

## Testergebnisse

(nach US-Index)

### Schalldämmung

Conducted by	Intertek Testing Services NA, Inc. 3933 US Route 11, Cortland, NY 13045-0950
In accordance to	ASTM E492-90, E 989-89
Results	IIC = 60    STC = 54

### Entflammbarkeit

Conducted by	Commercial Testing Co. Dalton GA 30720
In accordance to	ASTM E84-03b
Results	Flame Spread Index = 35 Smoke Developed Index = 50

### R-Wert

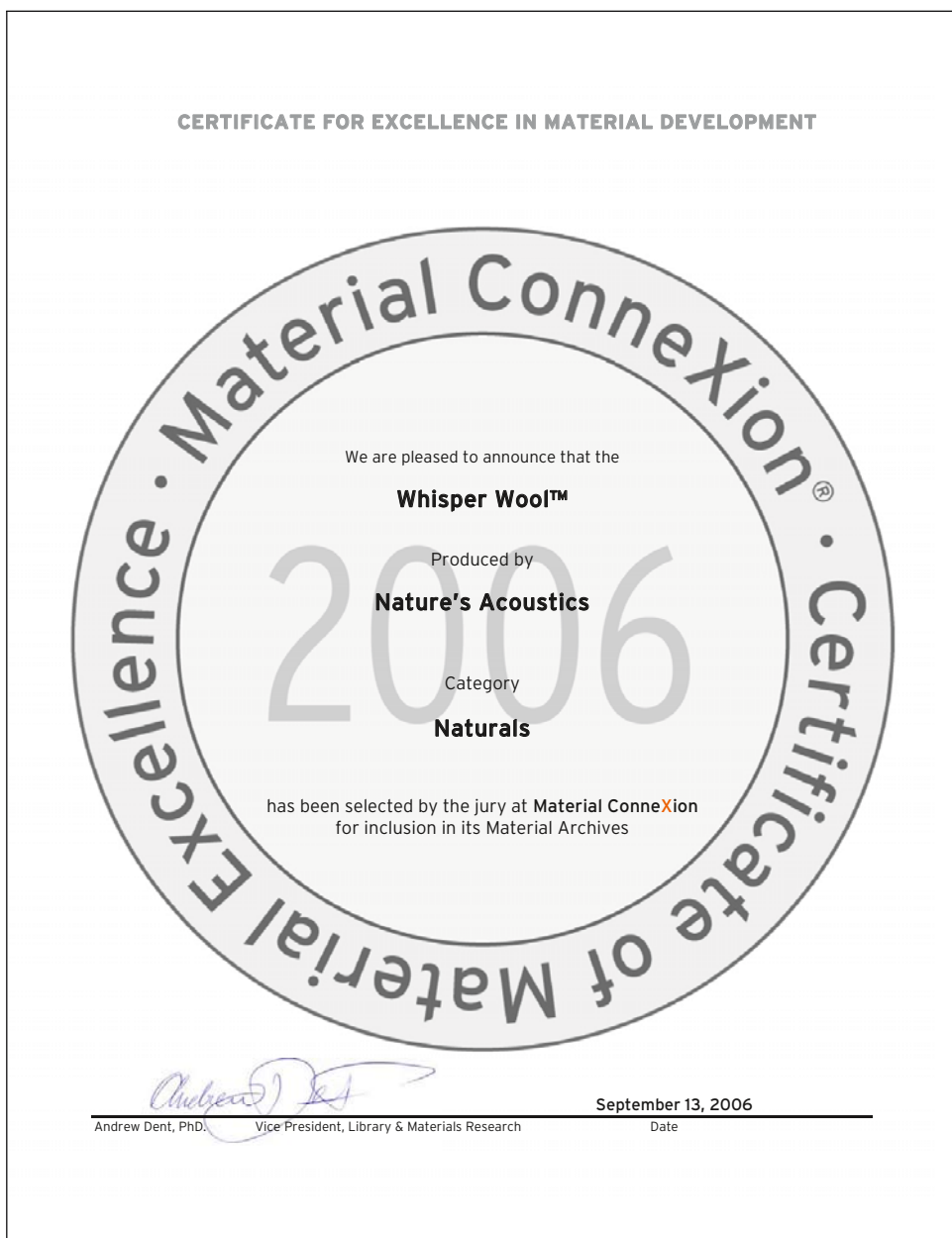
Conducted by	Commercial Testing Co. Dalton GA 30720
In accordance to	ASTM C 158
Results	R = 0.65 K = 0.2171



