

# Plakapanel

Permanent decay resistant formwork





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locations

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countries

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people worldwide

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### Technology for the benefit of civil construction and renovation

Plakapanel is a panel produced from cement, wood fibres and additives that serves as permanent formwork. It is intended for varied use in new builds, renovation work, industrial buildings and public works.



### Advantages

- Respect for the environment
- Resistant to decay
- Not sensitive to temperature differences
- Breathable material
- Good fire resistance
- Economical to purchase and to maintain

### Applications

The Plakapanel panels can be treated as fibreboard based on resin. They can be cut using a circular saw equipped with a toothed disc (optional in hard metal) and with an extraction system.



Plakapanel is installed as a free inlay on joists. The width of the inlay may be no less than 25 mm. The panel can be attached with screws or nails. The screws or nails are placed every 500 mm on panels thicker than 24 mm, and every 400 mm for other thicknesses, placed 20 mm from the edge of the panel.

It is advisable to lay the panels on a foam belt for better waterproofing and pressure distribution.

#### Size tolerances for whole panels

| Length (mm) | Width (mm) | Thickness (mm) | Angle (mm/m) |
|-------------|------------|----------------|--------------|
| ± 5         | ± 5        | ± 1,5*         | ± 2          |

\* The tolerance is ± 1 mm on 20 and 22 mm thick panels  
Cutting to size is possible on request

| Thickness (mm) | Length x width (mm) | Weight (kg/m <sup>2</sup> ) |
|----------------|---------------------|-----------------------------|
| 20             | 2600 x 1250         | 27,5                        |
|                | 3100 x 1250         |                             |
| 22             | 2600 x 1250         | 30,2                        |
|                | 3100 x 1250         |                             |
| 24             | 2600 x 1250         | 33,0                        |
|                | 3100 x 1250         |                             |
| 28             | 2600 x 1250         | 38,5                        |
|                | 3100 x 1250         |                             |
| 32             | 2600 x 1250         | 44,0                        |
|                | 3100 x 1250         |                             |
| 36             | 2600 x 1250         | 49,5                        |
|                | 3100 x 1250         |                             |
| 40             | 2600 x 1250         | 55,0                        |
|                | 3100 x 1250         |                             |

Other thicknesses: 10, 12, 14, 15 and 18 mm

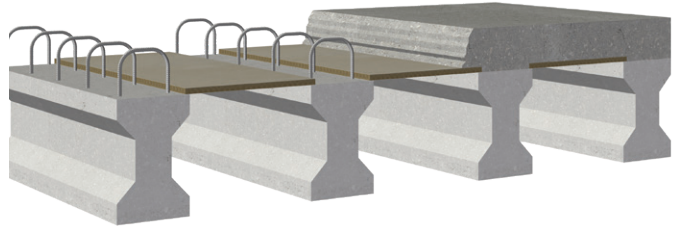
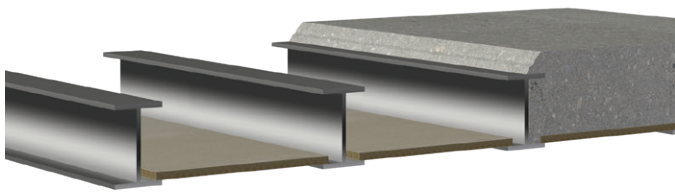




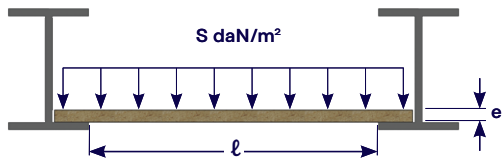
**Isotropic material,  
same resistance  
in all directions!**

## Plakapanel Dimensioning

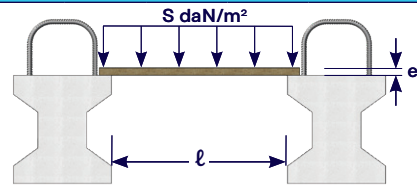
Plakapanel is self-bearing and supports within the limits indicated in the tables below. The minimum thickness of the panel is chosen in relation to the safety coefficient: generally it is advisable to use coefficient 3 but we advise using coefficient 5 for extra safety if builders will be walking on the panels during installation and concrete casting. The overload is limited to a deflection of 1/300 of the clear width, the weight of the slab has already been taken into account.



