

## BETOFILM™ Data Sheet

BETOFILM™ concrete form plywood is produced in Finland in the same mills which manufacture FinnForm®, the industry benchmark for quality form plywood. BETOFILM™ utilizes an engineered lay up of Finnish Birch face veneers with alternating inner plies of Spruce and Birch. BETOFILM™ is recognized as a quality alternative to overlaid plywoods.

### Product Benefits:

1. 9-ply panel construction in both 5/8" and 3/4" thicknesses.
2. Phenolic Surface Film (167 g/m<sup>2</sup>) on both faces results in a balanced panel with two (2) working sides.
3. Finnish Birch hardwood face veneers are tight grained requiring fewer patches. This in turn greatly reduces grain/patch transfer in concrete surfaces.
4. Good reusability
5. Compatible with all quality release agents. Chemical reactive type release agents are recommended. Since the panel film surfaces are non-absorptive, less release agent is required. Panel should be dry, free of surface dust/dirt prior to initial pour. Panels should be properly cleaned and maintained between pours. (Follow release agent manufacturers application instruction.)
6. Available in 96" x 48".

**Note:** BETOFILM™ plywood is manufactured with face grain running in the narrow (4') direction unless otherwise noted.

BETOFILM™ forming plywood is bonded with phenolic resin adhesive which is weather and boil proof. The bonding meets the requirements of the following standards: BS6566 1985 Type WBP, DIN 68705, BFU 100, SFS2415 and PS1-95 (USA).

Please refer to BETOFILM™ Technical Bulletin "Care and Storage" for additional handling and usage information.

### BETOFILM™ 5/8" - Load Span Tables\*

Max. load lbf/ft <sup>2</sup> -			Moisture Content 15% (Dry)				Moisture Content 27% (Wet)			
Span Inch	MM		Deflection L/270	Bending strength	Rolling shear	Critical	Deflection L/270	Bending strength	Rolling shear	Critical
8	200	Parallel	4918	2218	1310	1310	3934	1553	786	786
		Perpendic	4444	1669	2058	1669	3556	1168	1235	1168
12	300	Parallel	1457	986	873	873	1166	690	524	524
		Perpendic	1317	742	1372	742	1053	519	823	519
16	400	Parallel	615	555	655	555	492	388	393	388
		Perpendic	556	417	1029	417	444	292	618	292
19.2	480	Parallel	356	385	546	356	285	270	327	270
		Perpendic	321	290	858	290	257	203	515	203
24	600	Parallel	182	246	437	182	146	173	262	146
		Perpendic	165	185	686	165	132	130	412	130

### BETOFILM™ 3/4" - Load Span Tables\*

Max. load lbf/ft <sup>2</sup> -			Moisture Content 15% (Dry)				Moisture Content 27% (Wet)			
Span Inch	MM		Deflection L/270	Bending strength	Rolling shear	Critical	Deflection L/270	Bending strength	Rolling shear	Critical
8	200	Parallel	6522	2564	1497	1497	5218	1795	898	898
		Perpendic	7272	2383	2353	2353	5817	1668	1411	1411
12	300	Parallel	1933	1140	998	998	1546	798	599	599
		Perpendic	2155	1059	1568	1059	1724	741	941	741
16	400	Parallel	815	641	749	641	652	449	449	449
		Perpendic	909	596	1176	596	727	417	706	417
19.2	480	Parallel	472	445	624	445	377	312	374	312
		Perpendic	526	414	980	414	421	289	588	289
24	600	Parallel	242	285	499	242	193	199	299	193
		Perpendic	269	265	784	265	216	185	471	185

\*Plywood continuous over two (2) or more spans.  
Support width minimum 1 1/2".

## BETOFILM™ Data Sheet

### Allowable Stresses for BETOFILM™

A = Moisture Content less than 19%

B = Moisture Content 19% to 28%

Type of Stress	A Effective Cross-section lbs./sq. in.	B Effective Cross-section lbs./sq. in.
Extreme fibre in bending		
Face grain parallel to span	4000	2800
Face grain perpendicular to span	2100	1500
Tension		
Face grain parallel to span	3800	3200
Face grain perpendicular to span	1500	1300
Compression		
Face grain parallel to span	2300	1700
Face grain perpendicular to span	1400	1000

### Recommended Moduli of Elasticity for BETOFILM™

A = Moisture Content less than 19%

B = Moisture Content 19% to 28%

Type of Stress	A Effective Cross-section lbs./sq. in.	B Effective Cross-section lbs./sq. in.
Bending & Tension & Compression		
Face Grain parallel to span	2,200,000	1,760,000
Face Grain perpendicular to span	1,760,000	1,350,000

### Moments of Inertia, Section Moduli and Areas for BETOFILM™

All values are effective, calculated with the theoretical medium thickness.

Sanded Plywood Thickness		No. of Plies	Face grain parallel to span- 12" widths			Face grain perpendicular to span- 12" widths		
Nominal	Actual		Area Inches <sup>2</sup>	Section Modulus Inches <sup>3</sup>	Moments of Inertia Inches <sup>4</sup>	Area Inches <sup>2</sup>	Section Modulus Inches <sup>3</sup>	Moments of Inertia Inches <sup>4</sup>
5/8"	0.661"	9	3.02	0.359	0.1327	4.91	0.516	0.1566
3/4"	0.756"	9	3.02	0.413	0.176	6.05	0.738	0.2559

Weight: 5/8"-2.1 lbs/ft<sup>2</sup>; 3/4"-2.4 lbs/ft<sup>2</sup>

BETOFILM™ is a registered trademark of Schauman Wood Oy.

The data shown in this brochure supercedes and replaces all previously published data for this product. January 2000