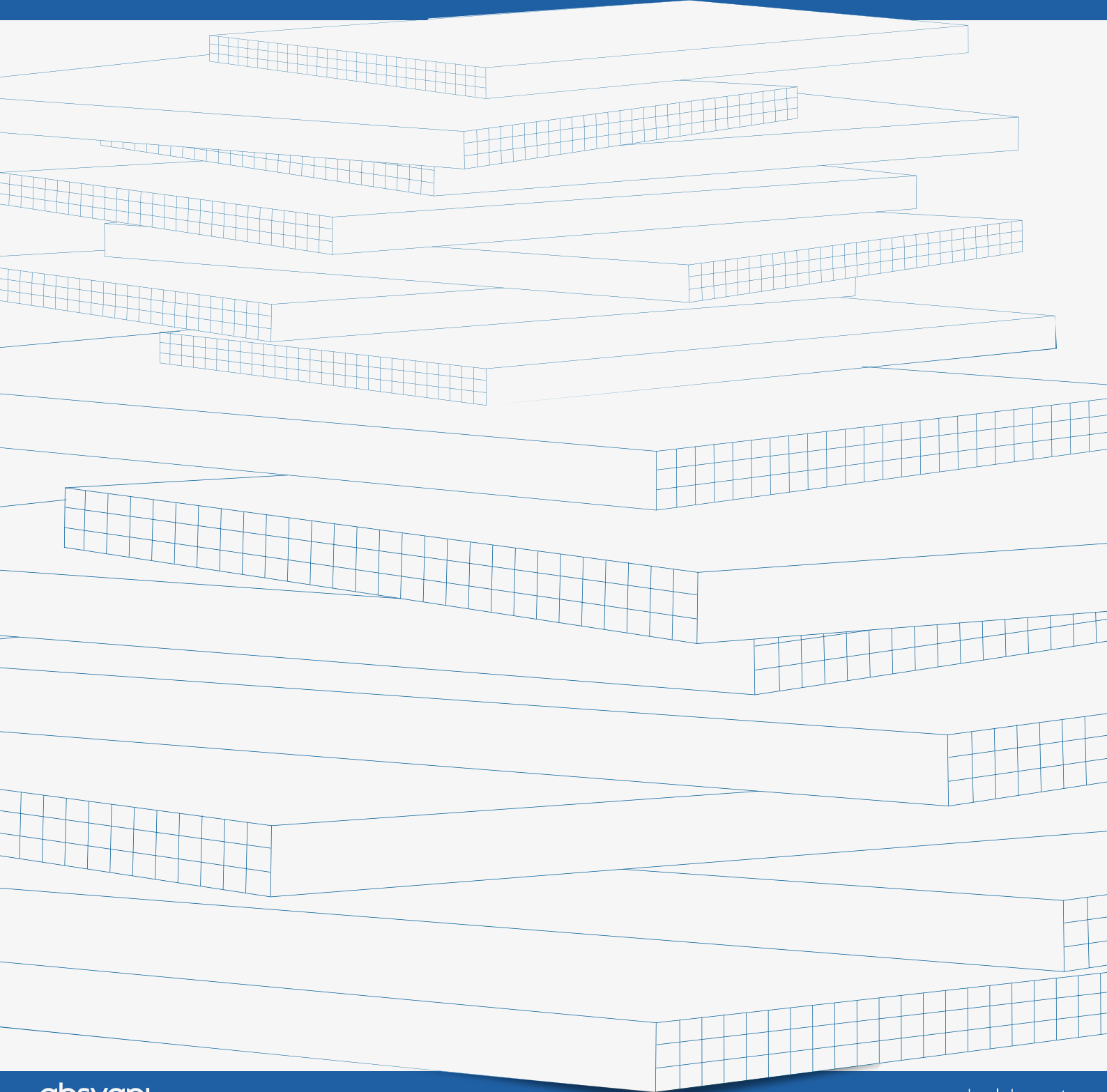


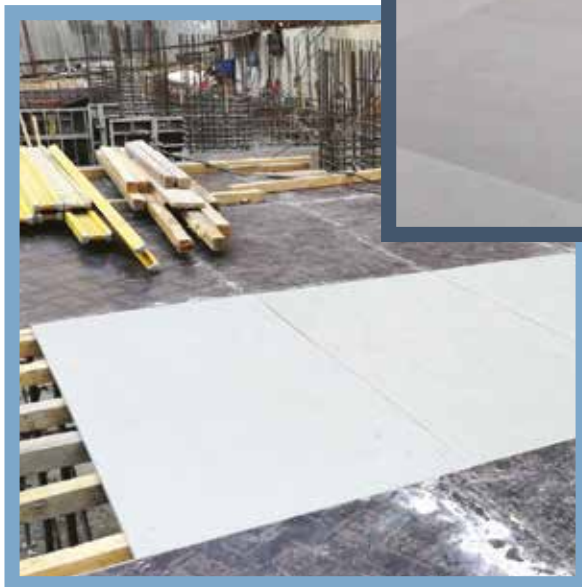
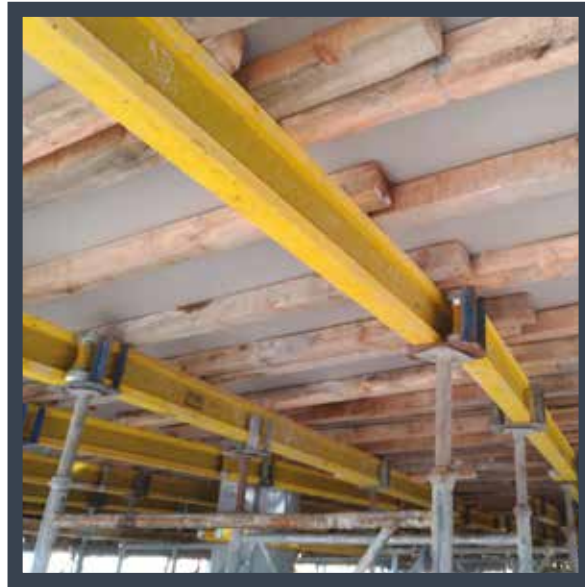


2. GENERATION POLYMER CONSTRUCTION FORMWORK LONG LASTING-VERSATILE-DURABLE



■ ■ ■ Product Specifications

Second generation polymer construction formwork EKOPLAK has been developed as an alternative to plywood boards, one of the most consumed supplies on any job site. EKOPLAK is more durable, could be used in every weather condition, has a longer life span and since it is completely recyclable it has a very low environment impact.



 **EKOPLAK**[®]
polymer construction formwork

Advantages



1 plate EKOPLAK:
1220 x 2440 x 18 mm



With its ideal size it guarantees maximum productivity, it could be used together with 18 mm standard plywood boards



In comparison to 1. generatio polymer construction formworks it is PP based, hence has smaller and more pores



It has a high impact resistance, won't break due to drops etc.



Because concrete does not adhere to the polymer surface it won't stick during removal



Could be cut and nailed just like plywood boards



Contrary to plywood boards, there is no scratch-induced deformation problem



Could be stored in every environment, goes unaffected by adverse storage conditions (water, moisture, insects, etc.)



Resistant to all weather conditions



Because it is recycled on kilogram basis, even the smallest piece gets not wasted



Long life span; the minimum life expectancy is 3 years even under most severe conditions



Could be used for columns, walls, slab and beams. Because it takes its original shape after bending, it is ideal for circular wall uses



FREQUENTLY ASKED QUESTIONS

- Can I hammer a nail into this product?

Yes, you can do all the applications on plywood also on Ekoplak.

- Can I use it for column as well as wall formworks?

Yes, it could be used for both purposes. If the grid support on the back of the panels matches laboratory results then the panels could be used in horizontal or vertical directions with confidence.

- Can I cut Ekoplak?

