



The world leader in birch plywood
production



Presentation Brochure

SVEZA BIRCH PLYWOOD

Products and Applications

www.sveza.com



SVEZA IS THE WORLD LEADER IN BIRCH PLYWOOD PRODUCTION

SVEZA group is a Russian company, the world leader in the birch plywood market. SVEZA products have earned customer loyalty in 70 countries across the world. They are used in high-rise building and Olympic venue construction, long-haul trailer and high-speed train production, and eco-friendly furniture and trendy interior design.

The company is on the Russian market since 1998. Along the way, SVEZA has upgraded its production with the cutting edge technology and equipment. SVEZA Group's annual production is 102 million m² (1.3 million m³).

SVEZA is committed to responsible use of forest resources, which is confirmed by international FSC[™] certificates.

*FSC (Forest Stewardship Council®) is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests.

SVEZA IN FIGURES

1 260 000 m³ of wood boards annually

200+ sizes and thicknesses

100% birch veneer

70 purchasing countries

6 mills

SVEZA – 100% BIRCH PLYWOOD



Exceptional durability



Hard surface



Unique load capacity



Keeps its properties through a temperature range of -40°C to +50°C (-40°F to +122°F)



Attractive wood texture



Easy handling





SVEZA INTERIOR BIRCH PLYWOOD



SVEZA INTERIOR BIRCH PLYWOOD

SVEZA Interior Birch Plywood is easy to process and goes well together with finish materials. This type of plywood is ideal for indoor use.

Key benefits

-  **Durable and wear resistant**
-  **Hard surface**
-  **Higher water-resistance**
-  **Comes in a variety of thicknesses and sizes**

Technical specifications

Standard sizes, length x width, mm (ft)	1525x1525 (5x5) 2440/2500x1500/1525 (8x5)
Thickness, mm	3-25
Plywood grade	I (B, S), II (BB), III (CP), IV (C)
Surface type	Outer layers sanded (S2S), one side sanded (S1S), unsanded (NS)
Formaldehyde emission class	E1
Waterproofness	Normal
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	—
Plywood is produced under STO 00255177-001-2013 "General purpose plywood with birch face veneers."*	

Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-40	45
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		3-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-40	5000
	across the grain		3000

*For STO 00255177-001-2013, visit "Certificates" section of www.sveza.com website.

SVEZA EXTERIOR BIRCH PLYWOOD



SVEZA EXTERIOR BIRCH PLYWOOD

SVEZA Exterior Birch Plywood maintains its performance characteristics under conditions of high humidity and does not deform or soak. It can be used in both interior and exterior finish.

Key benefits

- Higher water resistance
- Durable and wear resistant
- Hard surface
- Resistance to temperature variation: through a range of -40°C to +50°C (-40°F to +122°F)
- Comes in a variety of thicknesses and sizes

