







shuttering panel

formwork beam

formwork beam with protective cap

The Slopanel shuttering panels and the Slobeam H20 and Superbeam H20 formwork beams rank among the most reputable products of the Slovenian company GGP, Gozdno gospodarstvo Postojna, d.o.o..

Excellent wood quality, care and precision in production making, durability and possibility of multiple use are only some of the qualities that make them prominent and place them side by side to the best products of this particular kind. In order to produce shuttering panels and formwork beams of such excellent quality, we only use wood of Slovenian forests. The products are made in production plants, located in Stari trg pri Ložu.

Our products can be used for paneling all constructions made of concrete, such as bridges, tunnels, walls and similar types of formwork in all construction projects.

All the business partners worldwide are offered comprehensive dispatch and logistic services, including receiving orders, managing all the necessary documentation and delivery. Our team of expert workers provides every customer with the most affordable and the most efficient service, striving to meet all the customer's desires and demands.



Our production plant



The quality of our products has been accepted by many customers worldwide.

ALGERIA

ALBANIA

AUSTRIA

AZERBAIJAN

BOSNIA AND HERZEGOVINA

BULGARIA

CROATIA

CYPRUS

EGYPT

FINLAND

FRANCE

GERMANY

GREECE

HUNGARY

INDIA

IRELAND

ISLAMIC REPUBLIC OF IRAN

ISRAEL

ITALY

KOSOVO

LIBYA

MALTA

MONTENEGRO

MOROCCO

POLAND

PORTUGAL

QATAR

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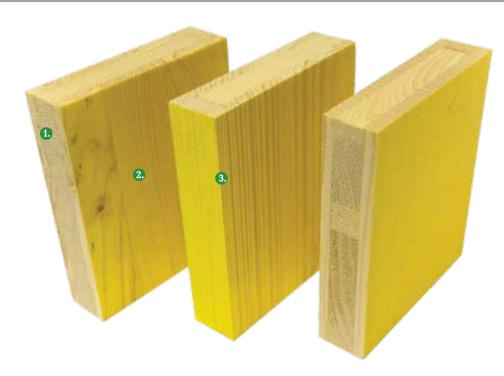
UKRAINE

UNITED ARAB EMIRATES



shuttering panel

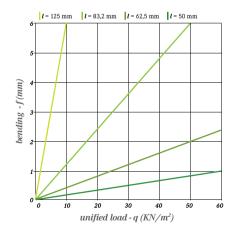
Slopanel shuttering panels are high-quality, 3-ply wooden panels, made of spruce wood acquired from Slovenian forests. The panels are fully coated with a highly resistant melamine resin, giving them excellent protection. They are mostly used for paneling concrete constructions, but can also be used for other purposes due to their exceptional functionality. They are distinguished for their superior quality, durability and multiple use.



Qualities

- **1.** The Slopanel shuttering panel is a high-quality 3-ply solid wood panel, made of spruce wood. It consists of the layers glued crosswise with perimeter frame in the middle layer.
- **2.** Its entire surface is protected and coated on both sides with highly resistant melamine resin, thus making it watertight and water-repelling, ensuring smooth surface of concrete constructions.
- **3.** Edge band is also coated with a watertight cover, preventing moisture from penetrating into the middle, thus giving extra strength to the panel.
- **4.** The important quality of our panel is its bending strength.
- **5.** The quality of the panel fully complies with the DIN 68705 standard (this is approved by the test, made by the Slovenian National Building and Civil Engineering Institute) and is pursuant to the Austrian standard ÖN B 3023.

Bending strength*



The diagram shows how the panel reacts when loaded, considering the space intervals in between the supporting elements. Therefore q stands for uniform load (in KN/m² units), *l* stands for the space interval in between the supporting elements and f (bending) is stated in mm.

Technical specifications

PRODUCT	3-PLY SOLID WOOD PANEL, COATED WITH HIGHLY RESISTANT MELAMINE COATING
TYPES OF WOOD	SPRUCE
WOOD MOISTURE	12 % ± 2 %
THICKNESS	2ī, 27 mm
SURFACE QUALITY	HIGHLY RESISTANT MELAMINE COATING, EXTREMELY SMOOTH SURFACE
WEIGHT	21 mm ≅ 10 kg / m² 27 mm ≅ 12,3 kg / m²
PACKAGING	21 mm = 50 PIECES / PACKAGE 27 mm = 40 PIECES / PACKAGE ACCORDING TO CUSTOMER'S DESIRES IT IS POSSIBLE TO SECURE THE PRODUCT BY PLASTIC FOIL OR COVER AND REARRANGE PACKAGING UNITS.

Format specification

THICKNESS	27 mm	27 mm, optional	21 mm, optional
WIDTH	500 mm	200, 250, 300, 350, 400, 450 mm	500 mm
LENGTH	1000, 1500, 2000, 2500, 3000 mm	2000 mm	1000, 1500, 2000, 2500 , (3000) mm

^{*}Optimal carrying capacity for thickness of 21 mm is achieved by support for every 300 mm, whereas for thickness of 27 mm, optimal capacity is achieved with support for every 500 mm.





