

# Insulation by Nature



**Fillings for dry-screeds, thermal- and sound-insulation by natural expanded clay**

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|---|--|---|---|
| <p><b>FIBOTHERM</b><br/><i>Trockenschüttung</i></p> <ul style="list-style-type: none"> <li>• good load-transfer</li> <li>• good thermal insulation</li> <li>• sound insulating</li> </ul> | <p><b>FIBOTHERM</b><br/><i>Trockenschüttung leicht</i><br/>for larger installation height</p> <ul style="list-style-type: none"> <li>• very good load-transfer</li> <li>• good thermal insulation</li> <li>• sound insulating</li> </ul> | <p><b>FIBOTHERM</b><br/><i>Hohlraumschüttung</i><br/>cavity-filling,<br/>non-load-bearing</p> <ul style="list-style-type: none"> <li>• good thermal insulation</li> <li>• sound insulating</li> </ul> | <p><b>FIBOPHON</b><br/><i>Schallschutzschüttung</i><br/>higher bulk-density for sound insulation</p> <ul style="list-style-type: none"> <li>• good load-transfer</li> <li>• very good sound-insulating performance</li> <li>• thermal insulation</li> </ul> |
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## Technical data

grain size	[mm]	1–5 round and crushed	4–10 round and crushed	8–20 round	0–2 round and crushed
thermal conductivity	[W/mK]	$\lambda = 0,100$	$\lambda = 0,110$	$\lambda = 0,098$	$\lambda = 0,130$
bulk density	[kg/m <sup>3</sup> ]	approx. 450	approx. 400	approx. 310	approx. 600
compaction under load case (5 kN/m <sup>2</sup> )	[%]	< 1	< 1	only for non-load-bearing constructions	< 1
compressive strength under 10% compaction	[t/m <sup>2</sup> ]	60	50	only for non-load-bearing constructions	80
permissible installation height	[cm]	1,5–10*	3–20*		0,5–5*
defined moisture	[Vol. %]	max. 1,5	max. 1,5	max. 1,5	max. 1,5
fire hazard according to DIN 4102		A1	A1	A1	A1
approval	MPVA, Neuwied Inst. für Schall- und Wärmeschutz, Essen	•	•	•	•
Environmental Label RAL UZ 132		•	•	•	•
amount required for 1 cm fill height	[l/m <sup>2</sup> ]	10	10	10	10
delivery	[bags on pallet]	36 à 50 l	36 à 50 l	36 à 50 l	30 à 50 l
EAN-No.		40 26722 124509	40 26722 114852	40 26722 281653	40 26722 120259

CE-certified according to EN 14063-1

\* in dry-screed-constructions



**BLAUER ENGEL**  
DAS UMWELTZEICHEN

[www.blauer-engel.de/uz132](http://www.blauer-engel.de/uz132)

- emissionsarm
- geringer Schadstoffgehalt
- in der Wohnumwelt gesundheitlich unbedenklich

The expanded-clay grains cause, very easy and system-independent, best sound- and thermal-insulation.



## FIBO EXCLAY

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