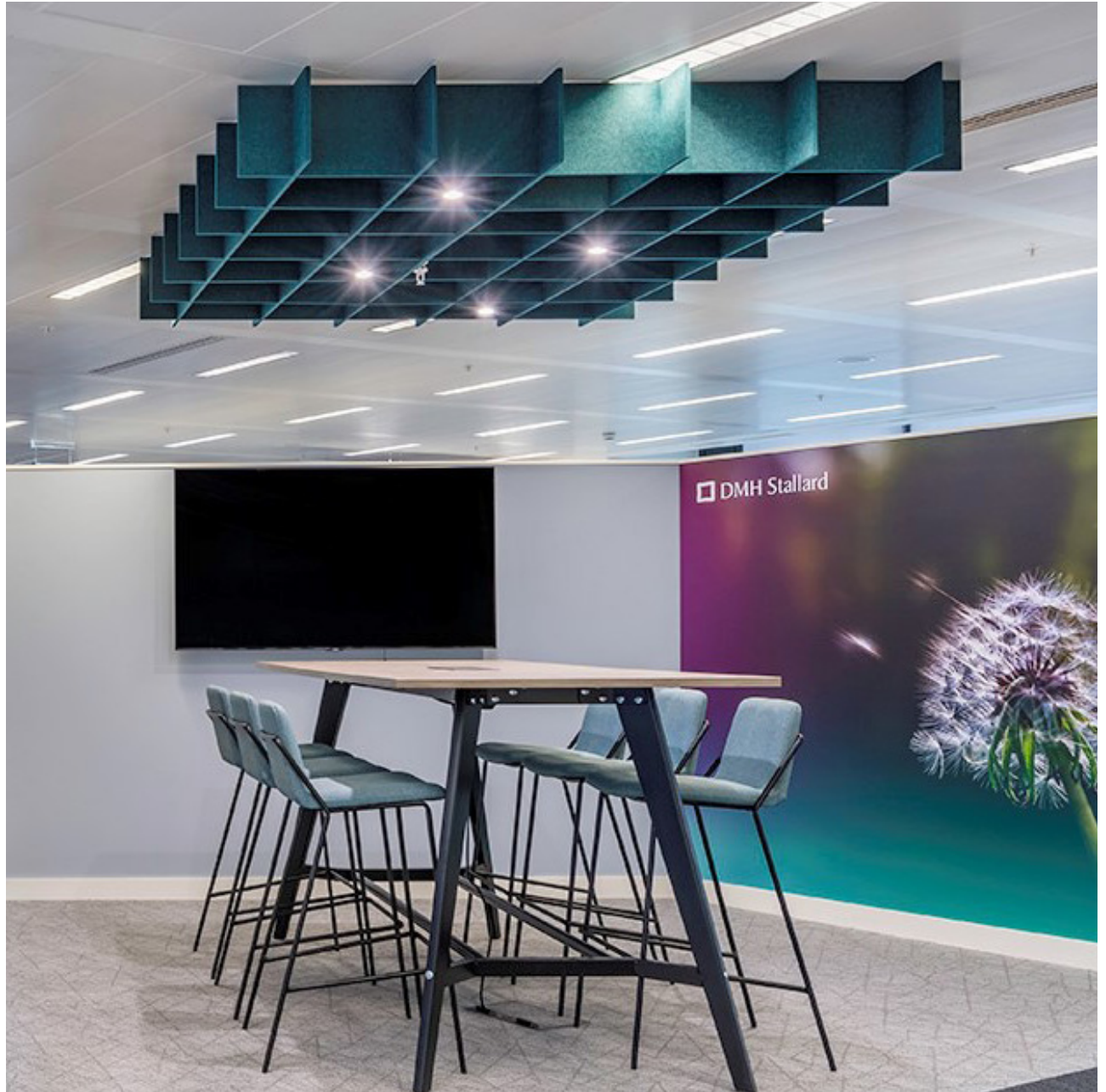
# kassel

## Kassel Ceiling Grid

Acoustic grid ceiling raft, The Kassel is a light and sound-absorbing solution in one. This acoustic lighting solution can be used as a ceiling detail in groups to absorb excess sound and reverberation.

Its grid shape allows for creating patterns on the ceiling and can incorporate lights and even artificial plants. A great solution to control spaces with high indexes of reverberation, the body optimises the NRC performance of every room.

Creating Quiet through architectural acoustic solutions.



**ekko**<sup>®</sup>  
ekkoacoustic.com



# kassel

## Design

A great solution to control spaces with high indexes of reverberation

PET felt with 50% recycled post-consumer waste.

