



**VC VENTURES RESOURCES SDN. BHD. (1075256-P)**  
 (Formerly known as Memang Kaya Sdn. Bhd.)  
 No. 1428, Lorong Bakau 2, Taman Industri Perabot,  
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**PLYWOOD TECHNICAL DATA SHEET  
 (PERFORMANCE CHARACTERISTIC)  
 MALAYSIAN TROPICAL MEDIUM LIGHT HARDWOOD  
 BBCC PLYWOOD TO BS13986:2004 +A1:2015**

|   |   |                      |                                  |                   |      |
|---|---|----------------------|----------------------------------|-------------------|------|
| <b>Thickness/mm<br/>(EN 324:1993)</b>       | <b>Type</b>   | 3.6mm / 3 plies      |                                  |                   |      |
|   | <b>Min</b>  | 3.10                 | <b>Veneer<br/>Thickness (mm)</b> | <b>Face/ Back</b> | 0.70 |
|   | <b>Max</b>  | 3.60                 |                                  | <b>Short Core</b> | 2.60 |
|   | <b>Lay-up</b>   | -   -                |                                  | <b>Long Core</b>  |      |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |                      |                                  |                   |      |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |                      |                                  |                   |      |
| <b>Squareness</b>                           | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Straightness</b>                         | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Bonding Quality/ durability</b>          |   |                      |                                  |                   |      |
|   | Bonding Class 3   |                      |                                  |                   |      |
| <b>Bending Strength<br/>and Stiffness</b>   | F35/F25   | <b>Result</b>        | F = 61.975 / 57.242              |                   |      |
|   | E140/E90  |                      | E = 18917.333/ 10396.650         |                   |      |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |                      |                                  |                   |      |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                      |                                  |                   |      |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>        | 518.773 kg/m <sup>3</sup>        |                   |      |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                      |                                  |                   |      |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                      |                                  |                   |      |
|   | wet cup   | 70                   | dry cup                          | 200               |      |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                      |                                  |                   |      |
|   | $R = 13 \times lg (m_A) + 14$   |                      |                                  |                   |      |
| <b>Sound absorption coefficient</b>         | EN 13986:2004 +A1:2015 Tab. 10  |                      |                                  |                   |      |
|   | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30 |                                  |                   |      |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                      |                                  |                   |      |
|   | $\lambda = 0.13 \text{ W / (m.K)}$  |                      |                                  |                   |      |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |                      |                                  |                   |      |



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|   |   |                      |                                  |                   |      |
|---|---|----------------------|----------------------------------|-------------------|------|
| <b>Thickness/mm<br/>(EN 324:1993)</b>       | <b>Type</b>   | 6mm / 3 plies        |                                  |                   |      |
|   | <b>Min</b>  | 5.50                 | <b>Veneer<br/>Thickness (mm)</b> | <b>Face/ Back</b> | 0.90 |
|   | <b>Max</b>  | 6.00                 |                                  | <b>Short Core</b> | 4.50 |
|   | <b>Lay-up</b>   | -   -                |                                  | <b>Long Core</b>  |      |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |                      |                                  |                   |      |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |                      |                                  |                   |      |
| <b>Squareness</b>                           | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Straightness</b>                         | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Bonding Quality/ durability</b>          |   |                      |                                  |                   |      |
|   | Bonding Class 3   |                      |                                  |                   |      |
| <b>Bending Strength<br/>and Stiffness</b>   | F15/F35   | <b>Result</b>        | F = 31.723 / 61.936              |                   |      |
|   | E80/E100  |                      | E = 8707.867/ 11503.167          |                   |      |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |                      |                                  |                   |      |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                      |                                  |                   |      |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>        | 502.343 kg/m <sup>3</sup>        |                   |      |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                      |                                  |                   |      |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                      |                                  |                   |      |
|   | wet cup   | 70                   | dry cup                          | 200               |      |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                      |                                  |                   |      |
|   | $R = 13 \times l_g (m_A) + 14$  |                      |                                  |                   |      |
| <b>Sound absorption coefficient</b>         | EN 13986:2004 +A1:2015 Tab. 10  |                      |                                  |                   |      |
|   | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30 |                                  |                   |      |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                      |                                  |                   |      |
|   | $\lambda = 0.13 \text{ W / (m.K)}$  |                      |                                  |                   |      |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |                      |                                  |                   |      |



