

# Millboard Plas-Pro

100 x 100 x 3000mm, Plas-Pro post (P1010B300)

125 x 50 x 3000mm, Plas-Pro joist (P1205B300)

50 x 50 x 2400mm, Plas-Pro batten (P0505B240)

30 x 60 x 2800mm, Plas-Pro batten (P0603H280)

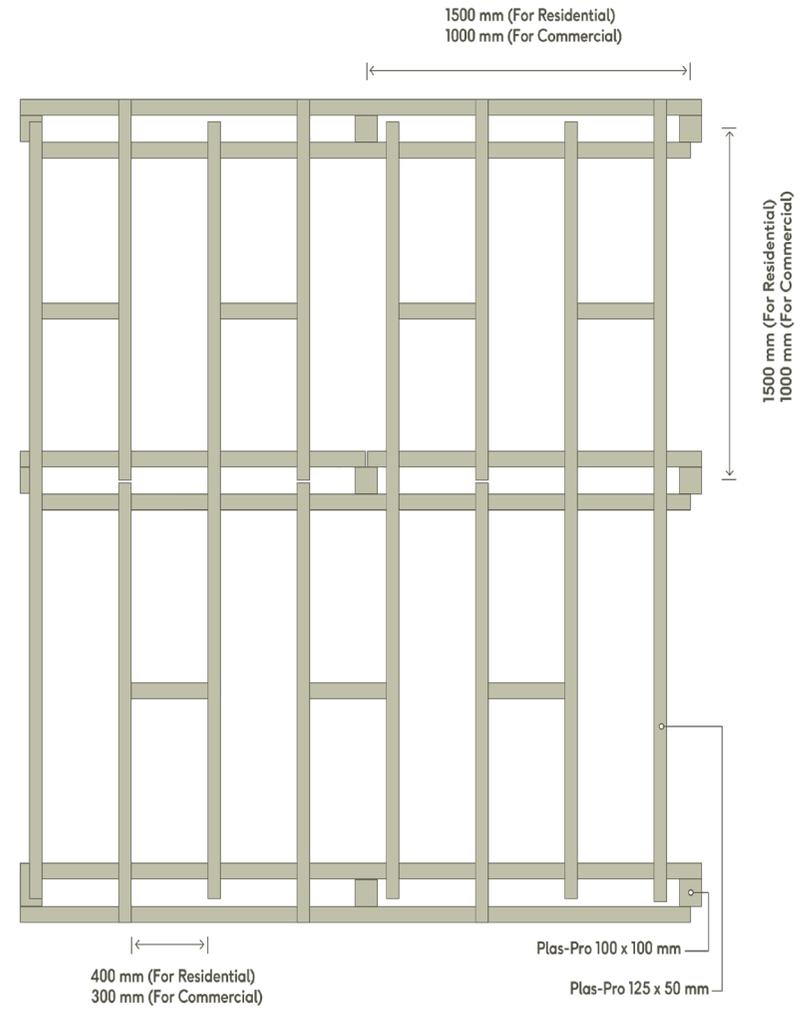
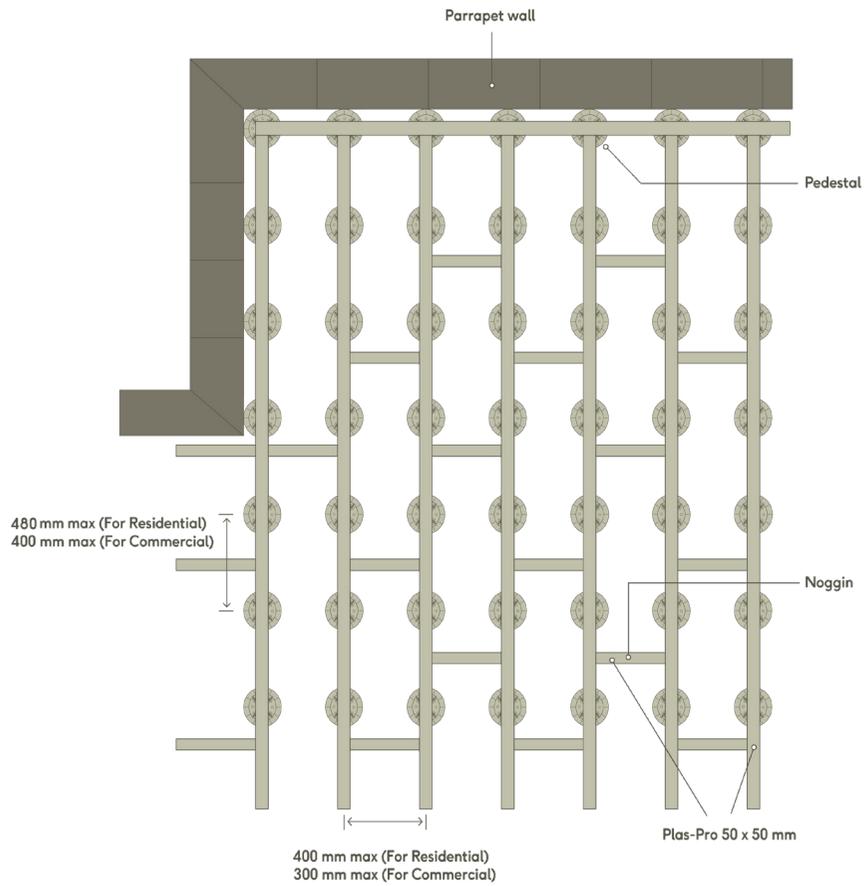
## Weights and Measures

