


# Decking Naturale(Hollow) Technical Sheet

| Model | Photo  | Dimension                       |
|-------|--|---------------------------------|
| UH02  |  | 138 x 22.5 mm<br>(5.5 x 0.9 in) |

| NO. | Property                             | Test Method                                  | Test results   | Remark     |
|-----|--------------------------------------|--|--|------------|
| 1   | Abrasion resistance                  | ASTM D4060-10                                | 33mg(1000cycles)   |            |
| 2   | Brinell hardness                     | EN1534                                       | 8.2N/mm <sup>2</sup>   |            |
| 3   | Boiling test                         | EN15534                                      | Water absorption in weight: 1.10%  |            |
| 4   | Bond Strength                        | EN319  | Average Bond Strength>2.3MPa<br>No obvious abruption and damage after test |            |
| 5   | Coefficient Linear Thermal Expansion | ASTM D696                                    | 38.9×10 <sup>-6</sup> mm/mm °C   |            |
|     |                                      | EN15534                                      | 32.2×10 <sup>-6</sup> K <sup>-1</sup>                                      |            |
| 6   | Creep behaviour                      | EN15534                                      | △ S:4.70mm, △ Sr:2.81mm  | Span:350mm |
| 7   | Content of pentachlorophenol         | CE<br>( EN14041(2004) )                      | 2.99ppm  |            |
| 8   | Creep Recovery                       | ASTM D7032                                   | Creep Recovery after 24h: 93%  |            |
| 9   | Degree of chalking                   | EN15534                                      | Rating 0, no chalking.   |            |
| 10  | Electrostatic behaviour              | EN1815                                       | Body-Voltage: 1.1kV<br>This floor covering can be classified as antistatic |            |
| 11  | Fire Resistance                      | BS476-7                                      | Class 2  |            |
|     |                                      | EN13501-1,<br>EN ISO9239-1,<br>EN ISO11925-2 | Reaction to fire classification:<br>Bfl-s1                                 |            |

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|-----|---|-------------------------------------|--|------------|
| 11  | Fire Resistance   | EN ISO 9239-1<br>EN ISO11925-2      | classification: Bfl-s1   |            |
|     |   | GB8624, GB11785,<br>GB8626, GB20286 | Reaction to fire classification:<br>GB8624B <sub>1</sub> (B-s1, t1)  |            |
|     |   | ASTM E84                            | Flame Spread Index(FSI): 85<br>Smoke Developed Index(SDI): 300   |            |
| 12  | Falling mass<br>impact resistance                         | EN15534                             | Max Crack length(mm): No crack.<br>Max Residual Indentation(mm): 0.14  |            |
| 13  | Formaldehyde<br>Content                                   | EN717-1                             | Non Dectectable  |            |
|     |   | ASTM D6007-14                       | Non Dectectable  |            |
| 14  | Flexural<br>properties                                    | EN15534                             | Bending Strength: 26.2Mpa,<br>Modulus of elasitcity: 3.10Gpa,<br>Maximum load: 4537N,<br>Deflection at 500N: 0.88mm  | Span:350mm |
|     |   | ASTM D6109                          | MOR:24.8MPa, MOE:3495MPa   | Span:368mm |
| 15  | Heavy Metal<br>Content                                    | EPA3051                             | Sb:ND, As:ND, Se:ND, Sn:ND   |            |
| 16  | Heat reversion  | EN15534<br>EN479                    | Test temperature: 100℃ :0.17%  |            |
| 17  | Heat build-up   | EN15534                             | △ T=-2.7℃  |            |
| 18  | Impact<br>Resistance                                      | ASTM D4226                          | MFE>396J   |            |
| 19  | Lead Content Test   | EUNo.628/2015                       | Non Dectectable  |            |
| 20  | Mould resistance  | ASTM G21                            | Rating 0   |            |
| 21  | Moisture Content  | EN15534<br>EN322                    | 0.83%  |            |
| 22  | Moisture<br>resistance under<br>cyclic test<br>conditions | EN15534                             | Original MOR: 27.4Mpa<br>After exposure,<br>MOR: 24.8Mpa, Decrease: 9.6%.  |            |
| 23  | Neutral salt spray<br>test                                | ASTM B117-2011                      | After 200 hours tests, there was<br>no visible change appeared on<br>the surface:<br>Front surface: △ E*=1.22,<br>Grey Scale:4-5<br>Back surface: △ E*=1.06,<br>Grey Scale:4-5 |            |
|     |   | EN15534<br>ISO9227                  | △ E*=1.42,<br>Grey Sale=4 (Exposure 96h)   |            |
| 24  | Pb, Cd, Hg, Cr <sup>6+</sup>                              | RoHs-IEC62321                       | Pb:ND, Cd:ND, Hg:ND, Cr <sup>6+</sup> :ND  |            |

