



## INOIS® TS

### Acoustic element

**Sustainable and stylish trend product from the eurolpac INOIS® acoustic family**

**The fleece used consists of 50% recycled PET**

The acoustic effect of the INOIS® TS provides a unique and homely atmosphere, in commercial as well as in the private sector. The combination of fleece and MDF slats can already be lacquered or refined covered with hard wax.

The panels fit ideally into all new and old buildings or remedial measures. The slat look makes the room appear deeper, larger and provides a modern eye-catcher. The result is reduced reverberation and a calming indoor climate.



#### Construction and product description of the variants:

Fleece:	approx. 10 mm black or grey, (hardly inflammable B-s1,d0) – white on request
Slats:	12 mm MDF panel (natural or black) + veneer usually 0.6mm Edges are slightly broken
Slat width:	27 mm / distance 13 mm – other dimensions possible on request
Veneer:	Smoked oak, American walnut, European oak, fir, ash, maple – More than 140 types of wood possible on request - backing paper on the back.
Surfaces:	hard wax, UV lacq matt, raw untreated, digital printing,
Structures:	rough cut, brushed abrasive, planewave etc.
Total thickness:	approx. 22 mm
Element format:	3000 x 600 mm, 2780 x 600 mm, 2400 x 600 mm – other formats on request

Vertrieb und Beratung:

...das beste aus holz!



**Assembly proposal:**

The INOIS® TS panel is fitted to suit the given space. This can be done horizontally or vertically. The following variants adapted on site can be implemented for this purpose:

- Substructure is recommended to be approx. 30-60mm in frame construction or align vertical battens at a distance of 300mm with a spirit level and attach to the wall according to the structural conditions.
- Additional paneling with mineral wool increases the acoustic insulation effect (see Test2). It should be noted here that the walls must be clean and dry.
- Fasten with visible screws (possibly drywall screws with black heads) through the black PET fleece to the substructure. Adjust the color of the screw head for gray or white fleece.
- Panel hanging systems support rigidity and prevent warping caused by climatic changes. The distance should be chosen every 500mm horizontally.  
The systems are screwed to the slats through the fleece on the back of the INOIS® TS.
- Full-surface adhesions are to be matched to the structural situation.



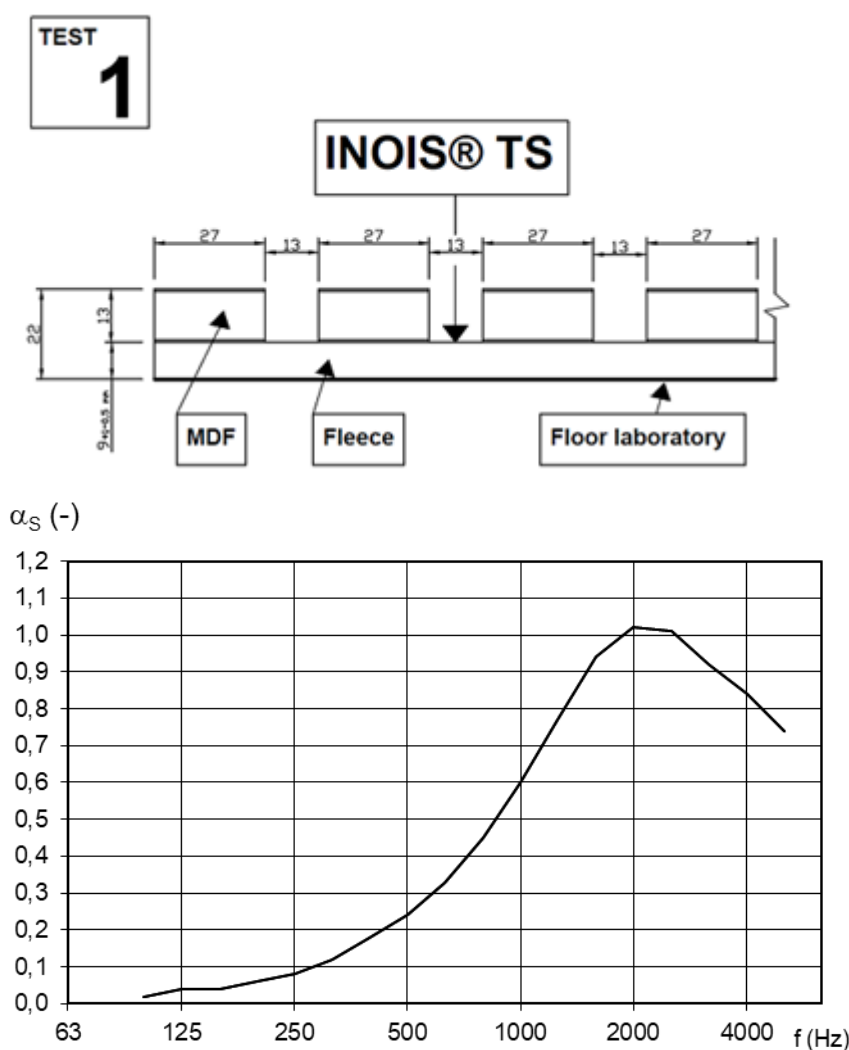
## Acoustic efficiency:

### Test method used in Test 1

Measurement of the sound absorption coefficient according to ČSN EN ISO 354, EN ISO 11654.