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 BBCC PLYWOOD TO BS13986:2004 +A1:2015**

|   |   |               |                                  |                   |      |
|---|---|---------------|----------------------------------|-------------------|------|
| <b>Thickness/mm<br/>(EN 324:1993)</b>       | <b>Type</b>   | 9mm / 5 plies |                                  |                   |      |
|   | <b>Min</b>  | 8.50          | <b>Veneer<br/>Thickness (mm)</b> | <b>Face/ Back</b> | 0.90 |
|   | <b>Max</b>  | 9.00          |                                  | <b>Short Core</b> | 2.00 |
|   | <b>Lay-up</b>   | -   -   -   - |                                  | <b>Long Core</b>  | 3.50 |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |               |                                  |                   |      |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |               |                                  |                   |      |
| <b>Squareness</b>                           | ± 1 mm/m  |               |                                  |                   |      |
| <b>Straightness</b>                         | ± 1 mm/m  |               |                                  |                   |      |
| <b>Bonding Quality/ durability</b>          |   |               |                                  |                   |      |
| <b>Bonding Quality/ durability</b>          | Bonding Class 3   |               |                                  |                   |      |
| <b>Bending Strength<br/>and Stiffness</b>   | F10/F30   | <b>Result</b> | F = 28.885 / 67.667              |                   |      |
|   | E40/E100  |               | E = 5254.8 / 10093.817           |                   |      |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |               |                                  |                   |      |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                             |               |                                  |                   |      |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b> | 545.804 kg/m <sup>3</sup>        |                   |      |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm)         |               |                                  |                   |      |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                         |               |                                  |                   |      |
|   | wet cup   | 70            | dry cup                          | 200               |      |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:<br>R = 13 x lg (m <sub>a</sub> ) + 14 |               |                                  |                   |      |
|   | EN 13986:2004 +A1:2015 Tab. 10  |               |                                  |                   |      |
| <b>Sound absorption coefficient</b>         | 250 - 500 Hz: 0.10      1000 - 2000 Hz: 0.30  |               |                                  |                   |      |
|   | EN 13986:2004 +A1:2015 section 5.18   |               |                                  |                   |      |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup><br>λ = 0.13 W / (m.K)  |               |                                  |                   |      |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |               |                                  |                   |      |



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|   |   |                      |                                  |                   |      |
|---|---|----------------------|----------------------------------|-------------------|------|
| <b>Thickness/mm<br/>(EN 324:1993)</b>       | <b>Type</b>   | 12mm / 5 plies       |                                  |                   |      |
|   | <b>Min</b>  | 11.50                | <b>Veneer Thickness<br/>(mm)</b> | <b>Face/ Back</b> | 0.90 |
|   | <b>Max</b>  | 12.00                |                                  | <b>Short Core</b> | 3.50 |
|   | <b>Lay-up</b>   | -   -   -            |                                  | <b>Long Core</b>  | 3.50 |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |                      |                                  |                   |      |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |                      |                                  |                   |      |
| <b>Squareness</b>                           | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Straightness</b>                         | ± 1 mm/m  |                      |                                  |                   |      |
| <b>Bonding Quality/ durability</b>          |   |                      |                                  |                   |      |
| Bonding Class 3                             |   |                      |                                  |                   |      |
| <b>Bending Strength<br/>and Stiffness</b>   | F20/F10   | <b>Result</b>        | F = 36.267/ 33.328               |                   |      |
|   | E60/E50   |                      | E = 6115.917 / 6261.817          |                   |      |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |                      |                                  |                   |      |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                      |                                  |                   |      |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>        | 525.393 kg/m <sup>3</sup>        |                   |      |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                      |                                  |                   |      |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                      |                                  |                   |      |
|   | wet cup   | 70                   | dry cup                          | 200               |      |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                      |                                  |                   |      |
|   | $R = 13 \times l_g (m_A) + 14$  |                      |                                  |                   |      |
| <b>Sound absorption coefficient</b>         | EN 13986:2004 +A1:2015 Tab. 10  |                      |                                  |                   |      |
|   | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30 |                                  |                   |      |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                      |                                  |                   |      |
|   | $\lambda = 0.13 \text{ W / (m.K)}$  |                      |                                  |                   |      |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |                      |                                  |                   |      |



