GBM
SHORING AND SCAFFOLDING

Product	Three-ply concrete formwork panel coated with melamine resin that allows a resistant and smooth surface	GBM panel 27 mm GBM panel 21 mm	
Wood species	Spruce		
Wood moisture	12% ± 2%		
Weight	12 kg/m2 (27 mm) / 10kg/m2 (21 mm)		
Formats (mm)	1000x500 - 1500x500 - 2000x500 - 2500x500 - 3000x500		
Thickness (mm)	21, 27		
Surface protection	Highly resistant melanine coating, extremely smooth surface		
Edge seal	Water repellent edge formork finish, yellow		
Packaging	21mm/50 pcs package, 27mm/40pcs package. The packages are ready to be immediately used at the worksite. The package is placed on supporting wood, protecting the panels and provide simple use to with forklift.		
Design values	Mechanical properties	21 mm	27 mm
	Minimal value	40N/mm2	40N/mm2
	Modulus of elasticity (mean value)	10000N/mm2	10000N/mm2
Note	The values are calculated with a wood moisture of 12%. With heavy moisture penetration up to fiber saturation point, the values for bending strenght and flexural modulus of elasticity may be up to 30% lower		

		L							
d=21 mm		0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
q	5 kN/m2	0.11	0.17	0.26	0.38	0.54	0.75	1.00	1.32
	10 kN/m2	0.21	0.34	0.52	0.77	1.08	1.49	2.01	2.65
	15 kN/m2	0.32	0.51	0.78	1.15	1.63	2.24	3.01	3.97
	20 kN/m2	0.43	0.69	1.05	1.53	2.17	2.99	4.02	5.30
	25 kN/m2	0.54	0.86	1.31	1.91	2.71	3.74	5.02	6.62
	30 kN/m2	0.64	1.03	1.57	2.30	3.25	4.48	6.03	7.95
	35 kN/m2	0.75	1.20	1.83	2.68	3.80	5.23	7.03	9.27
	40 kN/m2	0.86	1.37	2.09	3.06	4.34	5.98	8.04	10.59

q = load (N/m2)
L = span (m)
d = 21 mm
E = 10000N/mm2 of extrapanel with d=21 mm
K = 0.646 deformation factor contingent on number of fields for constant load

		L							
d=27 mm		0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75
q	5 kN/m2	0.05	0.08	0.12	0.18	0.26	0.35	0.47	0.62
	10 kN/m2	0.10	0.16	0.25	0.36	0.51	0.70	0.95	1.25
	15 kN/m2	0.15	0.24	0.37	0.54	0.77	1.05	1.42	1.87
	20 kN/m2	0.20	0.32	0.49	0.72	1.02	1.41	1.89	2.49
	25 kN/m2	0.25	0.40	0.62	0.90	1.28	1.76	2.36	3.12
	30 kN/m2	0.30	0.48	0.74	1.08	1.53	2.11	2.84	3.74
	35 kN/m2	0.35	0.57	0.86	1.26	1.59	2.46	3.31	4.36
	40 kN/m2	0.40	0.65	0.98	1.44	2.04	2.81	3.78	4.98

q = load (N/m2)
L = span (m)
d = 27 mm
E = 10000N/mm2 of extrapanel with d=27 mm
K = 0.646 deformation factor contingent on number of fields for constant load