# **Technical** Data Sheet

| | | | **Vinyl**comfort **Floating** | | | **Vinyl**comfort **Floating HydroCork** |
|---|---|---|---|---|---|---|
| | | | **0,55mm Wear Layer**<br>**1220 x 185 x 10,5mm**<br>48 x 7 1/4 x 3/8"<br>**605 x 445 x 10,5mm**<br>23 13/16 x 17 1/2 x 3/8" | **0,3mm Wear Layer**<br>**1220 x 185 x 10,5mm**<br>48 x 7 1/4 x 3/8"<br>**905 x 295 x 10,5mm**<br>35 5/8 x 11 5/8 x 3/8" | **0,2mm Wear Layer**<br>**1220 x 185 x 10,5mm**<br>48 x 7 1/4 x 3/8" | **0,55mm Wear Layer**<br>**1226 x 145 x 6mm**<br>48 1/4 x 5 11/16 x 1/4" |
| Level of use Domestic | ISO 10874 | Class | 23  | 23  | 23  | 23  |
| Level of use Commercial | ISO 10874 | Class | 33  | 32  | 31  | 33  |
| | **Standard-Test Method** | **Unit** | **Specification EN 14085 + EN 649** | **Specification EN 14085 + EN 649** | **Specification EN 14085 + ISO 10582** | **Specification ISO 10582 + EN 14085 + EN 14041** |
| **General properties** | | | | | | |
| Dimensions | ISO 24342 | mm | ± 0,10% up to<br>width: max. 0,5 mm<br>lenght: max. 2,0 mm | ± 0,10% up to<br>width: max. 0,5 mm<br>lenght: max. 2,0 mm | ± 0,10 up to<br>max. 0,5 mm<br>max. 2,0 mm | ± 0,10% up to<br>max. 0,5mm<br>max. 2.0mm |
| Overall thickness | ISO 24346 | mm | ± 0,25 | ± 0,25 | ± 0,25 | ± 0,25 |
| Straightness measured at the surface layer | ISO 24342 | mm | ≤ 0,30 | ≤ 0,30 | ≤ 0,30 | ≤ 0,30 |
| Squareness | ISO 24342 | mm | ≤ 0,50 | ≤ 0,50 | ≤ 0,50 | ≤ 0,50 |
| Apparent density | EN 672 | $Kg/m^3$ | Nominal value (960) ± 50 | Nominal value (900) ± 50 | Nominal (930) ± 50 | Nominal value (1400)+ - 140 |
| Mass per unit area | ISO 23997 | $g/m^2$ | Nominal value<br>(10150) - 10 % + 13% | Nominal value<br>(9800) - 10 % + 13% | Nominal +13% / -10% | Nominal value (8400) +13%/-10% |
| Dimensional stability (humidity) | EN 669 (Annex C ) | mm | ≤ 5 | ≤ 5 | ≤ 5 | ≤ 5 |
| Dimensional stability (heat) | EN 14085 Annex C/ EN 669 | % | - | - | - | ≤ 0,25 |
| Openings between panels | EN 14085 (Annex B ) | mm | ≤ 0,20 | ≤ 0,20 | ≤ 0,20 | ≤ 0,20 |
| Height difference between panels | EN 14085 (Annex B ) | mm | ≤ 0,20 | ≤ 0,20 | ≤ 0,20 | ≤ 0,20 |
| Flatness of the panel (Length - Concave / Convex) | EN 14085 (Annex A) | % | ≤ 0,50 / ≤ 1,0 | ≤ 0,50 / ≤ 1,0 | ≤ 0,50 / ≤ 1,0 | ≤ 0,50 / ≤ 1,0 |
| Flatness of the panel (Width - Concave / Convex) | EN 14085 (Annex A) | % | ≤ 0,10 / ≤ 0,15 | ≤ 0,10 / ≤ 0,15 | ≤ 0,10 / ≤ 0,15 | ≤ 0,10 / ≤ 0,15 |
| Residual indentation | ISO 24343-1 | mm | ≤ 0,15 | ≤ 0,15 | ≤ 0,15 | ≤ 0,1 |
| Curling after exposure to heat | ISO 23999 | mm | - | - | - | ≤ 2 |
| Colour fastness | ISO 105-BO2 | Blue wool scale | ≥ 6 | ≥ 6 | ≥ 6 | ≥ 6 |
| **Classification properties - EN 655 + EN 649 + EN 14085** | | | | | | |
