

| KBOB-Bauteilkatalog-LIGNATUR                  | Bezug<br>Référence | UBP'21                |                |            | Primärenergie    |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            | Treibhausgas-<br>emissionen |                        |                        | Biogener<br>Kohlenstoff | CO2<br>Speicherung        |
|---|--------------------|-----------------------|----------------|------------|------------------|----------------------|---------------------------------------|-------------------------------------|------------|----------------------------------|----------------------|---------------------------------------|-------------------------------------|------------|-----------------------------|------------------------|------------------------|-------------------------|---------------------------|
|   |                    | Total                 | Herstellung    | Entsorgung | erneuerbar       |                      |                                       |                                     |            | nicht erneuerbar (Graue Energie) |                      |                                       |                                     |            | Total                       | Herstellung            | Entsorgung             | im Produkt<br>enthalten | im Produkt<br>gespeichert |
|   |                    |                       |                |            | Total            | Herstellung<br>total | Herstellung<br>energetisch<br>genutzt | Herstellung<br>stofflich<br>genutzt | Entsorgung | Total                            | Herstellung<br>total | Herstellung<br>energetisch<br>genutzt | Herstellung<br>stofflich<br>genutzt | Entsorgung |                             |                        |                        |                         |                           |
|   |                    | UBP                   | UBP            | UBP        | kWh oil-eq       | kWh oil-eq           | kWh oil-eq                            | kWh oil-eq                          | kWh oil-eq | kWh oil-eq                       | kWh oil-eq           | kWh oil-eq                            | kWh oil-eq                          | kWh oil-eq | kWh oil-eq                  | kg CO <sub>2</sub> -eq | kg CO <sub>2</sub> -eq | kg CO <sub>2</sub> -eq  | kg C                      |
| <b>Holz</b>                                   |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| Massivholzlamelle, Massivholzsteg             | kg                 | <b>476</b>            | 413            | 62.9       | <b>6.050</b>     | 6.040                | 0.889                                 | 5.150                               | 0.006      | <b>0.777</b>                     | 0.688                | 0.688                                 | 0.000                               | 0.089      | <b>0.173</b>                | 0.134                  | 0.039                  | 0.451                   | <b>1.654</b>              |
| <b>Farben/Anstriche</b>                       |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| Leim Keilzinkenstoss                          | kg                 | <b>8'678</b>          | 5'914          | 2'764      | <b>0.225</b>     | 0.223                | 0.223                                 | 0.000                               | 0.002      | <b>24.940</b>                    | 24.940               | 15.218                                | 9.722                               | 0.000      | <b>6.597</b>                | 4.201                  | 2.396                  | 0                       | 0                         |
| Leim Leimfuge                                 | kg                 | <b>5'243</b>          | 3'096          | 2'147      | <b>0.239</b>     | 0.237                | 0.237                                 | 0.000                               | 0.002      | <b>11.925</b>                    | 11.925               | 4.372                                 | 7.553                               | 0.000      | <b>3.897</b>                | 2.036                  | 1.861                  | 0                       | 0                         |
| Oberflächenbehandlung Lichtschutz             | kg                 | <b>2'686</b>          | 1'857          | 829        | <b>0.180</b>     | 0.180                | 0.180                                 | 0.000                               | 0.001      | <b>7.453</b>                     | 7.453                | 4.536                                 | 2.917                               | 0.000      | <b>1.935</b>                | 1.216                  | 0.719                  | 0                       | 0                         |
| Untersicht weiss lasiert                      | kg                 | <b>8'551</b>          | 8'007          | 545        | <b>2.067</b>     | 2.067                | 2.067                                 | 0.000                               | 0.000      | <b>14.867</b>                    | 14.867               | 14.799                                | 0.068                               | 0.000      | <b>3.254</b>                | 2.782                  | 0.472                  | 0                       | 0                         |
| Oberflächenbehandlung Brandverhalten B-s1, d0 | kg                 | <b>2'956</b>          | 1'408          | 1'548      | <b>0.097</b>     | 0.096                | 0.096                                 | 0.000                               | 0.001      | <b>3.864</b>                     | 3.864                | 2.892                                 | 0.972                               | 0.000      | <b>2.169</b>                | 0.828                  | 1.341                  | 0                       | 0                         |
