

DeFelt®

PET ACOUSTIC PANEL
SPECIFICATION

Specifications

Felt Type	Thickness [mm]	Size [mm]	Density [g/m²]	Weight [kg/sheet]
Regular	9	1220 x 2440	1500	4.5
Regular	9	1220 x 2440	1900	5.7
Regular	12	1220 x 2440	2400	7.2
Regular	24	1220 x 2440	4000	12.0
Fire-rated	12	1220 x 2440	2400	7.2
Fire-rated	24	1220 x 2440	4000	12.0

All specs refer to singular products and not multiples unless specified. Due to the nature of the material and the cutting and fabrication process, minor dimensional variances may occur. Custom options are available upon request. PET Panels are sold in packages 5, 10, 12 sheets depending of the thickness. Please note that all colors come in all thicknesses.

Material	100% PET (60% from recycled Plastic bottles)
Fire Rating	In accordance with PN-EN 13501-1:2019-02 Fire reaction classification: B-s2, d0
Custom Options	Available upon request
Lead Time	*in stock for immediate shipment
VOC Emission	US EPA 5021A:2003 analysis was performed by HS- GS-MS. CAS No.75-25-2: VOC 0,0001%; CAS No. 110-54-3: VOC 0,0005%; CAS No. 71-43-2: VOC 0,0005%; CAS No. 100-42-5: VOC 0,0005%.

*Actual lead times are determined when the project goes into production and can change based on production schedule and all quantities, color and thicknesses being in stock at time of order. See DeFelt Product Lead Time Disclosure for more information.

Acoustic Data

Sound absorption in a reverberation room.

Tested material: **9mm PET Felt**

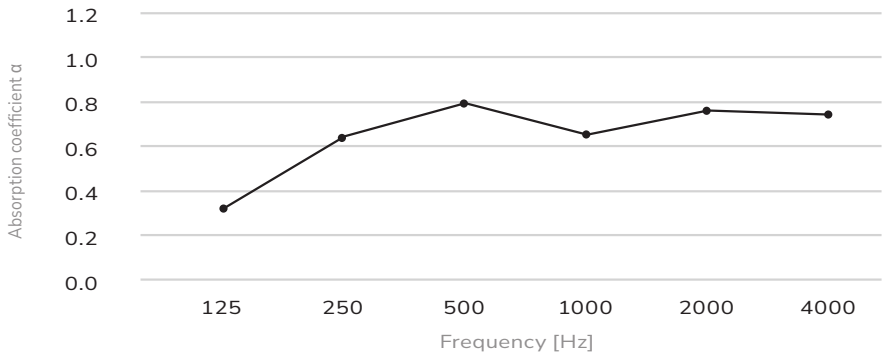
Test method: **EN ISO 354:2003**

Reverberation chamber volume: **200m³**

Test sample of area: **10.8m²**

Frequency [Hz]	α_s
125	0.32
250	0.65
500	0.80
1000	0.65
2000	0.77
4000	0.75
NRC	0.32
SAA	0.31

The characteristic curve of sound absorption frequency of specimen



Tested material: **12mm PET Felt**

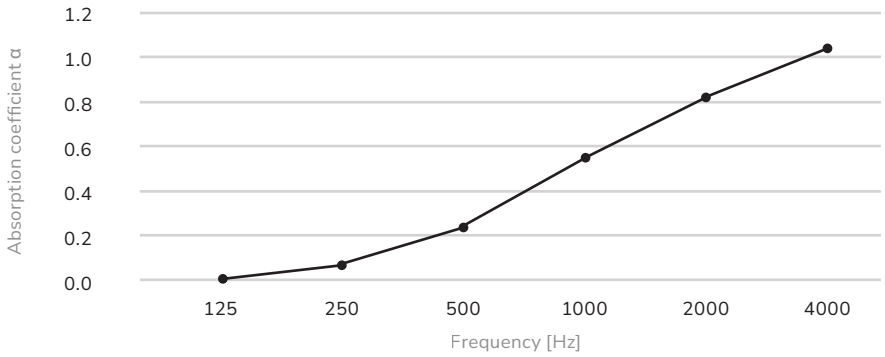
Test method: **ASTM C423-17**

Reverberation chamber volume: **240m³**

Test sample of area: **10.8m²**

Frequency [Hz]	α_s
125	0.00
250	0.07
500	0.24
1000	0.57
2000	0.83
4000	1.04
NRC	0.45
SAA	0.43