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|-----|---|--|---|--------|
| 25  | Resistance to scratch test                        | ISO4586-2                              | Rate 2  |        |
| 26  | Resistance to indentation                         | EN15534                                | Apply 2000N load Brinell hardness: 72Mpa, Rate of elastic recovery: 65%   |        |
| 27  | Resistance to artificial weathering               | EN15534<br>ISO4892-2                   | After 2000h exposure $\Delta E^*=1.09$ , Grey Sale=4-5  |        |
| 28  | Rockwell Hardness                                 | ASTM D785                              | 78.7R   |        |
| 29  | Slip Resistance                                   | AS/NZS 4586                            | 1. Wet Pendulum Testing:<br>Longitudinal:30; Horizontal:42<br>2. Oil Ramp Testing:<br>Longitudinal:Rating:R11;<br>Horizontal:Rating:R11 |        |
|     |   | CENTS12633(2014)<br>CENTS16165(2012)   | Pendulum Testing:<br>Dry condition: PTV46<br>Wet condition: PTV34   |        |
|     |   | EN15534-1,<br>EN15534-4                | Pendulum test:Longitudinal:44;<br>Horizontal:56<br>Indination plan test:Angle:25.0°,<br>Rating:Class C                                  |        |
|     |   | DIN51130                               | Oil-wet ramp test:<br>Angle:19.7° Rating:R11  |        |
|     |   | DIN51097                               | Wet-load ramp test:<br>Front View:Angle:31.2° Rating:C<br>Back View:Angle:29.0° Rating:C  |        |
|     |   | EN15534<br>CEN/TS15676                 | Pendulum test:Longitudinal:59;<br>Horizontal:69<br>Indination plan test:Angle:38.2°,<br>Rating:Class C                                  |        |
| 30  | Swelling and water absorption (24hours immersion) | EN15534                                | ① Swelling: 0.06% in thickness, 0.03% in width, 0.03% in length.<br>② Water absorption: 0.49%   |        |
| 31  | Swelling and water absorption (28days immersion)  | EN15534                                | ① Swelling: 0.78% in thickness, 0.07% in width, 0.12% in length.<br>② Water absorption: 1.66%   |        |
| 32  | SRI Testing                                       | ASTM C1549<br>ASTM C1371<br>ASTM E1980 | 19  |        |
| 33  | Surface Bond quality                              | EN319                                  | >2.08MPa  |        |

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|-----|----------------------|---------------------------|--|--------|
| 34  | Thermal Resistance   | ASTM C518-2010            | Thermal conductivity: 0.1589W/(m·k)<br>Thermal resistance: 0.0830(m <sup>2</sup> ·k)/W |        |
| 35  | Thermal conductivity | CE<br>( EN14041(2004) )   | 0.19738W/m·K   |        |
| 36  | UV Weathering test   | ASTM G154                 | After 3000 hours test,<br>Grey Scale3, $\Delta E^*=3.56$                               |        |
| 37  | Uplift Resistance    | ICC-ES AC174<br>ASTM E330 | Average ultimate load $\geq 427$ psf   |        |
| 38  | VOC&TVOC             | ASTM D5116-11             | Non Dectectable  |        |
| 39  | Water absorption     | ASTM D1037-<br>12B(24h)   | Water absorption(24h): 0.2%  |        |