| <b>Weitere Baustoffe</b>                      |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| Tilgerstein silence12                         | kg                 | <b>326</b>            | 284            | 43         | <b>0.037</b>     | 0.035                | 0.035                                 | 0.000                               | 0.002      | <b>0.468</b>                     | 0.416                | 0.416                                 | 0.000                               | 0.053      | <b>0.209</b>                | 0.196                  | 0.013                  | 0                       | 0                         |
| Feder Tilgerstein silence12                   | kg                 | <b>1'620</b>          | 1'500          | 116        | <b>0.339</b>     | 0.328                | 0.328                                 | 0.000                               | 0.010      | <b>3.950</b>                     | 3.820                | 3.820                                 | 0.000                               | 0.133      | <b>1.090</b>                | 1.030                  | 0.059                  | 0                       | 0                         |
| Kalksplittbefüllung für Schallschutz          | kg                 | <b>54</b>             | 14             | 40         | <b>0.003</b>     | 0.001                | 0.001                                 | 0.000                               | 0.002      | <b>0.062</b>                     | 0.009                | 0.009                                 | 0.000                               | 0.053      | <b>0.015</b>                | 0.002                  | 0.013                  | 0                       | 0                         |
| Mineralfaserhohlraumdämmung                   | kg                 | <b>1'830</b>          | 1'710          | 116        | <b>2.280</b>     | 2.270                | 2.270                                 | 0.000                               | 0.010      | <b>5.130</b>                     | 4.990                | 4.990                                 | 0.000                               | 0.133      | <b>1.030</b>                | 0.970                  | 0.059                  | 0                       | 0                         |
| Holzfaserohhlraumdämmung                      | kg                 | <b>1'400</b>          | 1'170          | 227        | <b>7.110</b>     | 7.090                | 1.920                                 | 5.170                               | 0.012      | <b>3.420</b>                     | 3.270                | 2.740                                 | 0.530                               | 0.151      | <b>0.725</b>                | 0.633                  | 0.092                  | 0.436                   | <b>1.599</b>              |
| Absorberplatte                                | kg                 | <b>1'400</b>          | 1'170          | 227        | <b>7.110</b>     | 7.090                | 1.920                                 | 5.170                               | 0.012      | <b>3.420</b>                     | 3.270                | 2.740                                 | 0.530                               | 0.151      | <b>0.725</b>                | 0.633                  | 0.092                  | 0.436                   | <b>1.599</b>              |
| <b>Strom</b>                                  |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| Verbrauchsmix Lignatur                        | kWh                | <b>553</b>            | 553            | 0          | <b>0.478</b>     | 0.478                | 0.478                                 | 0.000                               | 0.000      | <b>2.080</b>                     | 2.080                | 2.080                                 | 0.000                               | 0.000      | <b>0.196</b>                | 0.196                  | 0.000                  | 0                       | 0                         |
| <b>Transport</b>                              |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| Lastwagen 32-40 t                             | tkm                | <b>212</b>            | 212            | 0          | <b>0.023</b>     | 0.023                | 0.015                                 | 0.003                               | 0.005      | <b>0.496</b>                     | 0.496                | 0.496                                 | 0.000                               | 0.000      | <b>0.117</b>                | 0.117                  | 0.000                  | 0                       | 0                         |
| <b>Infrastruktur</b>                          |                    |                       |                |            |                  |                      |                                       |                                     |            |                                  |                      |                                       |                                     |            |                             |                        |                        |                         |                           |
| sawmill/CH/I                                  | p                  | <b>12'143'306'127</b> | 12'143'306'127 | 0          | <b>1'886'466</b> | 1'886'466            | 1'886'466                             | 0                                   | 0          | <b>15'755'241</b>                | 15'755'241           | 15'755'241                            | 0                                   | 0          | <b>5'501'077</b>            | 5'501'077              | 0                      | 0                       | 0                         |