## Urkunde der „Material ConneXion®“

für innovative Produktentwicklung 2006 (MC# 5352-01)

Die Materialbibliothek Material ConneXion® gilt heute als weltweit renommierte Informationsquelle für neue, zukunftsweisende Materialien und Verarbeitungsprozesse. Sie umfasst über 3.000 Materialmuster der Produktkategorien: Keramik, Glas, Metalle, Polymere, Materialien auf Kohlenstoff- und Zementbasis, sowie Naturmaterialien und Derivate von Naturmaterialien.



## Gutachten


### über das Schalldämmungs-Verhalten von *Whisper Wool* (1)

Die Versuchsreihe wurde durchgeführt und bewertet von:

Intertek Testing Services NA, Inc. 3933 US Route 11, Cortland, NY 13045-0950

#### **Ergebnis:**

***Whisper Wool (unter Markenlaminat verlegt) vermindert Tritt- und Gehschall erheblich: Trittschallverbesserung bis 21 db, Halbierung des Gehschalls***

 <p>INTERTEK ETL SINCE 1896</p>	<p><b>REPORT</b></p> <p><b>Intertek ETL SEMKO</b></p> <p>3933 US ROUTE 11 CORTLAND, NEW YORK 13045</p>
Order No. 3055167	Revised Issue Date: August 15, 2006 Original Issue Date: February 18, 2004
REPORT NO. 3055167-003	
<b>IMPACT SOUND TRANSMISSION TEST AND CLASSIFICATION OF [REDACTED] LAMINATE FLOORING OVER A 4 MIL PLASTIC MOISTURE BARRIER OVER WHISPER WOOL W285 UNDERLAYMENT ON A SIX INCH CONCRETE SLAB FLOOR/CEILING ASSEMBLY</b>	
RENDERED TO	
NATURE'S ACOUSTICS, INC. 80 OLD EAST RD. CHATSWORTH, GA 30705	
Revision Note: Change in name and description.	
<b>INTRODUCTION</b>	
This report gives the results of an Impact Sound Transmission test on [REDACTED] Laminate Flooring over a 4 Mil Plastic Moisture Barrier over Whisper Wool W285 Underlayment. The flooring, plastic and underlayment were selected and supplied by the client and received at the laboratories on February 13, 2004. The samples appeared to be in new, unused condition upon arrival.	
<b>AUTHORIZATION</b>	
Intertek Quote No. 14280799 signed by Tim Young.	
<b>TEST METHOD</b>	
The specimen was tested in general accordance with the American Society for Testing and Materials designation ASTM E492-90 (Re-approved 1996), "Standard Test Method for Laboratory Measurement of Impact Sound Transmission through Floor-Ceiling Assemblies Using the Tapping Machine". It was classified in accordance with ASTM E989-89 (Re-approved 1999), entitled, "Standard Classification for Determination of Impact Insulation Class (IIC)". Due to the size of the receiving room, the requirements of Section 9.4.4 cannot be completely met.	
An independent organization testing for safety, performance, and certification.	
<small>This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party other than to the Client in accordance with the agreement. For any fees, expenses or damages incurred by the use of this report, only the Client is authorized to copy or distribute this report and then only in its entirety. Any use of the Intertek name or one of its logos for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. Measurement uncertainty budgets have been determined for applicable test methods and are available upon request.</small>	

Fortsetzung > 2

## Gutachten

### über das Schalldämmungs-Verhalten von *Whisper Wool* (2)

#### GENERAL

The method is designed to measure the impact sound transmission performance of a floor-ceiling assembly, in a controlled laboratory environment. A standard tapping machine (B & K Type 3204) was placed at four positions on a test floor that forms the horizontal separation between two rooms, one directly above the other. The data obtained was normalized to a reference room absorption of 10 square meters in accordance with the test method.

