

CERTIFICATE OF COMPLIANCE



Bona
Bona R848

25275-410
Certificate Number

06/08/2010 - 12/09/2015
Certificate Period

Certified - Provisional
Status

UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



Environment

GREENGUARD Certification Criteria for Building Products and Interior Finishes

| Criteria | CAS Number | Maximum Allowable Predicted Concentration | Units |
|--|------------|---|-------------------|
| TVOC ^(A) | - | 0.50 | mg/m ³ |
| Formaldehyde | 50-00-0 | 61.3 (50 ppb) | µg/m ³ |
| Total Aldehydes ^(B) | - | 0.10 | ppm |
| Particle Matter less than 10 µm ^(C) | - | 50 | µg/m ³ |
| 4-Phenylcyclohexene | 4994-16-5 | 6.5 | µg/m ³ |
| Individual VOCs ^(D) | - | 1/10th TLV | - |

- (A) Defined to be the total response of measured VOCs falling within the C₆ – C₁₆ range, with responses calibrated to a toluene surrogate.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



Environment

BONA US

ACOUSTICAL PERFORMANCE TEST REPORT

Bona美國地板聲學性能 測試報告

SCOPE OF WORK 工作範圍及測試方法

ASTM E90 AND ASTM E492 TESTING ON 19.1 MM (3/4") 3-LAYER ENGINEERED
HARDWOOD FLOORING ADHERED WITH BONA R848T ADHESIVE
採用 ASTM E90 和 ASTM E492 方法測試, 使用 19.1 MM(3/4 英寸) 3 層工程硬木地
板配合 博納R848T 粘合劑安裝粘合

SPECIMEN TYPE 樣本類型

152 mm (6") Concrete Slab with Suspended Ceiling 152 mm毫米 (6 英寸) 懸吊的混凝土板

REPORT NUMBER 報告編號

M2466.02-113-11-R1

TEST DATE 測試日期

05/21/21

ISSUE DATE

發佈日期

06/28/21

REVISED DATE

修訂日期

07/14/21

RECORD RETENTION END 記錄保留結束

05/21/25

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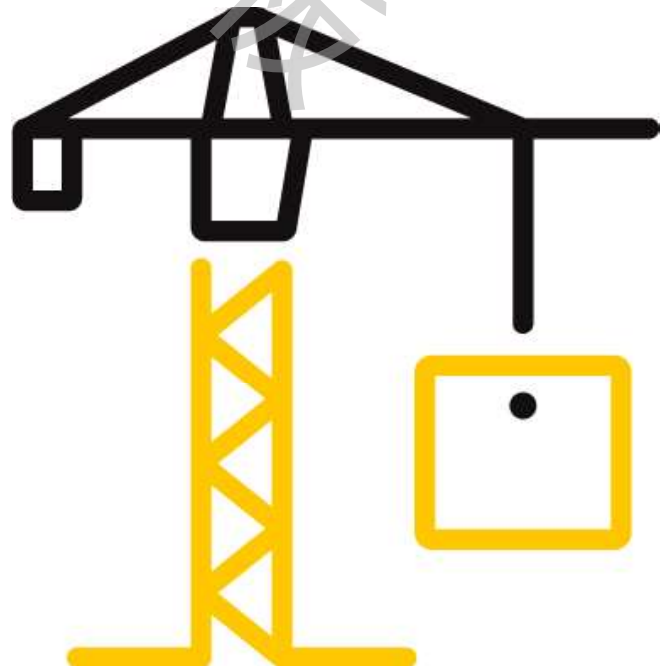
15

DOCUMENT CONTROL

ATI 00629 (03/21/18)

RTTDS-R-AMER-Test-2844

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TEST REPORT FOR BONA US 測試報告
Report No.: M2466.02-113-11-R1 Date: 07/14/21

REPORT ISSUED TO

BONA US

報告發給 **BONA US**

24 Iverness Place, East Suite 100
Englewood, Colorado 80112

SECTION 1

SCOPE 範圍

Intertek Building & Construction (B&C) was contracted by Bona US to perform testing in accordance with ASTM E90 AND ASTM E492 on 19.1 mm 3-Layer Engineered Hardwood Flooring Adhered with Bona R848T Adhesive. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted in the VT test chambers at Intertek B&C located in York, Pennsylvania.


Intertek Building & Construction (B&C) 與 Bona US 簽訂合同，根據 ASTM E90 和 ASTM E492 對使用博納 R848T 地板膠 粘合的 19.1 毫米 (3/4 英寸) 3 層工程硬木地板進行測試。獲得的結果為測試值和使用指定的測試方法確保安全。測試在位於賓夕法尼亞州約克的 Intertek B&C 的 VT 測試室中進行。

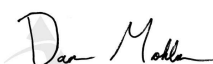
This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. 報告不構成對該產品的認證，也不構成本實驗室的意見或認可。

SECTION 2

SUMMARY OF TEST RESULTS 測試結果總結

| | |
|----------------------|---|
| DATA FILE NO. | M2466.02 |
| SERIES/MODEL: | 19.1 mm (3/4") 3-Layer Engineered Hardwood Flooring Adhered with Bona R848T Adhesive 博納 R848T 粘合劑 粘合的 19.1 毫米 (3/4 英寸) 3 層工程硬木地板進行測試。 |
| STC | 61 分貝 |
| IIC | 61 分貝 |
| HIIC | 60 分貝 |