Technical specifications

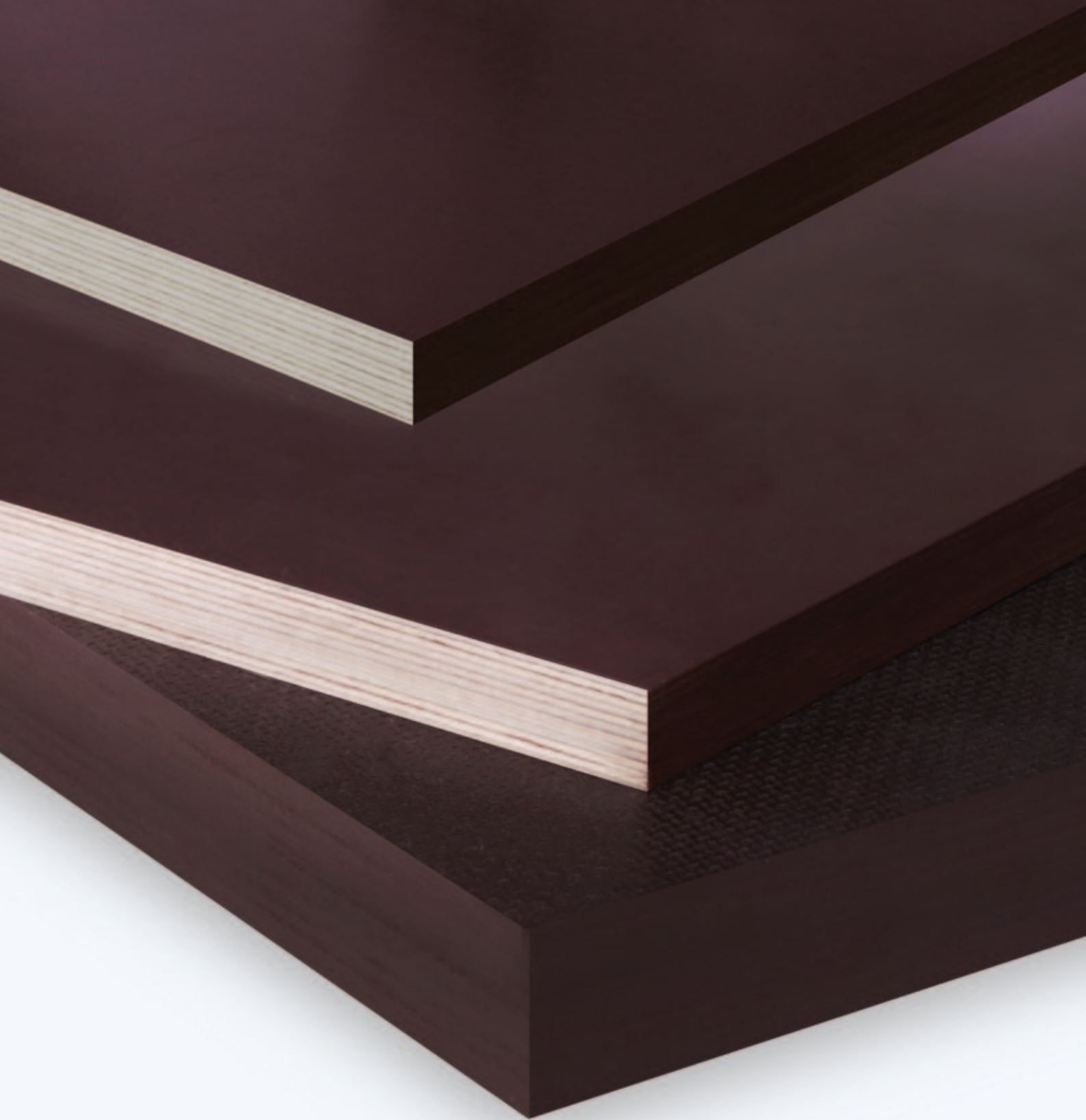
Standard sizes, length x width, mm (ft)	1525x1525 (5x5) 1220x2440x1220 (4x8x4) 1250x2500x1250 (4x8x4) 1500/1525x2440/2500 (5x8) 2440/2500x1500/1525 (8x5) 1500/1525x3000/3050 (5x10)
Thickness, mm	4-40
Plywood grade	I (B, S), II (BB), III (CP), IV (C)
Surface type	Outer layers sanded (S2S), one side sanded (S1S), unsanded (NS)
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	—
Plywood is produced under STO 00255177-001-2013 "General purpose plywood with birch face veneers."*	

Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-40	60
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		4-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-40	6000
	across the grain		3000

*For STO 00255177-001-2013, visit "Certificates" section of www.sveza.com website.

SVEZA FILM FACED BIRCH PLYWOOD



SVEZA FILM FACED BIRCH PLYWOOD

SVEZA Film Faced Birch Plywood is a high-quality exterior birch plywood with special coating of resin-treated paper that turns into protective film during production. Comes with smooth or mesh surface. Edges are sealed with water-dispersible acrylic paint. This type of plywood is widely used in the construction industry and vehicle production. It is easy to mount and work with.

Key benefits

- Highly wear resistant
- Resistant to most aggressive environments, including chemicals
- Higher water resistance
- Slip resistant (meshy surface)
- Durable
- Hard surface
- Resistance to temperature variation: through a range of -40°C to +50°C (-40°F to +122°F)
- Comes in a variety of thicknesses and sizes

Technical specifications

Standard sizes, length x width, mm (ft)	1220x2440x1220 (4x8x4) 1250x2500x1250 (4x8x4) 1500/1525x2440/2500 (5x8) 2440/2500x1500/1525 (8x5) 1500/1525x3000/3050 (5x10)
Thickness, mm	6-40
Surface type	Smooth/smooth (F/F), smooth/wire mesh (F/W)
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	Emulsion acrylic paint
Produced under STO 00255177-002-2014 "Film-faced birch plywood."*	