The standard also prescribes a single-figure classification rating called "Impact Insulation Class, IIC" which can be used by architects, builders and code authorities for acoustical design purposes in building construction.

The IIC is obtained by matching a standard reference contour to the plotted normalized one-third octave band sound pressure levels at each test frequency. The greater the IIC rating, the lower the impact sound transmission through the floor-ceiling assembly.

#### DESCRIPTION OF THE FLOOR/CEILING ASSEMBLY

The floor/ceiling assembly system consisted of a 6 inch thick concrete floor with a drop ceiling below forming the horizontal separation between two rooms, one directly above the other. The drop ceiling consisted of 14 inch deep steel bar joists spaced 38 inches on center. The ceiling construction consisted of 2 x 4 inch wood bolted to the bar joists. The 2 x 4 inch wood was spaced 24 inches on center. Resilient channels (1/2 inch single leaf) were positioned on 16 inch centers between the furring strips and the 1/2 inch gypsum board. Sound attenuation batts (U.S.G. Thermofiber), four (4) inches in thickness were placed between the joists in the formed cavity. The receiving room below measured 1440 cubic feet.

#### DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of Pergo Laminate Flooring over a 4 mil thick Plastic Moisture Barrier over Whisper Wool W285 Underlayment.

#### RESULTS OF TEST

The data obtained in the room below the panel normalized to  $A_0 = 10$  square meters, is as follows:

1/3 Octave Band Center Frequency Hz	1/3 Octave Band Sound Pressure Level dB re 0.0002 Microbar
100	60
125	59
160	58
200	58
250	55
315	52
400	43
500	39
630	34
800	29
1000	25
1250	23
1600	21
2000	18
2500	18
3150	19
Impact Insulation Class (IIC)	60