Yes, it could be cut easily. You may cut it with any regular circular saw. However, instead of cutting the product, we advise to use plywood pieces on the edges, thus making the product more efficient and allowing it to be used for a longer period of time.

- Could it be recycled?

Yes, Ekoplak is made of polypropylene. We may get them back depending on the conditions of the product, or they could be sold as scrap to recycling companies by the kilo. Please contact us for more detailed recycling options.

- Can I use it with plywood?

Yes, you may. Because Ekoplak has a thickness of 18 mm, it could be easily used with standard 18 mm plywood.

- Does it gets affected by water or humidity?

No, Ekoplak goes completely unaffected by water or humidity. It could be stored in every environment.

Transversal Use Charts of Deflection and Strenght on Strong Section of Multi-Span EKOPLAK Formwork Surface

		Slab Concrete Thickness (cm)								Limit	
		10	12	15	18	20	25	30	35		40
Service Load (kN/m ²)		4.104	4.654	5.354	6.104	6.604	7.854	9.104	10.604	12.104	
Design Load (kN/m ²)		6.1404	6.8904	8.0154	9.1404	9.8904	11.7654	13.6404	15.5154	17.3904	
EI=		1.287 kNm ²								T=15°C	
Outer Spaning (cm)	15	0.011	0.012	0.015	0.017	0.018	0.021	0.025	0.029	0.033	2.111
	20	0.035	0.039	0.046	0.052	0.057	0.067	0.078	0.091	0.104	2.222
	25	0.086	0.096	0.112	0.128	0.138	0.164	0.191	0.222	0.253	2.333
	30	0.178	0.200	0.232	0.265	0.287	0.341	0.395	0.460	0.525	2.444
	35	0.330	0.370	0.430	0.491	0.531	0.631	0.372	0.852	0.973	2.556
	40	0.563	0.631	0.734	0.837	0.906	1.077	1.248	1.454	1.660	2.667
	45	0.902	1.011	1.176	1.341	1.451	1.725	2.000	2.329	2.659	2.778
	50	1.374	1.541	1.793	2.044	2.211	2.630	3.048	3.550	4.052	2.889
	55	2.012	2.257	2.624	2.992	3.237	3.850	4.463	5.198	5.933	3.000
	60	2.849	3.196	3.317	4.238	4.585	5.453	6.320	7.362	8.403	3.111
65	3.924	4.403	5.120	5.837	6.315	7.510	8.706	10.140	11.574	3.222	
70	5.279	5.922	6.886	7.851	8.494	10.102	11.709	13.639	15.568	3.333	
75	6.956	7.804	9.075	10.346	11.193	13.312	15.431	17.973	20.516	3.444	

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Vertical Use Charts of Deflection and Strenght on Strong Section of Multi-Span EKOPLAK Formwork Surface

		Concrete Casting Speed (m/h)					Limit	
		2	3	4	5	7		
Max. Concrete Pressure (kN/m ²)		39.0	49.0	59.0	69.0	79.0	89.0	
Slump: K2								
EI=		1.287 kNm ²					T=15°C	
Peat Span (cm)	20	0.334	0.420	0.506	0.591	0.677	0.763	3.222
	25	0.816	1.025	1.235	1.444	1.653	1.862	3.333
	30	1.692	2.126	2.560	2.994	3.428	3.862	3.444
	35	3.135	3.939	4.743	5.547	6.351	7.154	3.556
	40	5.348	6.720	8.091	9.462	10.834	12.205	3.667
Max. Concrete Pressure (kN/m ²)		46.0	60.0	74.0	88.0	102.0	116.0	
Slump: K3								
Peat Span (cm)	20	0.394	0.514	0.634	0.754	0.874	0.994	3.222
	25	0.963	1.256	1.548	1.841	2.134	2.427	3.333
	30	1.996	2.603	3.211	3.818	4.426	5.033	3.444
	35	3.698	4.823	5.949	7.074	8.199	9.325	3.556
	40	6.308	8.228	10.148	12.068	13.988	15.908	3.667

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