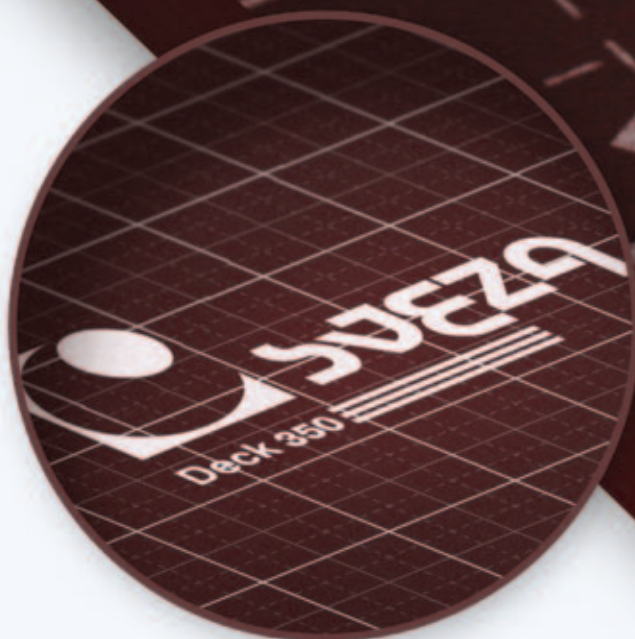
Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-40	60
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		6-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-40	6000
	across the grain		3000

*For STO 00255177-002-2014, visit "Certificates" section of www.sveza.com website.

SVEZA DECK 350

Specially
for slab formwork



SVEZA DECK 350



Special purpose plywood for slab formwork with layout grid

PATENTED TECHNOLOGY!*

SVEZA Deck 350 is a special film faced plywood with a grid pattern intended for slab formwork. It comes with 25, 50, and 100 mm grid patterns. This simplifies plywood laying-out and cutting, and reduces labor costs at the construction site. The pattern also can be used as the template for rebar placement.

SVEZA Deck 350 edges are coated with special acrylate-based waterborne Finnish-made paint with low water permeability. SVEZA Deck 350 surface is smooth, and coated with German-made wear resistant material (wearing capacity is 350 Taber test rotations).

Key benefits

-  **Grid Pattern:** easy to cut plywood and place reinforcement
-  **Edges:** increased moisture protection**

Technical specifications

Standard sizes, length x width, mm (ft)	1220x2440x1220 (4x8x4) 1250x2500x1250 (4x8x4)
Thickness, mm	18, 21
Surface type	Smooth/smooth (F/F)
Wear resistance	350 Taber test rotations
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	Special acrylate-based waterborne paint
Produced under STO 00255177-002-2014 "Film-faced birch plywood."***	

Strength specifications

Static bending strength, N/mm ² , not less	along the outer layer grain	60
	across the outer layer grain	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	6000
	across the grain	3000

*Production process of plywood with layout mesh is patented (registered in the National Register of Utility Models of the Russian Federation as of 20.01.15, RF Patent number 150519).