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|   |   |                       |                                  |                   |           |
|---|---|-----------------------|----------------------------------|-------------------|-----------|
| <b>Thickness/mm<br/>(EN 324:1993)</b>       | <b>Type</b>   | 15mm / 7 plies        |                                  |                   |           |
|   | <b>Min</b>  | 14.50                 | <b>Veneer Thickness<br/>(mm)</b> | <b>Face/ Back</b> | 0.90      |
|   | <b>Max</b>  | 15.00                 |                                  | <b>Short Core</b> | 3.50/2.60 |
|   | <b>Lay-up</b>   | -   -   -   -   -   - |                                  | <b>Long Core</b>  | 3.50/0.90 |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |                       |                                  |                   |           |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |                       |                                  |                   |           |
| <b>Squareness</b>                           | ± 1 mm/m  |                       |                                  |                   |           |
| <b>Straightness</b>                         | ± 1 mm/m  |                       |                                  |                   |           |
| <b>Bonding Quality/ durability</b>          | Bonding Class 3   |                       |                                  |                   |           |
| <b>Bending Strength<br/>and Stiffness</b>   | F15/F30   | <b>Result</b>         | F = 38.709 / 57.910              |                   |           |
|   | E15/E90   |                       | E = 7032.967/ 10962.500          |                   |           |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |                       |                                  |                   |           |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                       |                                  |                   |           |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>         | 513.149 kg/m <sup>3</sup>        |                   |           |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                       |                                  |                   |           |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                       |                                  |                   |           |
|   | wet cup   | 70                    | dry cup                          | 200               |           |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                       |                                  |                   |           |
|   | $R = 13 \times l/g (m_A) + 14$  |                       |                                  |                   |           |
| <b>Sound absorption coefficient</b>         | EN 13986:2004 +A1:2015 Tab. 10  |                       |                                  |                   |           |
|   | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30  |                                  |                   |           |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                       |                                  |                   |           |
|   | $\lambda = 0.13 \text{ W / (m.K)}$  |                       |                                  |                   |           |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |                       |                                  |                   |           |



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|                                       |               |                   |                                  |                   |           |
|---------------------------------------|---------------|-------------------|----------------------------------|-------------------|-----------|
| <b>Thickness/mm<br/>(EN 324:1993)</b> | <b>Type</b>   | 18mm / 7 plies    |                                  |                   |           |
|                                       | <b>Min</b>    | 17.5              | <b>Veneer Thickness<br/>(mm)</b> | <b>Face/ Back</b> | 0.90      |
|                                       | <b>Max</b>    | 18.0              |                                  | <b>Short Core</b> | 3.50/2.60 |
|                                       | <b>Lay-up</b> | -   -   -   -   - |                                  | <b>Long Core</b>  | 3.50      |

|   |          |
|---|----------|
| <b>Dimensional Tolerance (EN 324: 1993)</b> |          |
| <b>Length &amp; Width</b>                   | ± 3.5mm  |
| <b>Squareness</b>                           | ± 1 mm/m |
| <b>Straightness</b>                         | ± 1 mm/m |