The characteristic curve of sound absorption frequency of specimen



Tested material: **24mm PET Felt**

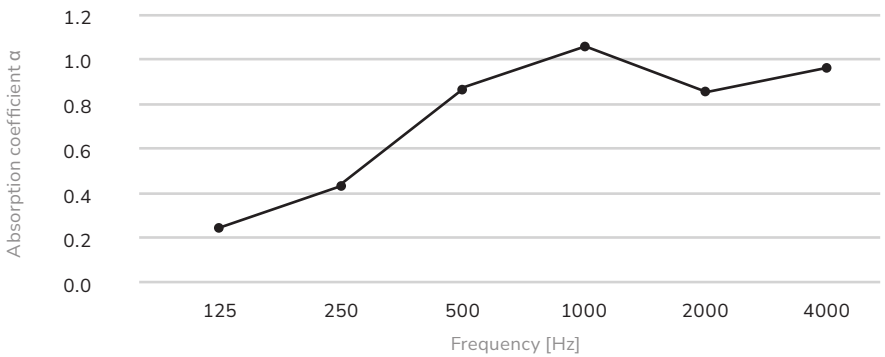
Test method: **ASTM C423-22**

Reverberation chamber volume: **260m³**

Test sample of area: **11.6m²**

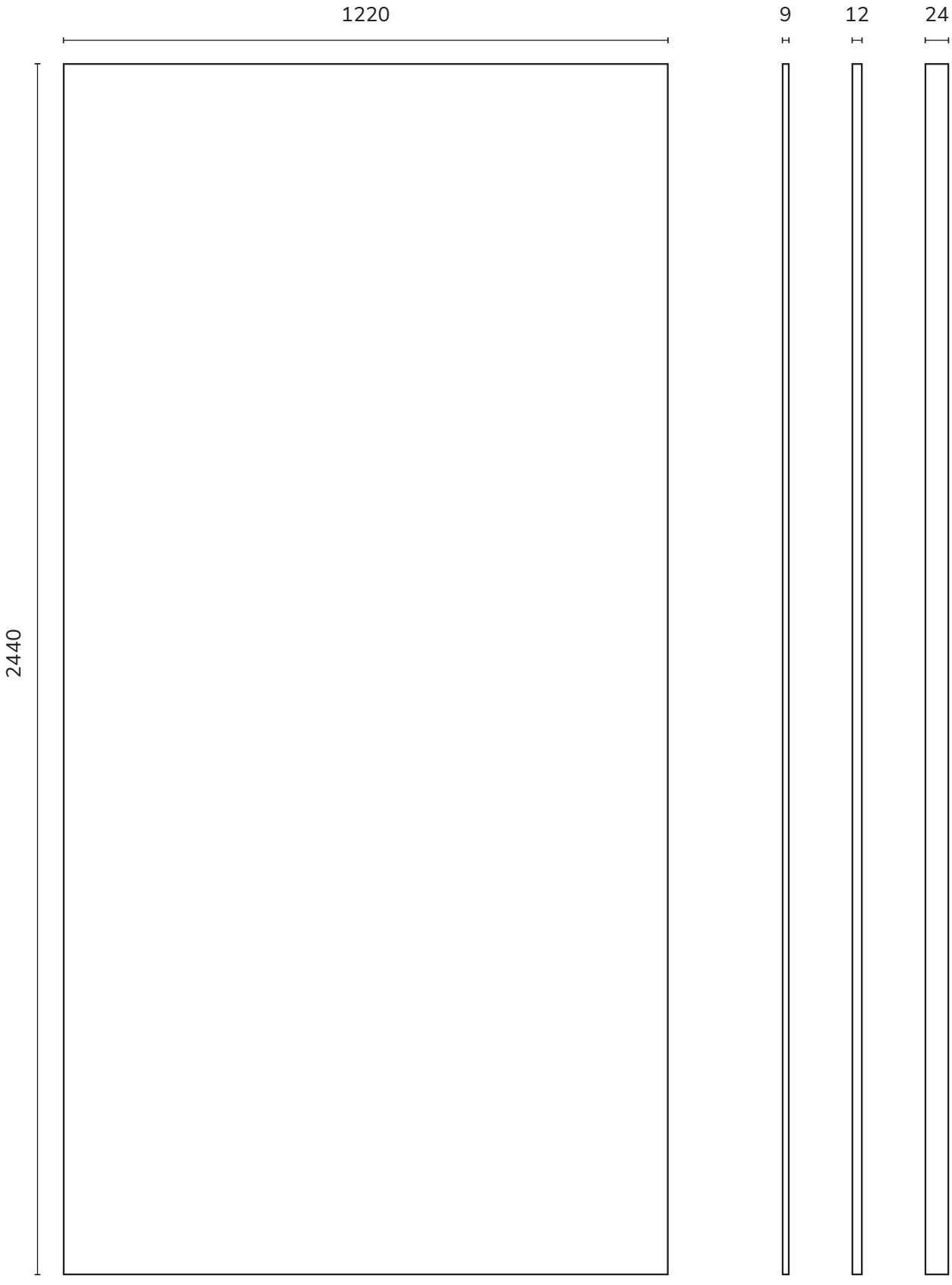
Frequency [Hz]	α_s
125	0.25
250	0.45
500	0.88
1000	1.06
2000	0.85
4000	0.97
NRC	0.80
SAA	0.82