| Wearing Group | EN 660-1 | Thickness loos ( Δ lmm) | Wear group T | Wear group T | - | Wear group T |
| Overal thickness (Vinyl + Cork layer) | ISO 24346 | mm | ≥ 3,0 | ≥ 3,0 | - | - |
| Thickness of wear layer (Wear Group T) | ISO 24340 | mm | ≥ 0,55 | ≥ 0,3 | 0,2 | 0,55 |
| Thickness swelling | ISO 24336 | % | - | - | - | ≤ 15 |
| Castor chair | EN 425 | Visual effect - after 25 000 cycles | No disturbance to the surface other than slight change in appearance and no delamination shall occur | No disturbance to the surface other than slight change in appearance and no delamination shall occur | No disturbance to the surfacen other than slight change in appearance and no delamination shall occur | No disturbance to the surface other than a slight change in appearance and no delamination shall occur |
| Simulated movement of a furniture leg | EN 424 | Visual effect | No damage shall be visible after testing with a type 2 foot | No damage shall be visible after testing with a type 2 foot | No damage shall be visible after testing with a type 2 foot | No damage shall be visible after testing with a type 0 foot |
| **Safety properties - EN 14041** | | | | | | |
| Fire resistance | EN 13501-1 | Class | Bfl s1 | Bfl s1 | Bfl s1 | Bfl-s1 |
| Slip Classification | EN 13893 | Class | DS | DS | DS | DS |
| Formaldehyde emission | DIN EN 717-1 | Class | E1 | E1 | E1 | E1 |
| Electrical behaviour | EN 1815 | kV | Antistatic | Antistatic | Antistatic | Not Antistatic |
| Content pentachlorophenol (PCP) | CEN/TR 14823 (ihd-W 409) | mg/Kg | PCP free | PCP free | - | - |
| | EN 14041 Annex B | % | - | - | Undetectable | Undetectable |
| **Additional properties** | | | | | | |
| Stains Resistance | ISO 26987 (a) | Grade | Grade 0 (b) * | Grade 0 (b) | Grade 0 (b) | Grade 0 (b) |
| Thermal resistance | EN 12667 | $(m^2K)/W$ | 0,093 | 0,104 | R <0,112 | 0,05 |
| Impact sound reduction | ISO 140-8 | dB (Δ Lw) | 16 | 16 | 16 | 16 |
| Step sound/ Step sound reduction | NF S 31 - 074 | L n,e,w (dB)/ΔEρω (dB) | 81 | 81 | 81 | - |
| Walking noise | IHD - W431 | dB (A) | Reduction improvement 11,4 dB(A)<br>Difference of loudness 45,4% | Reduction improvement 11,4 dB(A)<br>Difference of loudness 45,4% | Reduction improvement 11,4 dB (A)<br>Difference of loudness 45,4% | Reduction improvement 11,1dB<br>Difference of Loudness 51,1% |
| Swelling of the joints (Moisture Exposure) | IHD 423 | mm | - | - | - | No visible effect |

(a) The following products were tested: Desinfectant, C2H5OH, NH4OH, Citric acid, iodine, petroleum, spirit
(b) Grade 0 - Unchanged / Grade 1 - Very little change / Grade 2 - Little change / Grade 3 - Change / Grade 4 - Strong Change
* Except Iodine - Grade 2 - Little change