Slobeam H20 and Superbeam H20 are formwork beams made of spruce wood, acquired from Slovenian forests and ensure high-quality paneling of concrete formwork constructions.

Our formwork beams are 20 cm high and are produced in various standard lengths. A special protective cap prevents the beam to be exposed to premature chipping on the chord ends. Furthermore, the wood chords of excellent quality are combined with triple laminated wood webs, thus ensuring sustainability of the product and exceptional durability.



Qualities

- **1.** The Superbeam H20 and Slobeam H20 are made of spruce wood.
- **2.** The chord is made of carefully selected wood of superior quality.
- **3.** The web is made of 3-ply solid wood panel, ensuring high carrying capacity and durability in all climate zones.
- **4.** The web and the chord are combined with a special finger joint, distinguished for its quality of inseparability.
- **5.** A special shock-resistant, plastic protective cap at the beam's edges prevents mechanical injuries, and increases its durability*.
- **6.** The formwork beam surface is covered with watertight coating, ensuring continuous use and long product life.
- **7.** The length is printed on every formwork beam to ensure its simple use.
- **8.** The quality of the formwork beam is certified by the HFB ENGINEERING GmbH, Germany and it is pursuant to SIST EN 13377 standard.









Technical specifications

formwork beam

formwork beam with protective cap

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PRODUCT	wooden formwork beam, glued								
TYPES OF WOOD	SPRUCE								
WOOD MOISTURE	12 % ± 2 %								
WEIGHT	4,7 kg/m								
GLUING	Melamine resin-based adhesive, Adhesive Type I acc. to EN 301 approved for gluing load-bearing timber components.								
CHORD	Made of carefully selected spruce wood • Finger-jointed, solid wood cross-sections with a dimension of 80 x 40 mm • Finger-jointing of the chords • Web milling on the opposing side of the core (left-sided chord surface) • Planed and chamfered to approx. 0.4 mm								
WEB	3-PLY SOLID WOOD PANEL, LAMINATED PRIMARILY SHOWING VERTICAL GROWTH RINGS.								
DESIGN	CERTIFICATE OF HFB AND ZAG (SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE), SIST EN 13377								
SURFACE PROTECTION	The complete beam is waterproofed using a water-repellent color glaze.								
SUPPORTS	THANKS TO THE 3-PLY SOLID WOOD WE	Thanks to the 3-ply solid wood webs, Slobeam H20 formwork beams can be cut into and supported at any lengths.							
	DIMENSION VALUE ¹ BEAM HEIGHT 200 mm	TOLERANCE ² ± 2 mm	000 mm						
DIMENSIONS AND TOLERANCES	CHORD HEIGHT 40 mm CHORD WIDTH 80 mm WEB THICKNESS 29 mm 1) THESE VALUES APPLY AT A WOOD MOISTURE COM	± 0,6 mm + 0,8 / - 1,2 mm ± 0,87 mm	29 mm						
	2) According to Standard SIST EN 13377:2002 Oualities Strains	DIN1052-1:1988-04	DINi052:2008-12 / Eurocode 5 Characteristic limits of						
	SHEARING FORCE	PERMISSIBLE STRESS VALUES ZUL Q = 11,0 kN	LOAD-BEARING CAPACITY $V_{\nu} = 23.9 \text{ kN}$						
	Bending moment	zul M = 5,0 kNm	M _K = 10,9 KNM						
TECHNICAL SPECIFICA- TIONS OF THE PRODUCT	SUPPORT SECTION MODULUS¹ GEOMETRICAL MOMENT OF INERTIA¹	$W_x = 461 \text{ cm}^3$ $I_x = 4.613 \text{ cm}^4$	$R_{_{B,K}} = 47.8 \text{ KN}$						
	ELASTICITY MODULUS SHEARING MODULUS 1) THE VALUES OF THE SECTION MODUL AN ANALOGOUSLY INCREASED FACTOR		OF INERTIA APPLY TO NEW OR USED CONCRETE FORMWORK BEAMS.						
STANDARD LENGTHS	1,95/2,45/2,65/2,90/3,30/3,60/3,90/4,50/4,90/5,90/MAX. 6 m length								
PACKAGING	STANDARD PACKAGING: 50 PIECES PER	R PACKAGE.	CONTAINER PACKAGING: 100 PIECES PER PACKAGE.						
	THE PACKAGES ARE READY TO BE IMMEDIATELY USED AT THE CONSTRUCTION SITE. THE PACKAGE IS PLACED ON SUPPORTING WOOD, PROTECTING THE FORMWORK BEAMS AND PROVIDES SIMPLE USE WITH FORKLIFT.								