5 years Warranty

Custom colours and printing available

Lighting and biophilic options



KSSL/1200x1200/\*\*\*

1200 x 1200 x 100 ceiling grid

KSSL/2400x1200/\*\*\*

1200 x 2400 x 100 ceiling grid

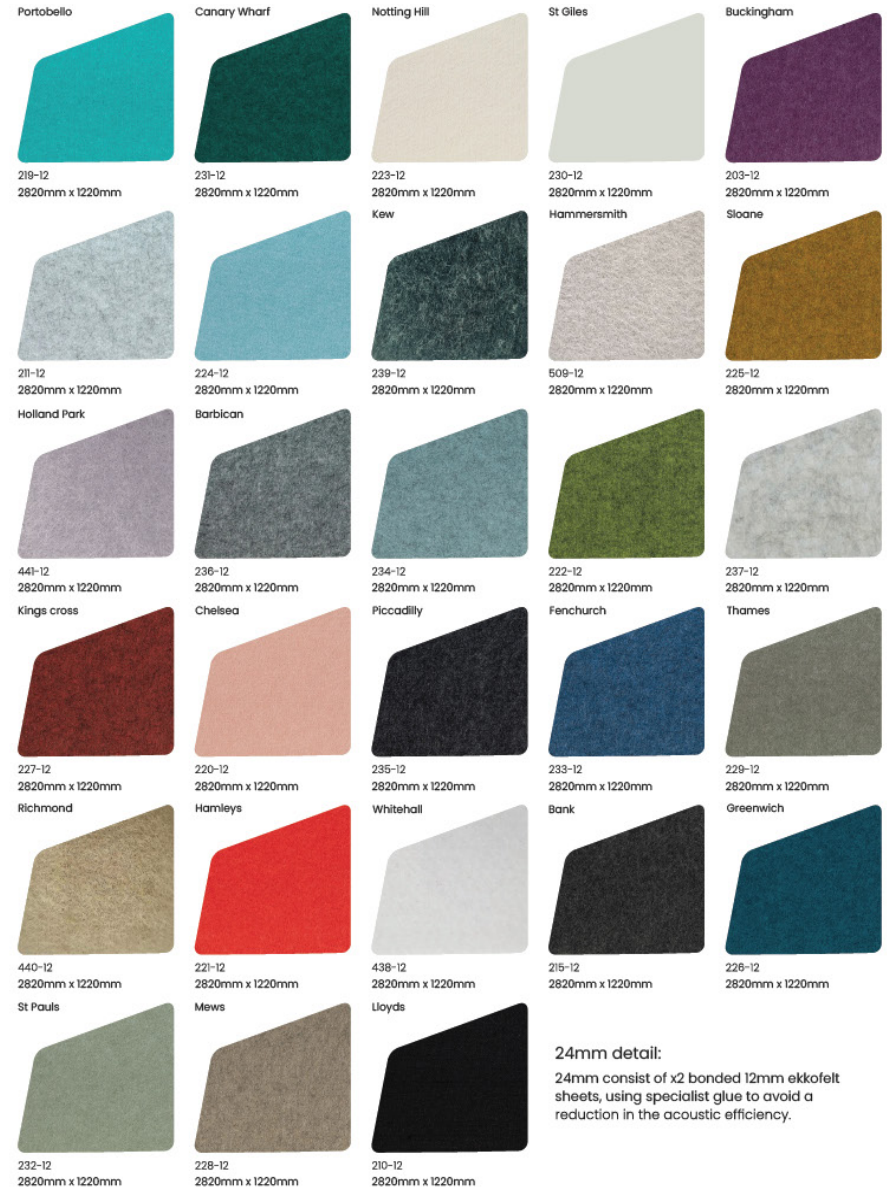
\*\*\* Colour

To specify felt colour replace \*\*\* with colour preferred colour code on the next page.

## Colour Options



### London Collection: 12mm



## Colour Options

### Euro Collection: 12mm



36 French cotton  
12mm thick  
2820mm x 1220mm



32 Delta Blue  
12mm thick  
2820mm x 1220mm



22 Iberian Eucalyptus  
12mm thick  
2820mm x 1220mm



60 Dutch Pebble  
12mm thick  
2820mm x 1220mm



61 Texel Sand  
12mm thick  
2820mm x 1220mm



87 Carbon Black  
12mm thick  
2820mm x 1220mm



99 Ice White  
12mm thick  
2820mm x 1220mm



50 Nordic Stone  
12mm thick  
2820mm x 1220mm



70 River Rock  
12mm thick  
2820mm x 1220mm

### Euro Collection: 9mm



57 French Wool  
9mm thick  
2820mm x 1220mm



87 Carbon Black  
9mm thick  
2820mm x 1220mm



50 Nordic Stone  
9mm thick  
2820mm x 1220mm



70 River Rock  
9mm thick  
2820mm x 1220mm



58 Pompeii Marble  
9mm thick  
2820mm x 1220mm

# Creating quiet with sustainable materials.

ekkofelt® PET Felt panels absorb sound and reduce echo, they are manufactured from 57% compressed and shredded recycled plastic bottles and 43% polyester felt to make a highly sustainable and acoustic diverse material.

Please note that colours are photographic representations and we would advise ordering a sample.

# kassel

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 Class ECA	E	C	A	A
	as coefficient @ 2000 Hz 0.70.950.85*	0.7	0.95	0.85*	0.95
	SAA rating - NRC Replacement 0.320.720.85	0.32	0.72	0.85	0.9
12mm	aw rating 0.250.650.9	0.25	0.65	0.9	0.95
	Absorption Class ECA	E	C	A	A
	as coefficient @ 2000 Hz 0.70.950.85*	0.85	1.00	1*	1.00
	SAA rating - NRC Replacement 0.320.720.85	0.41	0.76	0.87	0.92
18mm	aw rating 0.250.650.9	0.45	0.8	0.95	1
	Absorption Class ECA	D	B	A	A
	as coefficient @ 2000 Hz 0.70.950.85*	1	1	1	1
	SAA rating - NRC Replacement 0.320.720.85	0.6	0.84	0.91	0.95
24mm	aw rating 0.250.650.9	0.5	0.85	1	1
	Absorption Class ECA	D	B	A	A
	as coefficient @ 2000 Hz 0.70.950.85*	1	1	1	1
	SAA rating - NRC Replacement 0.320.720.85	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

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

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

Frequencies (Hz) range of 125 to 5000Hz  
 Class of absorption in accordance with BS EN ISO 11654:1997  
 Average frequency of adult speech

# kassel

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 : 1200 x 1200 x 100 | 1200 x 2400 x 100mm (+/- 3mm)

Thickness: 12mm (+/-0.5mm)

Colours: 63 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).

**ekko**®  
ekkoacoustic.com