|                               |                    |
|-------------------------------|--------------------|
| Post Dimensions (H x W x L)   | 100 x 100 x 3000mm |
| Weight Per Length             | 27.9kg             |
| Joist Dimensions (H x W x L)  | 125 x 50 x 3000mm  |
| Weight Per Length             | 20.9kg             |
| Batten Dimensions (H x W x L) | 50 x 50 x 2400mm   |
| Weight Per Length             | 5.6kg              |
| Batten Dimensions (H x W x L) | 30 x 60 x 2800mm   |
| Weight Per Length             | 4.7kg              |

The information in this document was correct at the time of going to print, due to our culture of continuous improvement we reserve the right to change the information at any time without prior notice should further tests reveal different results.



# Outdoor Flooring System



Please refer to the Plas-Pro installation guide for more detailed information.

# Technical Data

| Technical Data For Plas-Pro |                     |                                  |             | Plas-Pro Size       |                        |
|-----------------------------|---------------------|----------------------------------|-------------|---------------------|------------------------|
| Test                        | DIN EN ISO Standard | Result                           |             | 50x50mm & 100x100mm |                        |
| 3 Point Bend                | 178                 | Flexural Stress                  | -5oC        | MPa                 | 21.2                   |
|                             |                     | Bending E-Modulus                | -5oC        |                     | 1.289                  |
|                             |                     | Flexural Stress                  | +23oC       |                     | 11.6                   |
|                             |                     | Bending E-Modulus                | +23oC       |                     | 581                    |
|                             |                     | Flexural Stress                  | +65oC       |                     | 4.6                    |
|                             |                     | Bending E-Modulus                | +65oC       |                     | 162                    |
| Tensile                     | 527-2               | Strength                         |             | MPa                 | 9.65                   |
|                             |                     | Elongation                       |             | %                   | 13.8                   |
|                             |                     | Tensile E-modulus                |             | MPa                 | 659                    |
| Timed Tensile               | 899-1               | Tensile E-modulus                | 1 hour      | MPa                 | 316                    |
|                             |                     |                                  | 24 hours    |                     | -                      |
|                             |                     |                                  | 100 hours   |                     | 202                    |
| Timed 3 Point Bend          | 899-2               | Bending E-Modulus                | 1 hour      | MPa                 | 380                    |
|                             |                     |                                  | 24 hours    |                     | 271                    |
|                             |                     |                                  | 100 hours   |                     | 235                    |
| Pressure Characteristics    | 604                 | Compression Strength             | 1% Stretch  | MPa                 | 1.8                    |
|                             |                     |                                  | 2% Stretch  |                     | 3.3                    |
|                             |                     |                                  | 10% Stretch |                     | 13.3                   |
|                             |                     |                                  | 20% Stretch |                     | 18.2                   |
|                             |                     |                                  | At yield    |                     | -                      |
|                             |                     | Pressure E-Modulus               | 271         |                     |                        |
| Charpy Test                 | 179                 | Impact Resistance                |             | kJ/m2               | 412                    |
| Impact Shore Hardness       | 868                 | Shore Hardness                   |             | -                   | 53                     |
| Density Test                | 1183-1              | Density                          |             | g/cm3               | 1.0062                 |
| Water Absorbion             | 62                  | +23oC, 50% R.I                   |             | %                   | <1                     |
|                             |                     | +23oC in water                   |             |                     | <1                     |
|                             |                     | +100oC in water                  |             |                     | <1                     |
| Resistance                  | 600934              | Surface Resistance               | Ω           |                     | 3.2 x 10 <sup>13</sup> |
|                             |                     | Specific Surface Resistance      |             |                     | 3.2 x 10 <sup>14</sup> |
|                             |                     | Flow/Contact Resistance          |             |                     | 9.0 x 10 <sup>13</sup> |
|                             |                     | Specific Flow/Contact Resistance |             |                     | 4.5 x 10 <sup>14</sup> |
| Ball Striking Test          | 2039-1              | Ball Striking Hardness           |             | N/mm2               | 18.44                  |
| Thermal Expansion           | -                   | Coefficient of Thermal Expansion |             | 1/oC                | 0.00016993             |
| Screw Pull Out Force        | -                   | Drilled Material                 |             | N                   | 7.500                  |
|                             |                     | Non Pre-Drilled Material         |             | N                   | 7.500                  |