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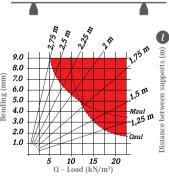
Table 1				Table 2										
FLOOR THICKNESS (CM)	NESS LOAD 1 ²)	MAX. PERMISSIBLE SUPPORT WIDTH OF THE CROSSBEAM (m) = DISTANCE BETWEEN MAIN BEAMS (m)			Max. permissible support width = distance between supports (m)									
FLOOR THICKN (CM)		DISTANCE BETWEEN CROSSBEAMS (m)				SELECTED DISTANCE BETWEEN THE MAIN BEAMS (M)								
FLOO THIC (Cm)	五百 5 五	0,50	0,625	0,667	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	3,00	3,50
10	4,38	3,70	3,43	3,35	3,22	2,93	2,72	2,50	2,31	2,16	2,04	1,93	1,70	1,45
I2	4,91	3,50	3,24	3,17	3,05	2,77	2,57	2,36	2,19	2,05	I,92	1,82	I,52	I,30
14	5,43	3,32	3,09	3,02	2,91	2,64	2,45	2,24	2,08	1,94	1,82	1,64	1,37	1,18
16	5,95	3,19	2,96	2,90	2,79	2,54	2,35	2,14	1,98	1,85	1,66	1,50	1,25	1,07
18	6,48	3,07	2,85	2,79	2,69	2,44	2,25	2,06	1,90	I,72	1,53	1,38	1,15	0,99
20	7,00	2,97	2,76	2,70	2,60	2,36	2,17	1,97	1,82	1,59	1,42	1,28	1,07	0,91
22	7,53	2,88	2,68	2,62	2,52	2,29	2,09	1,90	1,69	1,48	1,32	1,19	0,99	0,85
24	8,05	2,81	2,61	2,55	2,45	2,23	2,02	1,84	1,58	1,39	I,23	I,II	0,93	0,80
26	8,57	2,74	2,54	2,49	2,39	2,18	1,95	1,73	1,49	1,30	1,16	1,04	0,87	0,75
28	9,10	2,67	2,48	2,43	2,34	2,12	1,89	1,63	1,40	1,23	1,09	0,98	0,82	0,71
30	9,68	2,61	2,43	2,38	2,29	2,06	1,83	1,54	1,32	1,15	1,03	0,93	0,77	0,65
35	11,25	2,49	2,31	2,26	2,18	1,90	1,59	1,32	1,14	0,99	0,89	0,80	0,66	0,56
40	12,83	2,38	2,21	2,17	2,07	1,74	1,39	1,16	1,00	0,87	0,78	0,70	0,58	0,49
45	14,40	2,29	2,13	2,07	1,94	1,55	1,24	1,04	0,89	0,78	0,69	0,62	0,51	0,44
50	15,97	2,22	2,03	1,96	1,84	1,40	1,12	0,94	0,80	0,70	0,62	0,56	0,46	0,40
55	17,54	2,15	1,93	1,87	1,69	1,27	1,02	0,85	0,73	0,63	0,56	0,51	0,42	0,36
60	19,11	2,07	1,85	1,75	1,56	1,17	0,94	0,78	0,66	0,58	0,52	0,46	0,39	0,33
65	20,68	1,98	1,72	1,62	1,44	1,08	0,87	0,72	0,61	0,54	0,48	0,43	0,36	0,31
70	22,26	1,91	1,60	1,50	1,34	1,01	0,81	0,66	0,57	0,50	0,44	0,40	0,33	0,28
75	23,83	1,85	1,50	1,41	1,25	0,94	0,75	0,62	0,53	0,47	0,41	0,37	0,31	0,27
80	25,40	1,76	1,41	1,32	1,17	0,88	0,71	0,58	0,50	0,44	0,39	0,35	0,29	0,25
85	26,97	1,65	1,32	1,24	I,II	0,83	0,66	0,55	0,47	0,41	0,37	0,33	0,27	0,23
90	28,54	1,56	1,25	1,17	1,05	0,79	0,62	0,52	0,44	0,39	0,35	0,31	0,26	0,22
95	30,11	1,48	1,19	I,II	0,99	0,75	0,59	0,49	0,42	0,37	0,33	0,29	0,25	0,21
100	31,69	I,4I	I,I3	1,06	0,94	0,71	0,56	0,47	0,40	0,35	0,31	0,28	0,23	0,20

Example of calculation: Floor thickness: 20 cm, distance between crossbeams: 0,75 m; we are looking for the distance between the main beams and the supports.

The permissible distance between main beams according to table 1 = 2,60 m. The identical or next smaller distance between main beams in table 2 = 2,5 m. Look for the permissible distance between supports in table 2, read downwards in column «2,50 m» and sideways in row «20 cm» floor thickness, the result is 1,28 m. Caution! Examine the supports to ensure the corresponding carrying force.

Bending, which takes place with formwork beams, loaded by particular force at different space intervals of support.





Multi span beam