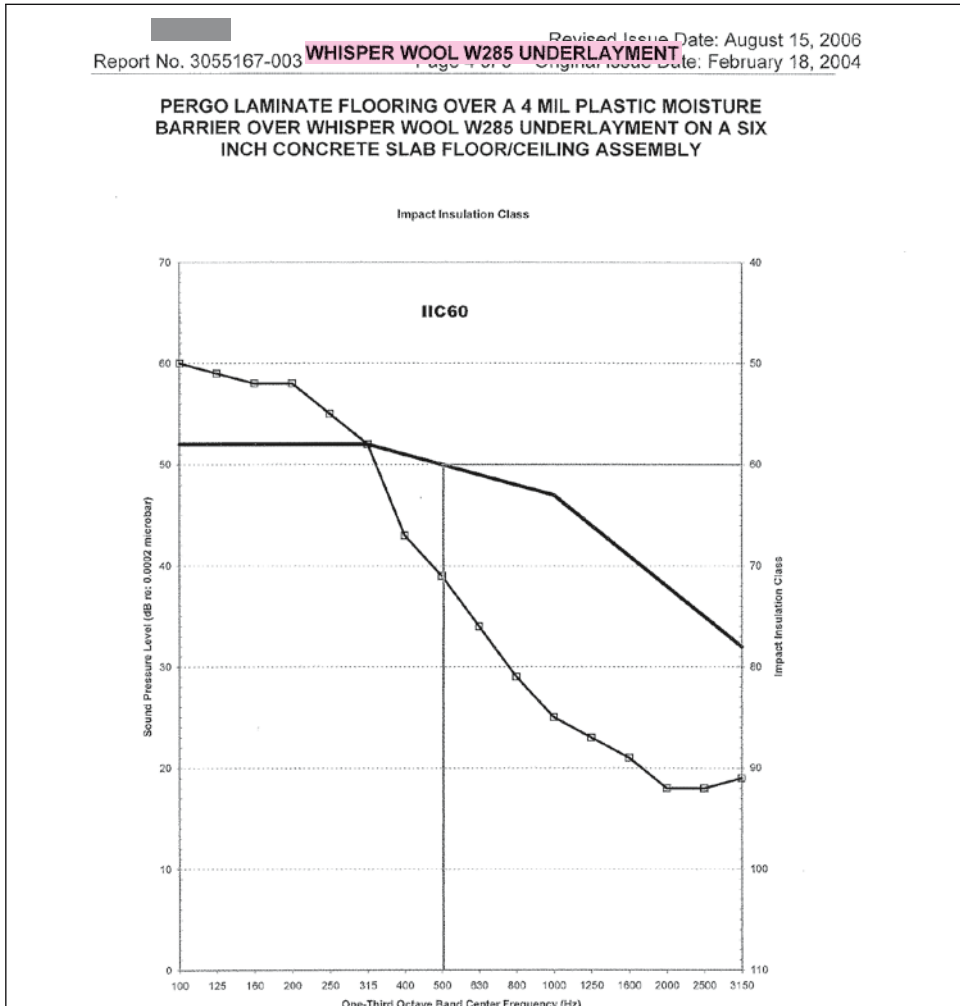
#### PRECISION

For the floor/ceiling construction, the 95% uncertainty level of each tapping machine location is less than 3 dB for the 1/3 octave bands centered in the range from 100 to 400 Hz and less than 2.5 dB for the bands centered in the range from 500 to 3150 Hz.

Fortsetzung > 3

## Gutachten

### über das Schalldämmungs-Verhalten von *Whisper Wool* (3)



#### REMARKS

1. Curing Period: None
2. Ambient Temperature: 70°F
3. Relative Humidity: 35%

#### CONCLUSION

The test method employed for this test has no pass-fail criteria, therefore, the evaluation of the test results is left to the discretion of the client.

Date of Test: February 17, 2004

Report Approved By:

*James R. Kline*

James R. Kline  
Associate Engineer  
Acoustical Testing

Report Reviewed By:

*James H. Nickelsen*

James H. Nickelsen  
Senior Project Engineer  
Acoustical Testing



## Stuhlrollentest

für Laminat mit *Whisper Wool* als Dämmunterlage

Der Test wurde durchgeführt und bewertet von:  
Professional Testing Laboratory Inc.

### Ergebnis:

**Der Test erbrachte für Whisper Wool unter Markenlaminat beste Ergebnisse.**

 <b>Professional Testing Laboratory Inc.</b>	<b>TEST REPORT</b>		<table border="1"> <tr> <td>TEST NUMBER</td> <td>0083020</td> </tr> <tr> <td>DATE</td> <td>03/15/04</td> </tr> </table>	TEST NUMBER	0083020	DATE	03/15/04
	TEST NUMBER	0083020					
DATE	03/15/04						
CLIENT	NATURES ACOUSTICS						
TEST METHOD CONDUCTED	Phillips Roll Chair						
<b>DESCRIPTION OF TEST SAMPLE</b>							
IDENTIFICATION	Laminate Flooring over Submitted Underlayment ( <i>Whisper Wool</i> )						
CONSTRUCTION	Flooring						
<b>GENERAL PRINCIPLE</b>							
<p>This test is designed to determine what effect the action of rolling traffic has on a particular carpet sample. The sample is subjected to the reciprocating action of a chair base which is loaded to 150 pounds total weight. The chair castors are set to cause a random cycling motion resulting in an oval shaped wear pattern. After a predetermined number of cycles, the test sample is given a numerical rating based on the general appearance, with particular attention to pile crushing and matting.</p>							
<b>TEST RESULTS</b>							
TOTAL NUMBER OF CYCLES	APPEARANCE RATING						
25,000	5*						
<b>AATCC RATING KEY</b>							
5	Excellent: No change or negligible change						
4	Good: Slight change due to pile disturbance						
3	Fair: Noticeable wear pattern due to pile crushing or matting						
2	Poor: Loss of texture and thickness due to pile crushing and/or matting, probably not suited for high traffic						
1	Very Poor: Severe pile crushing and/or matting, generally considered unacceptable						
<p>*NOTE: The edges of the laminate along with the tongue and groove were examined for any damage after the 25,000 cycle test. There was no cracking of the décor layer or wear layer with no damage to the tongue, groove, or locking mechanism.</p>							
<p>APPROVED BY: </p> <p><small>\\PH_munip\pl_main_c_drive\MAIN-PPL 2004\TEST2004\natures83020.doc</small></p> <p><small>This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from third constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.</small></p>							