The characteristic curve of sound absorption frequency of specimen



PET Felt Sheet Dimensions

Front and side view size [mm]



DeFelt Colors

Keep in mind that the colors of PET felts and fabrics may vary slightly from what you see in the catalog. For the most accurate representation, we recommend referring to our sample book or sample individually sent.

Due to the production process of both fiber and PET felt, there may be slight variations in material between different production batches. Additionally, please take into consideration that PET panels have distinct left and right sides so try always to present only one side of the sheet. Due to the manufacturing process, the felt board may show differences in shade depending on the direction of laying. We recommend laying all pieces in one direction to avoid undesirable visual effects.This is particularly important to consider when installing larger structures, such as wall-mounted panels or acoustic drop ceiling.



Color availability per property

Panel size 1220 x 2440 mm. Please contact us to make sure that the colors of your choice are available.

Color code	Regular				Fire - rated	
	9 mm 1500 g/m²	9 mm 1900 g/m²	12 mm 2400 g/m²	24 mm 4000 g/m²	12 mm 2400 g/m²	24 mm 4000 g/m²
DF-01	✔	✔	✔	✔	✔	✔
DF-02	✔	✔	✔	✔	✔	✔
DF-03	✔	✔	✔	✔	✔	✔
DF-04	✔	✔	✔	✔	✔	✔
DF-05	✔	✔	✔	✔	✔	✔
DF-06	✔	✔	✔	✔	✔	✔
DF-07	✔	✔	✔	✔	✔	✔
DF-08	✔	✔	✔	✔	✔	✔
DF-09	✔	✔	✔	✔	✔	✔
DF-10	✔	✔	✔	✔	✔	✔
DF-11	✔	✔	✔	✔	✔	✔
DF-12	✔	✔	✔	✔	✔	✔
DF-13	✔	✔	✔	✔	✔	✔
DF-14	✔	✔	✔	✔	✔	✔
DF-15	✔	✔	✔	✔	✔	✔
DF-16	✔	✔	✔	✔	✔	✔
DF-17	✔	✔	✔	✔	✔	✔
DF-18	✔	✔	✔	✔	✔	✔
DF-19	✔	✔	✔	✔	✔	✔
DF-20	✔	✔	✔	✔	✔	✔
DF-21	✔	✔	✔	✔	✔	✔
DF-22	✔	✔	✔	✔	✔	✔
DF-23	✔	✔	✔	✔	✔	✔
DF-24	✔	✔	✔	✔	✔	✔
DF-25	✔	✔	✔	✔	✔	✔
DF-26	✔	✔	✔	✔	✔	✔
DF-27	✔	✔	✔	✔	✔	✔
DF-28	✔	✔	✔	✔	✔	✔
DF-29	✔	✔	✔	✔	✔	✔
DF-30	✔	✔	✔	✔	✔	✔
DF-31	✔	✔	✔	✔	✔	✔
DF-32	✔	✔	✔	✔	✔	✔
DF-33	✔	✔	✔	✔	✔	✔
DF-34	✔	✔	✔	✔	✔	✔
DF-35	✔	✔	✔	✔	✔	✔
DF-36	✔	✔	✔	✔	✔	✔