|                                       |   |                      |                           |
|---------------------------------------|---|----------------------|---------------------------|
| <b>Bonding Quality/ durability</b>    | Bonding Class 3   |                      |                           |
| <b>Bending Strength and Stiffness</b> | F25/F15   | <b>Result</b>        | F = 40.656/ 46.966        |
|                                       | E80/E35   |                      | E = 6178.983 / 7802.850   |
| <b>Type of Glue</b>                   | Phenol Formaldehyde HL-4645   |                      |                           |
| <b>Release of formaldehyde</b>        | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                      |                           |
| <b>Density</b>                        | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>        | 593.734 kg/m <sup>3</sup> |
| <b>Reaction to fire</b>               | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                      |                           |
| <b>Water vapour permeability</b>      | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                      |                           |
|                                       | wet cup   | 70                   | dry cup 200               |
| <b>Airborne sound insulation</b>      | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                      |                           |
|                                       | $R = 13 \times l_g (m_A) + 14$  |                      |                           |
| <b>Sound absorption coefficient</b>   | EN 13986:2004 +A1:2015 Tab. 10  |                      |                           |
|                                       | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30 |                           |
| <b>Thermal conductivity</b>           | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                      |                           |
|                                       | $\lambda = 0.13 \text{ W / (m.K)}$  |                      |                           |
| <b>Content of pentachlorophenol</b>   | EN 13986:2004 +A1:2015 section 5.18   |                      |                           |



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|   |   |                           |                              |                   |                  |
|---|---|---------------------------|------------------------------|-------------------|------------------|
| <b>Thickness/mm (EN 324:1993)</b>           | <b>Type</b>   | 25mm / 9 plies            |                              |                   |                  |
|   | <b>Min</b>  | 24.5                      | <b>Veneer Thickness (mm)</b> | <b>Face/ Back</b> | 0.90             |
|   | <b>Max</b>  | 25.0                      |                              | <b>Short Core</b> | 3.50/2.60        |
|   | <b>Lay-up</b>   | -   -   -   -   -   -   - |                              |                   | <b>Long Core</b> |
| <b>Dimensional Tolerance (EN 324: 1993)</b> |   |                           |                              |                   |                  |
| <b>Length &amp; Width</b>                   | ± 3.5mm   |                           |                              |                   |                  |
| <b>Squareness</b>                           | ± 1 mm/m  |                           |                              |                   |                  |
| <b>Straightness</b>                         | ± 1 mm/m  |                           |                              |                   |                  |
| <b>Bonding Quality/ durability</b>          |   |                           |                              |                   |                  |
|   | Bonding Class 3   |                           |                              |                   |                  |
| <b>Bending Strength and Stiffness</b>       | F20/F30   | <b>Result</b>             | F = 37.964 / 52.545          |                   |                  |
|   | E50/E90   |                           | E = 4960.317 / 9559.617      |                   |                  |
| <b>Type of Glue</b>                         | Phenol Formaldehyde HL-4645   |                           |                              |                   |                  |
| <b>Release of formaldehyde</b>              | Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)                     |                           |                              |                   |                  |
| <b>Density</b>                              | ≥ 500kg/m <sup>3</sup>  | <b>Result</b>             | 526.456 kg/m <sup>3</sup>    |                   |                  |
| <b>Reaction to fire</b>                     | D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m <sup>3</sup> and thickness ≥ 9mm) |                           |                              |                   |                  |
| <b>Water vapour permeability</b>            | Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m <sup>3</sup>                 |                           |                              |                   |                  |
|   | wet cup   | 70                        | dry cup                      | 200               |                  |
| <b>Airborne sound insulation</b>            | Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:                               |                           |                              |                   |                  |
|   | $R = 13 \times lg (m_A) + 14$   |                           |                              |                   |                  |
| <b>Sound absorption coefficient</b>         | EN 13986:2004 +A1:2015 Tab. 10  |                           |                              |                   |                  |
|   | 250 - 500 Hz: 0.10  | 1000 - 2000 Hz: 0.30      |                              |                   |                  |
| <b>Thermal conductivity</b>                 | Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m <sup>3</sup>                |                           |                              |                   |                  |
|   | $\lambda = 0.13 \text{ W / (m.K)}$  |                           |                              |                   |                  |
| <b>Content of pentachlorophenol</b>         | EN 13986:2004 +A1:2015 section 5.18   |                           |                              |                   |                  |