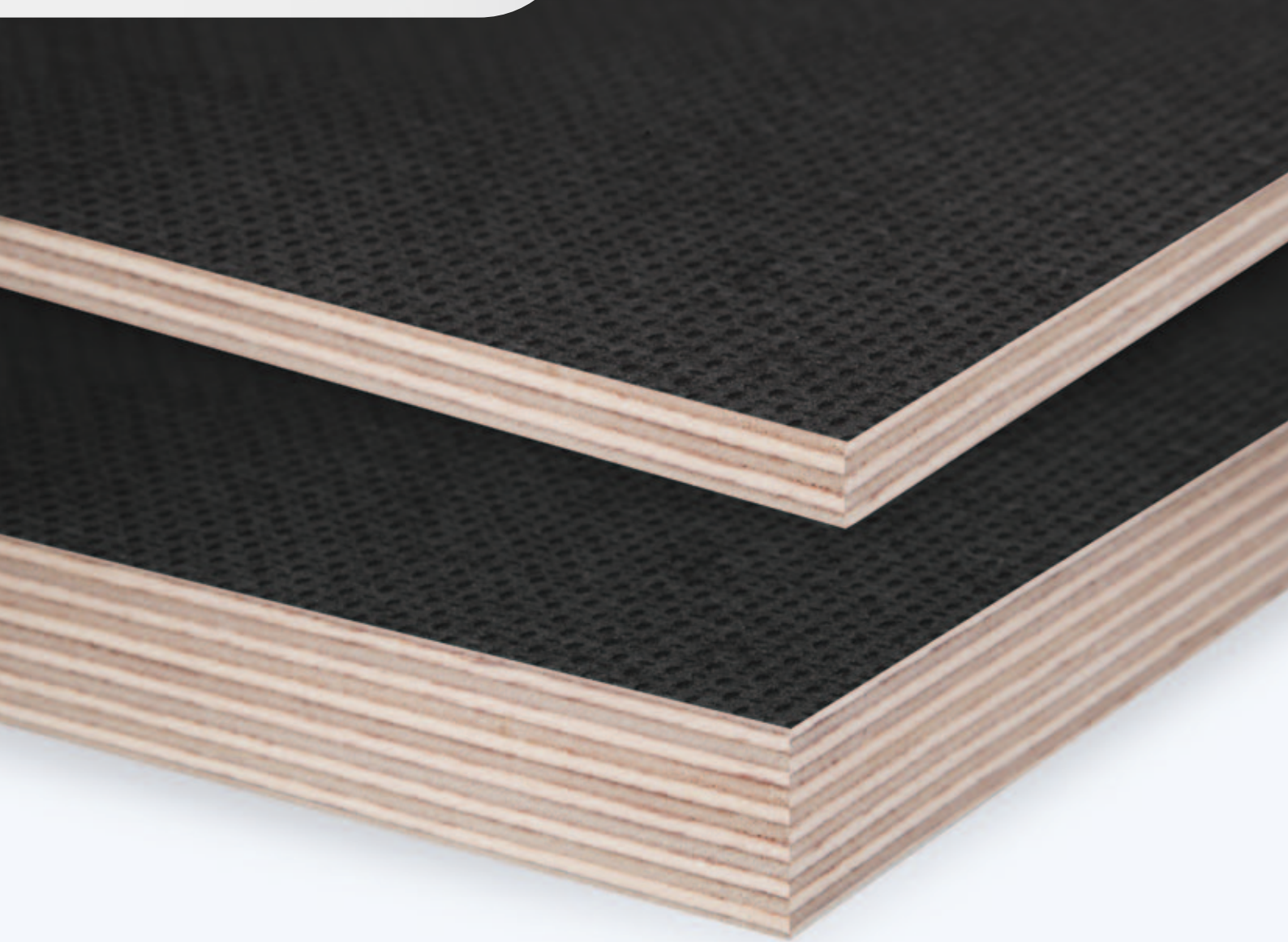
**Compared to the Russian-made water emulsion acrylic paint (Lakokraska Testing Center lab test protocol, 2011).

***For STO 00255177-002-2014, visit "Certificates" section of www.sveza.com website.

SVEZA TITAN

Increased
wear resistance

Up to 10 times higher
than the regular surface



SVEZA TITAN

SVEZA Titan is a special film faced plywood coated with German-made wear resistant material (wearing capacity at least 4000 Taber test rotations). SVEZA Titan's has up to 10 times higher wear resistance than plywood with regular surface.* This plywood has a mesh working surface. Its edges are protected with water-dispersible acrylic paint.

SVEZA Titan plywood is specially designed for applications where high wear resistance and anti-slip properties are required: vehicle floors, industrial flooring, load bearing platforms, storage racks.

Key benefits

- Increased wear resistance
- Maximum anti-slip protection

Technical specifications

Standard sizes, length x width, mm (ft)	1220/1250x2440/2500 (4x8) 1500/1525x2440/2500 (5x8) 1500/1525x3000/3050 (5x10)
Thickness, mm	6-40
Surface type	Smooth/wire mesh (F/W)
Wear resistance	At least 4000 Taber test rotations
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	Emulsion acrylic paint
Produced under STO 00255177-002-2014 "Film-faced birch plywood."***	