Measured value	Construction	Standard	Evaluation
of the sound absorption coefficient	<b>TEST 1</b> Acoustic panel INOIS® TS, test sample No. 415600712/1a	EN ISO 11654	$\alpha_w = 0.30$ (MH) Sound absorption class D
		ASTM C423	NRC = 0.50   SAA = 0.48

Frequency (Hz)	$\alpha_s$ (-)
100	0.02
125	0.04
160	0.04
200	0.06
250	0.08
315	0.12
400	0.18
500	0.24
630	0.33
800	0.45
1000	0.60
1250	0.77
1600	0.94
2000	1.02
2500	1.01
3150	0.92
4000	0.84
5000	0.74



Vertrieb und Beratung:

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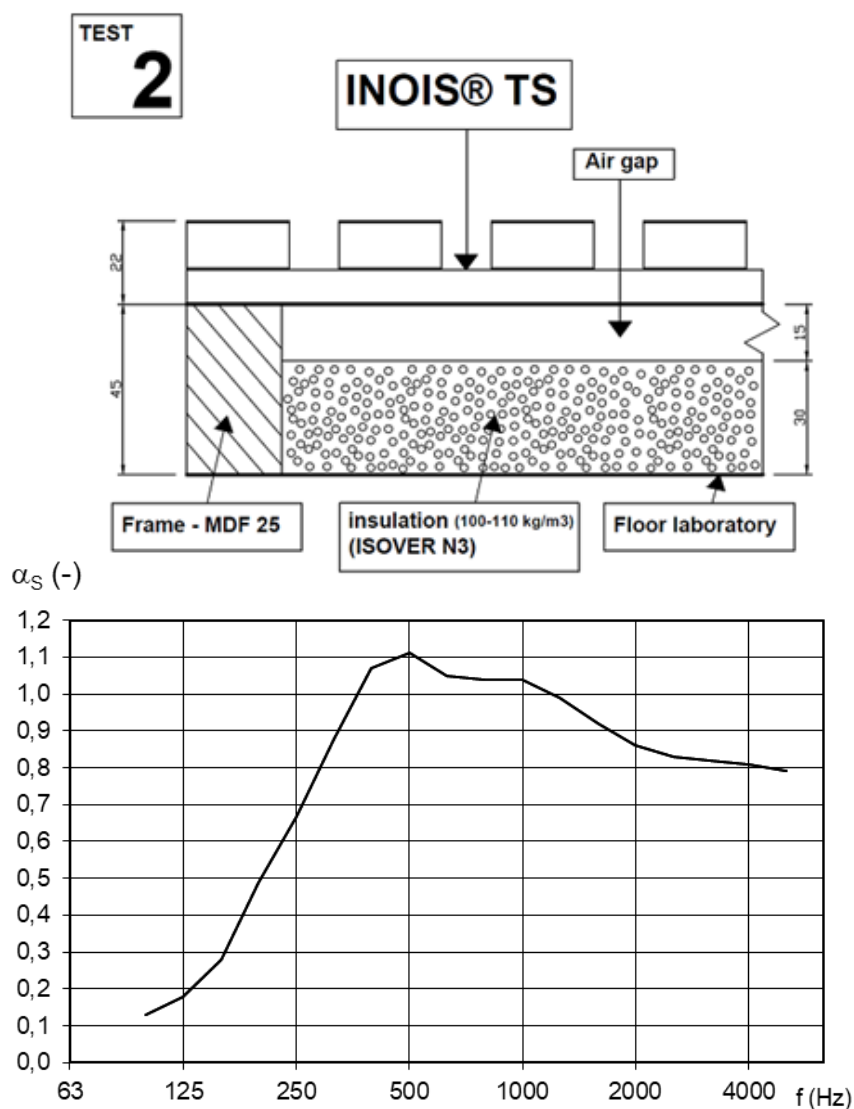


## Test method used in Test 2

Measurement of the sound absorption coefficient according to ČSN EN ISO 354, EN ISO 11654.

Measured value	Construction	Standard	Evaluation
of the sound absorption coefficient	<b>TEST 2</b> Acoustic panel INOIS® TS, 45mm thick frame with 30mm thick mineral wool insulation, test sample No. 415600712/1b	EN ISO 11654	$\alpha_w = 0.90$ <b>Sound absorption class A</b>
		ASTM C423	<b>NRC = 0.90    SAA = 0.91</b>

Frequency (Hz)	$\alpha_s$ (-)
100	0.13
125	0.18
160	0.28
200	0.49
250	0.67
315	0.88
400	1.07
500	1.11
630	1.05
800	1.04
1000	1.04
1250	0.99
1600	0.92
2000	0.86
2500	0.83
3150	0.82
4000	0.81
5000	0.79



Vertrieb und Beratung:

...das beste aus holz!