

# TECHNICAL DATA SHEET

## MATRIXX ENGINEERED UNDERLAYMENT

|                                                 |                                                                                                                                                                                                  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material:</b>                                | 6 mm (5 ply) & 9mm (7 ply) Plywood; 100% premium hardwood construction                                                                                                                           |
| <b>Glue:</b>                                    | Exterior Grade; Passes APA Boil Test                                                                                                                                                             |
| <b>Formaldehyde:</b>                            | <0.05ppm - Meets California Air Resources Board (CARB) Regulation 93120 phases I & II.                                                                                                           |
| <b>Dimensions:</b>                              | Available in 4' x 4', 4' x 5' & 4' x 8' panel - 6mm and 4' x 4' - 9mm<br>Precision square cut for a TileTite fit. Each panel ultrasonically tested for voids.                                    |
| <b>Nailing Pattern:</b>                         | Each panel is printed with a proprietary nailing pattern for proper installation.                                                                                                                |
| <b>Core:</b>                                    | Rugged solid puncture resistant hardwood core.                                                                                                                                                   |
| <b>Thickness:</b>                               | <ul style="list-style-type: none"> <li>• 6mm (1/4") for vinyl floors and general purpose use.</li> <li>• 9mm (3/8") for ceramic tile areas and where a subfloor build-up is required.</li> </ul> |
| <b>Surface Treatment:</b>                       | Fine sanded face and touch sanded back to provide a smooth surface and consistent thickness.                                                                                                     |
| <b>Moisture Content:</b>                        | 6.5% (50%RH @ 20°C)                                                                                                                                                                              |
| <b>Stain Resistance:</b>                        | Non-staining veneers and ink; compatible with all vinyl floor coverings.                                                                                                                         |
| <b>Density:</b>                                 | 41.8 lbs/cu.ft.                                                                                                                                                                                  |
| <b>*Internal Bond:</b>                          | 375.0 PSI                                                                                                                                                                                        |
| <b>*Modulus of Elasticity:</b>                  | Perpendicular: 796,000 PSI<br>Parallel: 2,048,000 PSI                                                                                                                                            |
| <b>*Compression:<br/>(Crushing Strength)</b>    | 3996 lbs/in <sup>2</sup>                                                                                                                                                                         |
| <b>*Janka Ball Hardness:</b>                    | 1370 lbs.                                                                                                                                                                                        |
| <b>*Thickness Swell:</b>                        |                                                                                                                                                                                                  |
| <b>2-Hour Soak:</b>                             | 4.5%                                                                                                                                                                                             |
| <b>24-Hour Soak:</b>                            | 8.0%                                                                                                                                                                                             |
| <b>*Linear Expansion:</b>                       | Perpendicular % Change: 0.077% @ 50% - 90% Relative Humidity<br>Parallel % Change: 0.086 @ 50% - 90% Relative Humidity                                                                           |
| <b>Thermal Resistance:<br/>(R-Value)</b>        | 6mm - 0.31 ft <sup>2</sup> -hr-°F/BTU<br>9mm - 0.43 ft <sup>2</sup> -hr-°F/BTU                                                                                                                   |
| <b>Flame Spread Rating:</b>                     | 80 - 200                                                                                                                                                                                         |
| <b>Flame Spread Class:</b>                      | Class III or Class C                                                                                                                                                                             |
| <b>Standards:</b>                               | Meets the requirements of:<br>American Plywood Association APA PS 1-07;<br>American Society for Testing and Materials *ASTM D1037;<br>Canadian Standards Association CSA 0153                    |
| <b>Vinyl Manufacturers<br/>Recommendations:</b> | Meets requirements of Armstrong, Congoleum, Mannington and Tarkett.                                                                                                                              |
| <b>Ceramic Tile:</b>                            | 9mm Matrixx meets TCNA F 160-07 for installation of ceramic tile over wood sub-floors.                                                                                                           |
| <b>LACEY ACT:</b>                               | Matrixx Hardwood Underlayment is sourced in compliance with Lacey Act.                                                                                                                           |