### Steel joists



### Concrete joists



| Permitted overload <S> in daN/m² (K = 3) |                    |      |      |      |       |       |       |
|--|--------------------|------|------|------|-------|-------|-------|
| Free bearing width "ℓ" (cm)              | Thickness "e" (mm) |      |      |      |       |       |       |
|  | 20                 | 22   | 24   | 28   | 32    | 36    | 40    |
| 20                                       | 3975               | 4813 | 5730 | 7805 | 10200 | 12915 | 15950 |
| 25                                       | 2535               | 3070 | 3656 | 4983 | 6514  | 8249  | 10190 |
| 30                                       | 1753               | 2124 | 2530 | 3449 | 4511  | 5715  | 7061  |
| 35                                       | 1281               | 1553 | 1851 | 2525 | 3304  | 4187  | 5174  |
| 40                                       | 975                | 1183 | 1410 | 1925 | 2520  | 3195  | 3950  |
| 45                                       | 765                | 929  | 1108 | 1514 | 1983  | 2515  | 3110  |
| 50                                       | 589                | 747  | 892  | 1219 | 1598  | 2029  | 2510  |
| 55                                       | 437                | 587  | 732  | 1002 | 1314  | 1669  | 2066  |
| 60                                       | 331                | 446  | 584  | 836  | 1098  | 1395  | 1728  |
| 65                                       | 255                | 345  | 453  | 707  | 929   | 1182  | 1465  |
| 70                                       |                    | 271  | 357  | 579  | 796   | 1013  | 1256  |
| 75                                       |                    |      | 285  | 465  | 688   | 877   | 1088  |
| 80                                       |                    |      |      | 377  | 574   | 765   | 950   |
| 85                                       |                    |      |      | 308  | 472   | 673   | 836   |
| 90                                       |                    |      |      | 254  | 392   | 569   | 740   |
| 95                                       |                    |      |      |      | 327   | 477   | 659   |
| 100                                      |                    |      |      |      | 275   | 403   | 564   |
| 105                                      |                    |      |      |      |       | 342   | 481   |
| 110                                      |                    |      |      |      |       | 292   | 412   |
| 115                                      |                    |      |      |      |       | 249   | 354   |
| 120                                      |                    |      |      |      |       |       | 306   |

daN/m² ≈ kg/m² - (safety coefficient: 3)

| Permitted overload <S> in daN/m² (K = 5) |                    |      |      |      |      |      |      |
|--|--------------------|------|------|------|------|------|------|
| Free bearing width "ℓ" (cm)              | Thickness "e" (mm) |      |      |      |      |      |      |
|  | 20                 | 22   | 24   | 28   | 32   | 36   | 40   |
| 20                                       | 2375               | 2877 | 3426 | 4669 | 6104 | 7731 | 9550 |
| 25                                       | 1511               | 1831 | 2182 | 2976 | 3892 | 4932 | 6094 |
| 30                                       | 1042               | 1263 | 1506 | 2056 | 2691 | 3411 | 4217 |
| 35                                       | 759                | 921  | 1098 | 1501 | 1966 | 2494 | 3085 |
| 40                                       | 575                | 699  | 834  | 1141 | 1496 | 1899 | 2350 |
| 45                                       | 449                | 546  | 653  | 894  | 1174 | 1491 | 1846 |
| 50                                       | 359                | 437  | 523  | 718  | 943  | 1199 | 1486 |
| 55                                       | 292                | 357  | 427  | 587  | 772  | 983  | 1219 |
| 60                                       | 242                | 295  | 354  | 488  | 643  | 819  | 1017 |
| 65                                       | 202                | 247  | 297  | 410  | 542  | 691  | 859  |
| 70                                       |                    |      | 252  | 349  | 462  | 590  | 734  |
| 75                                       |                    |      |      | 300  | 397  | 508  | 633  |
| 80                                       |                    |      |      | 259  | 344  | 441  | 550  |
| 85                                       |                    |      |      | 225  | 300  | 386  | 481  |
| 90                                       |                    |      |      |      | 263  | 339  | 424  |
| 95                                       |                    |      |      |      | 232  | 300  | 375  |
| 100                                      |                    |      |      |      |      | 266  | 334  |
| 105                                      |                    |      |      |      |      | 237  | 298  |
| 110                                      |                    |      |      |      |      |      | 267  |
| 115                                      |                    |      |      |      |      |      | 240  |
| 120                                      |                    |      |      |      |      |      | 217  |

daN/m² ≈ kg/m² - (safety coefficient: 5)

## Storage and transport



The panels are delivered on a pallet. It is advisable to transport the panels in an enclosed truck and to store them flat, protected from storms, in a dry ventilated space on a flat and even surface to prevent any unnecessary warping. The stored panels must be adequately supported to prevent long-term sagging under their own weight. The panels may be stacked no higher than 2 m.

## **Plakapanel** Permanent decay resistant formwork

### **Technology for the benefit of construction and renovation**

Plakapanel is a panel produced from cement, wood fibres and additives that serves as permanent formwork. It is intended for varied use in new builds, renovation work, industrial buildings and public works.

#### ■ **Respect for the environment**

Plakapanel respects the environment. Due to its composition the panel is fully ecological during the whole cycle from production up to use.

#### ■ **Not sensitive to temperature differences**

Plakapanel is resistant to cold, frost and intense heat (80°C) and maintains its properties in any climate.

#### ■ **Resistant to decay**

Plakapanel is resistant to most living organisms (mould, bacteria, insects, etc ...).

#### ■ **Breathable material**

Plakapanel is resistant to water for the purposes of its function as permanent formwork but does let steam through.

#### ■ **Good fire resistance**

Plakapanel does not create hazardous gases and is classified B1 in accordance with DIN 4102 and M1 in accordance with NF P 92-501.  
(NF = Norme Française)

#### ■ **Economical in purchase and maintenance**

Plakapanel provides savings from first use onwards because it can be installed quickly and easily.  
Plakapanel requires no maintenance.



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