COMPLETED BY: Cody R. Snyder
Technician Team Leader -
TITLE: Acoustical Testing
SIGNATURE: 
Digitally Signed by: Cody Snyder
DATE: 07/14/21

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DATE: 07/14/21

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TEST REPORT FOR BONA US

Report No.: M2466.02-113-11-R1

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SECTION 3 TEST METHODS 測試方法

The specimen was evaluated in accordance with the following
樣本測試依據以下測試方式：

ASTM E90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions*
建築物隔板的空氣傳播聲音傳輸損失實驗室測量的標準測試方法

ASTM E413-16, *Classification for Rating Sound Insulation* 隔音等級分類

ASTM E492-09(2016)e1, *Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine*
使用攻絲機通過地板-天花板組件進行沖擊聲傳輸實驗室測量的標準試驗方法

ASTM E989-18, *Classification for Determination of Impact Insulation Class (IIC)*
衝擊絕緣等級 (IIC) 測定的分類

ASTM E2235-04 (2020), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods* 用衰減率測定隔音的標準測試方法

ASTM E3222-20, *Standard Classification for Determination of High-Frequency Impact Sound Ratings* 確定高頻衝擊聲音等級的標準分類

SECTION 4**MATERIAL SOURCE/INSTALLATION 材料來源/安裝**

The full test specimen was assembled on the day of testing by B&C. All materials provided by the client were installed on an existing B&C assembly (152 mm (6") Concrete Slab with Suspended Ceiling) utilizing B&C-supplied materials. The assembly was installed in a steel test frame which was installed into the opening between the source and receive rooms in the test chamber. The test frame was isolated from the structure with dense neoprene gasket.

完整的測試樣本在測試當天由 B&C 組裝。客戶提供的所有材料都使用 B&C 提供的材料安裝在現有的 B&C 組件 (152 毫米 (6 英寸) 帶吊頂的混凝土板) 上。該組件安裝在鋼製測試框架中，該測試框架安裝在測試室中聲源室和接收室之間的通道開口中。測試框架被具有緻密氯丁橡膠墊圈的結構體隔離。

The total weight of the floor/ceiling assembly was 4289.4 kg / 9456.1 lbs. B&C will store samples of the test specimen for four years. Photographs of the test specimen are included in the report. A drawing of the test specimen is included in the report.

地板/天花板組件的總重量為 4,289.4公斤/ 9456.1磅。 B&C 會將測試樣品的樣品保存四年。測試樣本的照片包含在報告中。測試樣本的圖紙包含在報告中。

B&C will service this report for the entire test record retention period. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by B&C for the entire test record retention period.

B&C 將在整個測試記錄保留期內提供此報告。 B&C 將在整個測試記錄保留期內，保留測試記錄，例如詳細圖紙、數據表、測試樣本的代表性樣品或其他相關項目文件。

Bona R848T 木地板鋪裝彈性地板膠(免釘)

根據歐洲標準 EN14293 (軟性)，博納 R848T 一種“軟彈性” #單組分矽烷基地板膠 其可降低和緩解地板底層的張力。通常不需要使用底塗。不含水和溶劑，濺出後很容易清除。博納 R848T 具有良好的初始粘合強度，粘固迅速。

用於木地板黏合，黏合劑與空氣中的水分產生化學反應後硬化，硬化的地板膠能夠抵抗膨脹時產生的推力，同時因具有彈性，因此降低了對底層地板的張力。

美國全國公證檢驗股份有限公司 — Intertek Testing Services Ltd.

根據 ASTM E90 和 ASTM E492 隔音測試法

對使用 Bona R848T 地板膠 粘合的 19.1 毫米(3/4 英寸) 3 層工程硬木地板進行測試。結果

R848T 的“隔音 STC 等級是 61 db，可以有效降低樓地板噪音

使用面積：1KG 約可使用 0.3~0.4 坪，3KG 可使用一坪

測試認證：1.SGS 認證 – 無毒無甲醛 2.EC1 歐洲綠色認證系統
3.DIBt 德國建築技術研究所認證

特性：

- 方便攜帶使用的高粘性地板膠(免釘)。
- 可防板翹脫膠問題。
- 可專門用於膠槍塗抹。
- 快速硬化，硬化後的地板膠紋理緊密，幾乎可在所有的基層地面上使用。
- 可運用於戶外塑木固定免釘！ 提供穩定的安裝品質。
- 具有較高的 #抗剪強度，抗剪強度是木地板膠粘劑的重要特性
- 肋排型的穩定性，Bona R848T 地板膠能夠站起來(無坍塌度)來迎合不平坦的表面
- 彈性極佳，因此降低和緩對底層地板的張力，且 #減震減噪。
- 快速設置和固化。木地板結合 R848T - #開放時間約 20 分鐘，2 小時後硬化(木地板無法調整)；24 小時後完全硬化可打磨。

