

**TEST LABORATORY  
AT SOLAR PROJECT LTD**

Sofia 1220, 8 "Iliensko shose" str.  
tel.: +3592/8109 127 +3592/8109 155  
fax: +3592/8109 131  
e-mail: laboratory@solarproject.bg  
www.labsp.bg



**SOLAR PROJECT**

**ЛАБОРАТОРИЯ ЗА ИЗПИТВАНЕ  
КЪМ СОЛАР ПРОДЖЕКТ ООД**

София 1220, ул. Илиенско шосе "8"  
тел.: 02/8109 127 02/8109 155  
факс: 02/8109 131  
e-mail: laboratory@solarproject.bg  
www.labsp.bg

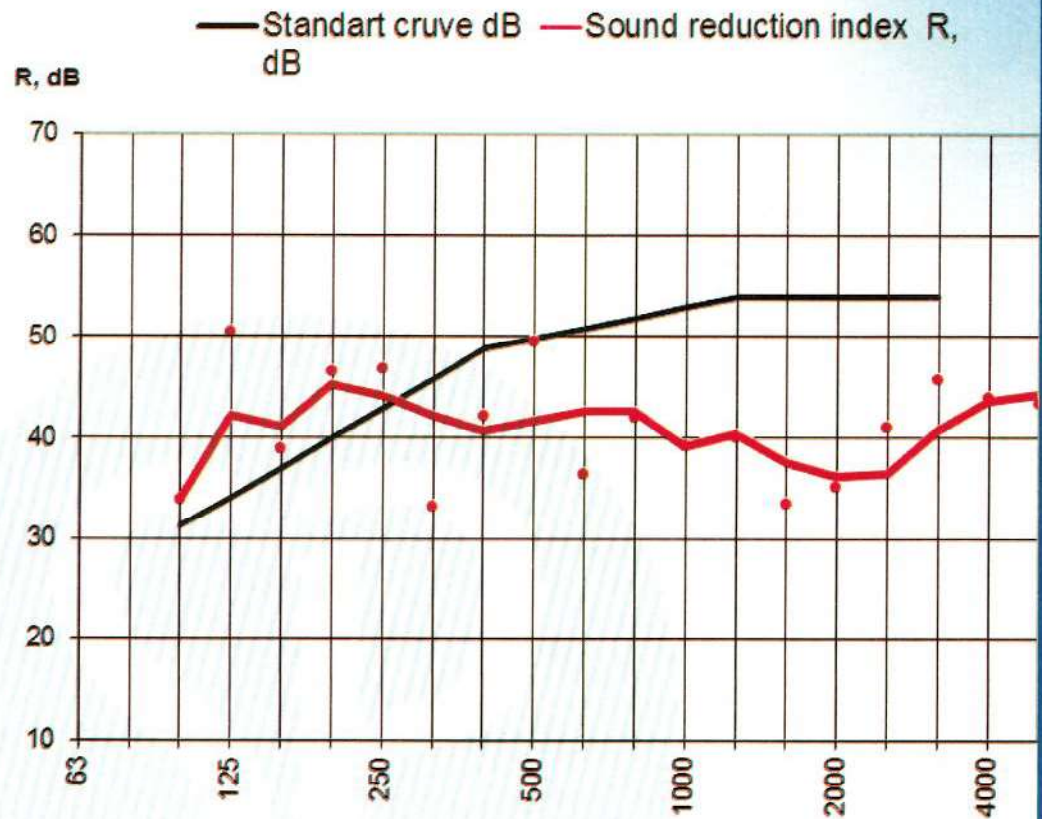
## TEST REPORT

**№ 04/11.01.2017**

1. **Doors and windows** AL Window - „ETEM E45 “.
  
2. **Applicant of the test** Request No 02/ 04.01.2017  
ETEM Bulgaria  
119A Iliyantzi Blvd., Sofia
  
3. **Test methods:** BDS EN ISO 10140-2
  
4. **Date of receipt of test specimens in the laboratory** 04.01.2017
  
5. **Quantity of test samples:** 1 number Window - ETEM "E-45"
  
6. **Date of the test** 05.01.2017



Frequency f Hz	Ln one-third octave dB
50	-
63	-
80	-
100	31.2
125	34.5
160	37.0
200	39.9
250	42.8
315	45.8
400	48.8
500	49.4
630	50.1
800	51.4
1000	52.5
125	53.5
600	53.0
2000	53.3
2500	53.6
3150	53.1
4000	31.2
5000	34.1



Legend: R-index, volume down, dB  
f - frequency, Hz

Classification in accordance with ISO 717-1:

**R<sub>w</sub> (C;Ctr) = 50 (-1; -7)dB** C50-3150 = (-2,0) dB; C50-5000 = (-1.0) dB; C100-5000= (-1.0)dB

Evaluation based on results from laboratory measurements obtained engineering method:

Ctr50-3150 = (-4.0) dB; Ctr50-5000 = (-4.0) dB; Ctr100-5000 = (-3.0) dB