✔ in stock ✔ on order

MOQ and Lead Time contact sales representative

Color availability per property

Panel size 1220 x 2440 mm. Please contact us to make sure that the colors of your choice are available.

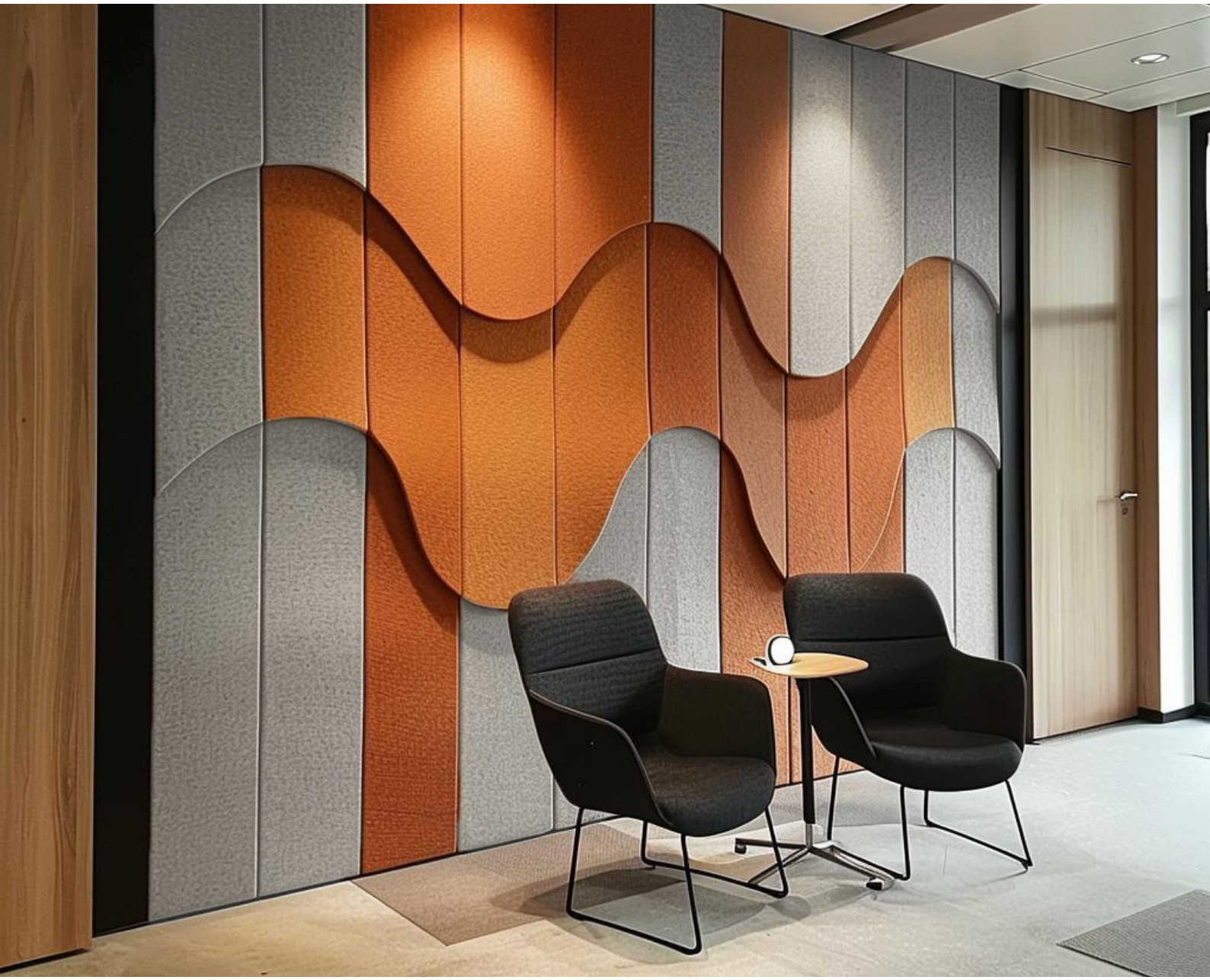
Color code	Regular				Fire - rated	
	9 mm 1500 g/m²	9 mm 1900 g/m²	12 mm 2400 g/m²	24 mm 4000 g/m²	12 mm 2400 g/m²	24 mm 4000 g/m²
DF-37	✔	✔	✔	✔	✔	✔
DF-38	✔	✔	✔	✔	✔	✔
DF-39	✔	✔	✔	✔	✔	✔
DF-40	✔	✔	✔	✔	✔	✔
DF-41	✔	✔	✔	✔	✔	✔
DF-42	✔	✔	✔	✔	✔	✔
DF-43	✔	✔	✔	✔	✔	✔
DF-44	✔	✔	✔	✔	✔	✔
DF-45	✔	✔	✔	✔	✔	✔
DF-46	✔	✔	✔	✔	✔	✔
DF-47	✔	✔	✔	✔	✔	✔
DF-48	✔	✔	✔	✔	✔	✔
DF-49	✔	✔	✔	✔	✔	✔
DF-50	✔	✔	✔	✔	✔	✔
DF-51	✔	✔	✔	✔	✔	✔
DF-52	✔	✔	✔	✔	✔	✔
DF-53	✔	✔	✔	✔	✔	✔
DF-54	✔	✔	✔	✔	✔	✔
DF-55	✔	✔	✔	✔	✔	✔
DF-56	✔	✔	✔	✔	✔	✔
DF-57	✔	✔	✔	✔	✔	✔
DF-58	✔	✔	✔	✔	✔	✔
DF-59	✔	✔	✔	✔	✔	✔
DF-60	✔	✔	✔	✔	✔	✔
DF-61	✔	✔	✔	✔	✔	✔
DF-62	✔	✔	✔	✔	✔	✔
DF-63	✔	✔	✔	✔	✔	✔
DF-64	✔	✔	✔	✔	✔	✔
DF-65	✔	✔	✔	✔	✔	✔
DF-66	✔	✔	✔	✔	✔	✔
DF-67	✔	✔	✔	✔	✔	✔
DF-68	✔	✔	✔	✔	✔	✔
DF-69	✔	✔	✔	✔	✔	✔
DF-70	✔	✔	✔	✔	✔	✔
DF-71	✔	✔	✔	✔	✔	✔
DF-72	✔	✔	✔	✔	✔	✔

✔ in stock ✔ on order

MOQ and Lead Time contact sales representative

Installation

PET Panels can be installed on walls in the office environment. Panels can be customized into different patterns, clouds, tiles and more. PET Panels are also tacable for a multipurpose solution in office spaces or educational facilities. For instructions on how to install panels in a variety of ways, see the PET Panels Installation Guide.



▲ **Acoustic Art Wall** | DF-59 Rust Brown, DF-52 Autumn Orange, DF-09 Smoke Grey

Write to us to inquire about the possibility of custom designs.

✉ contact@defelt.com

DeFelt®

DO YOU HAVE ANY QUESTIONS? CONTACT US!

contact@defelt.com

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