

## MATERIAL PROPERTIES DATA SHEET | BONDED PANELS (14-25 mm)

The Bonded Panels collection is the result of a wide selection of designs to inspire designers, empower resellers, and ultimately meet the expectations of the most demanding customers by offering a truly complete range of opportunities and inspirations in terms of finishing and technical features.

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|  |                           |   |                                 | Arpa HPL surface     | FENIX surface |
|--|---------------------------|---|---------------------------------|----------------------|---------------|
| Properties                                   | Test method               | Property or attribute   | Unit                            | Values               |               |
| <b>Surface properties</b>                    |                           |   |                                 |                      |               |
| Surface quality                              | EN 438-2:2016 cl.4        | Spots, dirt and similar surface defects                                       | mm <sup>2</sup> /m <sup>2</sup> | ≤ 1                  |               |
|  |                           | Fibres, hair and scratches  | mm/m <sup>2</sup>               | ≤ 10                 |               |
| Resistance to surface wear                   | EN 438-2:2016 cl.10       | Initial Point   | Revolutions                     | Plain color ≥ 150*   | ≥ 200         |
|  |                           |   |                                 | Printed decor ≥ 100* |               |
|  |                           |   |                                 | Glossy ≥ 50          |               |
| Resistance to scratching                     | EN 438-2:2016 cl.25       | Appearance  | Rating                          | Glossy ≥ 2           | ≥ 4           |
|  |                           |   |                                 | Other finishing ≥ 3  |               |
| Resistance to staining                       | EN 438-2:2016 cl.26       | Appearance - Group 1 and 2  | Rating                          | 5                    |               |
|  |                           | Appearance - Group 3  | Rating                          | ≥ 4                  |               |
| <b>General properties</b>                    |                           |   |                                 |                      |               |
| Dimensional tolerances                       | ISO 13894-1 cl.6 and cl.7 | Thickness   | mm                              | +/- 0.5              |               |
|  |                           | Length  | mm                              | +/- 5                |               |
|  |                           | Width   | mm                              | +/- 5                |               |
|  |                           | Deviation from flatness (apply only on elements that are of thickness ≥ 16mm) | mm/m                            | ≤ 2                  |               |
|  |                           | Edge straightness   | mm/m                            | +/- 0.5              |               |
|  |                           | Edge squareness   | mm/m                            | ≤ 2                  |               |
| <b>Physical properties</b>                   |                           |   |                                 |                      |               |
| Impact resistance                            | ISO 13894-1 cl.18         | Small diameter ball   | N                               | ≥ 15                 |               |
|  | ISO 13894-1 cl.17         | Large diameter ball   | mm                              | ≥ 600                |               |
| Glue-line quality                            | ISO 13894-1 cl.8          | Quality   | Rating                          | 5                    |               |
| Surface bond strength                        | ISO 13894-1 cl.9          | Strength  | MPa                             | ≥ 1                  |               |
| Perpendicular tensile strength               | ISO 13894-1 cl.10         | Strength  | MPa                             | ≥ 0,35               |               |
| Resistance to axial withdrawal of wood screw | ISO 13894-1 cl.15         | Screw holding value   | N                               | ≥ 1500               |               |
| Substrate protection against water vapor     | ISO 13894-1 cl.14         | Thickness swell   | mm                              | ≤ 0.1                |               |

### Note to ARPA HPL Surface

\* In case of structured finishes, the surface wear resistance values may be 10 or more revolutions lower than the nominal values in proportion to how much more is accentuated the shape.

### Note to FENIX bonded panels with adhesive protective film

The protective film is designed to temporary protect the surface from dust, scratches and marks left by handling equipment; it does not protect from corrosion, dampness or chemical agents. Sheets covered with protective film should be stored in a clean dry atmosphere at room temperature (ideally 20°C), avoiding exposure to atmospheric agents and UVA rays.

The protective film should be removed from the sheets surface after application and before the final item.

In any case, the removal should take place within 6 months from the date of shipping by Arpa Industriale.

Arpa Industriale shall not accept liability for improper use of sheets covered with a protective film, nor for any consequences of an incorrect application.

### Note to deviation from flatness

The above values are referring only to double sided Elements. In case of products having different materials on the sides, there is no guarantee of deviation from flatness.

**DISCLAIMER.** The Material Properties Data Sheets provide all the technical information relevant to the performance of the product as tested by Arpa Industriale or certified testing body. Any information contained within this document must be verified and tested for suitability by the user for his or her particular purpose or specific application. Consideration needs to be given to local or specific circumstances. The content of this document reflects our knowledge and experience at the time of publication. The newest version of the document replaces all previous versions. We advise that the newest version may contain technical changes that must be taken into account when using the products. Customers should always check whether an updated version of the document is available.

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