| Technical Data For Plas-Pro |                     |                                  |             | Plas-Pro Size |                         |
|-----------------------------|---------------------|----------------------------------|-------------|---------------|-------------------------|
| Test                        | DIN EN ISO Standard | Result                           |             | 125x50mm      |                         |
| 3 Point Bend                | 178                 | Flexural Stress                  | -5oC        | MPa           | 35.1                    |
|                             |                     | Bending E-Modulus                | -5oC        |               | 2.261                   |
|                             |                     | Flexural Stress                  | +23oC       |               | 24                      |
|                             |                     | Bending E-Modulus                | +23oC       |               | 1,424                   |
|                             |                     | Flexural Stress                  | +65oC       |               | 16.5                    |
|                             |                     | Bending E-Modulus                | +65oC       |               | 856                     |
| Tensile                     | 527-2               | Strength                         |             | MPa           | 15.6                    |
|                             |                     | Elongation                       |             | %             | 1.7                     |
|                             |                     | Tensile E-modulus                |             | MPa           | 1,490                   |
| Timed Tensile               | 899-1               | Tensile E-modulus                | 1 hour      | MPa           | 1,043                   |
|                             |                     |                                  | 24 hours    |               | 975                     |
|                             |                     |                                  | 100 hours   |               | 852                     |
| Timed 3 Point Bend          | 899-2               | Bending E-Modulus                | 1 hour      | MPa           | 1,159                   |
|                             |                     |                                  | 24 hours    |               | 943                     |
|                             |                     |                                  | 100 hours   |               | 816                     |
| Pressure Characteristics    | 604                 | Compression Strength             | 1% Stretch  | MPa           | 2.5                     |
|                             |                     |                                  | 2% Stretch  |               | 5.3                     |
|                             |                     |                                  | 10% Stretch |               | 27.9                    |
|                             |                     |                                  | 20% Stretch |               | -                       |
|                             |                     |                                  | At yield    |               | 29.0                    |
|                             |                     | Pressure E-Modulus               | 815         |               |                         |
| Charpy Test                 | 179                 | Impact Resistance                |             | kJ/m2         | 12                      |
| Impact Shore Hardness       | 868                 | Shore Hardness                   |             | -             | 62                      |
| Density Test                | 1183-1              | Density                          |             | g/cm3         | 1.0529                  |
| Water Absorbion             | 62                  | +23oC, 50% R.I                   |             | %             | <1                      |
|                             |                     | +23oC in water                   |             |               | <1                      |
|                             |                     | +100oC in water                  |             |               | <1                      |
| Resistance                  | 600934              | Surface Resistance               | Ω           |               | 1.5 x 10 <sup>14</sup>  |
|                             |                     | Specific Surface Resistance      |             |               | 1.5 x 10 <sup>15</sup>  |
|                             |                     | Flow/Contact Resistance          |             |               | >2.0 x 10 <sup>14</sup> |
|                             |                     | Specific Flow/Contact Resistance |             |               | >8.4 x 10 <sup>14</sup> |
| Ball Striking Test          | 2039-1              | Ball Striking Hardness           |             | N/mm2         | 39.52                   |
| Thermal Expansion           | -                   | Coefficient of Thermal Expansion |             | 1/oC          | 0.0001510648            |
| Screw Pull Out Force        | -                   | Drilled Material                 |             | N             | 8.230                   |
|                             |                     | Non Pre-Drilled Material         |             | N             | 8,140                   |