



PENHAS DOURADAS
PORTUGAL

Burel

100% wool | 100% Portuguese

Technical Information

- **Properties and characteristics:**

100 % wool

Woven

Boiled felted

Fire resistance

Temperature and acoustic resistance

Water resistance

Anti-Static

Resistant

Flexible

Natural

Agro-Product

- **Thermal Conductivity:**

EN12667:2001 Thermal resistance ISO 8301:1991

Thermal resistance (m².C/W) : 0,51 Conductivity

(w/(m.°C)) : 0,0476

- **Abrasion resistance:**

Abrasion resistance (martindale) / EN ISO 12947-2:1998 + AC:2006

Test conditions: applied pressure (kPa) - 12ⁱ

Conditioned environment: 20+/-2oC e 65+/-4% H.R.

Cycles number: N^o de revoluções maior que 60 000

- **Fire performance: C-s2,d0**

The classification was made according to clause 11 of the European standard EN 13501-1: 2007 + A1: 2009, September 2009.

Rating C-s2, d0

The product Burel, in relation to its reaction to fire performance is rated as follows: C

Further regarding smoke production classification is: S2

The additional classification in relation to the fall of flaming droplets or particles is: d0

- **Burel Composition:**

100% Wool

- **Burel Chemical composition:**

Burel approximate elemental composition:

Carbon (C) 50%

Hydrogen (H) 7%

Oxygen (O) 21%¹

Nitrogen (N) 17%

Sulphur (S) 5%

Wool fibres contain keratin, a sulphur-rich protein. Sulphur is only found in this type of fibre.

- **Light-fastness:**

We do not have tests, we recommend the same precautions as with other tissues, Burel has the same performance, and natural colours (brown, pearl and sarrubeco) do not suffer from colour changes.

- **Peeling:**

Rate: 4-5
Washing programme Iso 6330:2012,
4M (40°C)
force applied 180

- **Weight:**

600 gr / lm width 150 cm
800 gr/lm width 140 cm
1100 gr/lm width 140 cm

- **Recyclable:**

Is total recyclable - biodegradable
Is an agro-product (wool),
Could use by fertilizer

- **Maintenance:**

Burel is easily maintained. The fibre structure repels dirt and allows for fast cleaning and drying after accidental spilling. Carpets can be kept clean and as new simply by regular vacuum cleaning.

It is possible to machine wash burel fabrics using the wool program at a recommended temperature of 40°C.

For ironing, steam ironing is recommended using the wool setting – steam iron.

- **Acoustic absorption :**

Different patterns and applications has a different results.

All tests was made in concrete floor without any space between the fabric and the concrete.

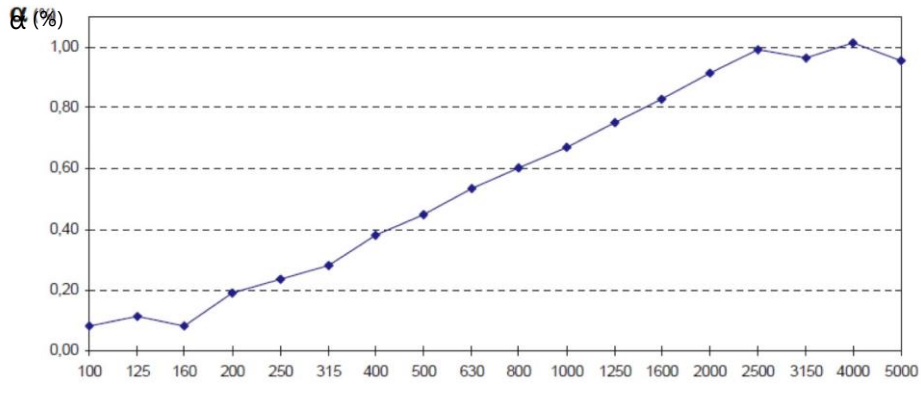
The results made in walls and including a panel structure will be vastly superior.

All tests with different applications in different patterns are being carried out.

Example plain fabric and “favos” pattern:

Plain Burel Fabric:

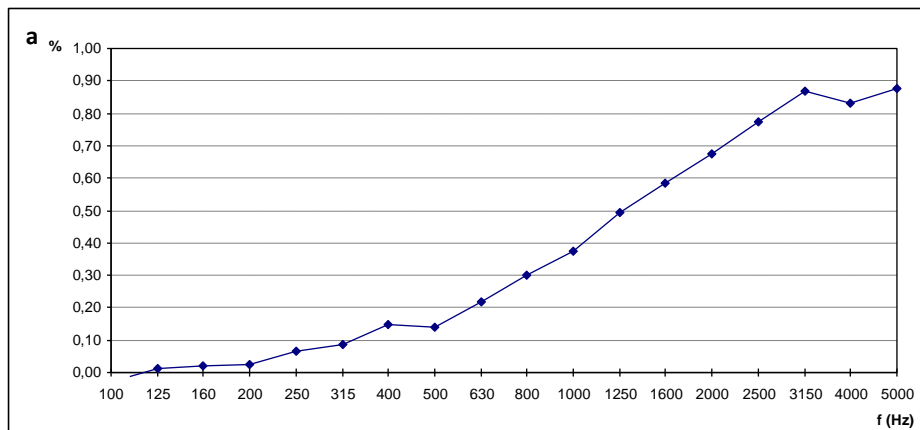
Determination of acoustic absorption coefficient according to ISO 11654:1997



$\alpha_w =$
0,45 Classe:
D
NRC =
0,57

Characteristic curve of the sound absorption f (Hz)

Favos Burel Pattern:



$\alpha_w =$
0,25
Classe E