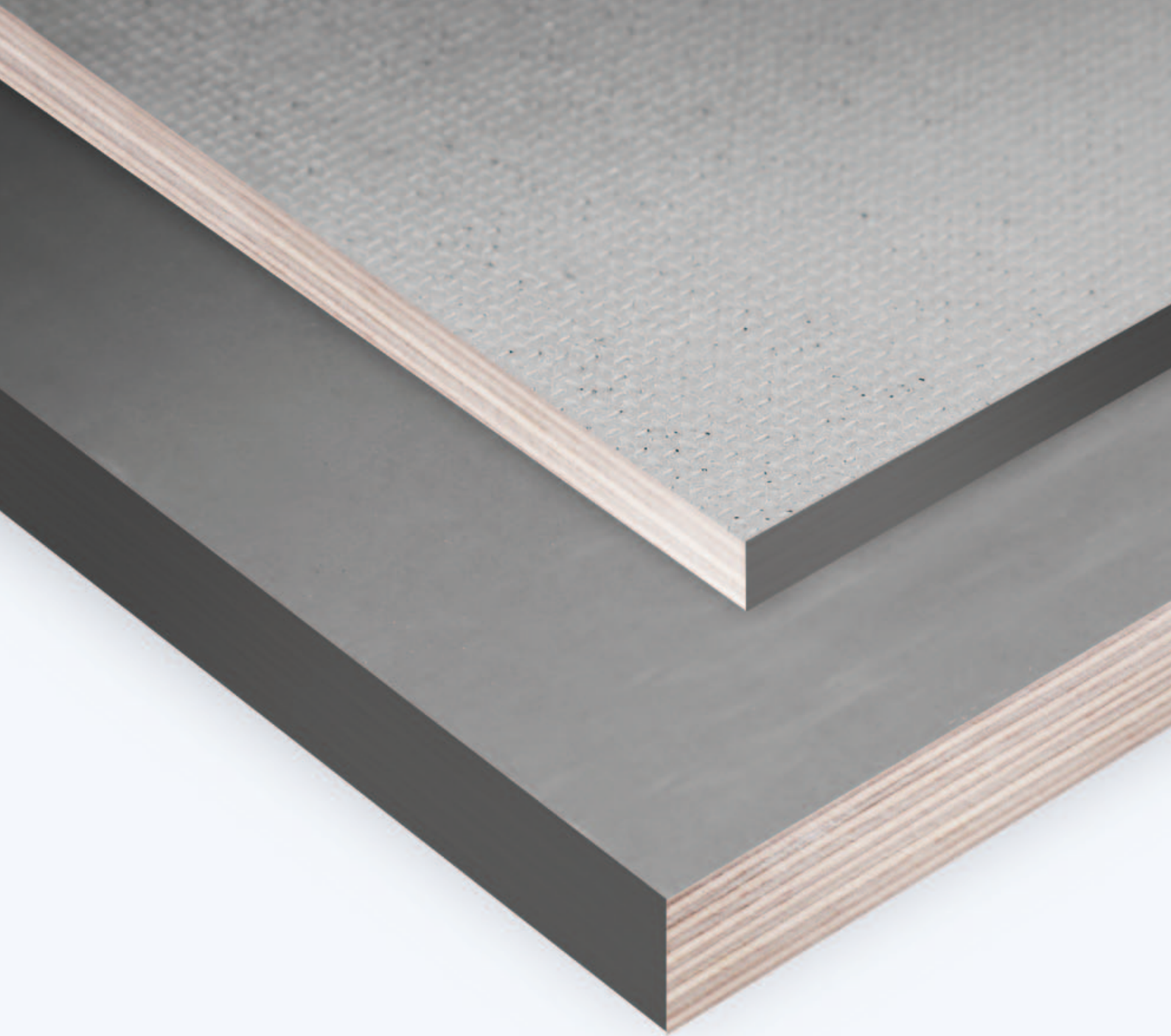
Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-40	60
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		6-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-40	6000
	across the grain		3000

*Standard surface of film-coated plywood with density of 120 g/m² (according to laboratory tests).

**For STO 00255177-002-2014, visit "Certificates" section of www.sveza.com website.

SVEZA COLOR GREY



SVEZA COLOR GREY

SVEZA Color Grey is a film faced plywood coated with a grey color wear-resistant material. Comes with smooth or mesh surface. Edges are sealed with water-dispersible acrylic paint.

SVEZA Color Grey plywood is designed for applications where grey colored surface is required: production of boats, commercial vehicle bodies and flooring, stages and racks, as well as playgrounds and sports grounds.

Technical specifications

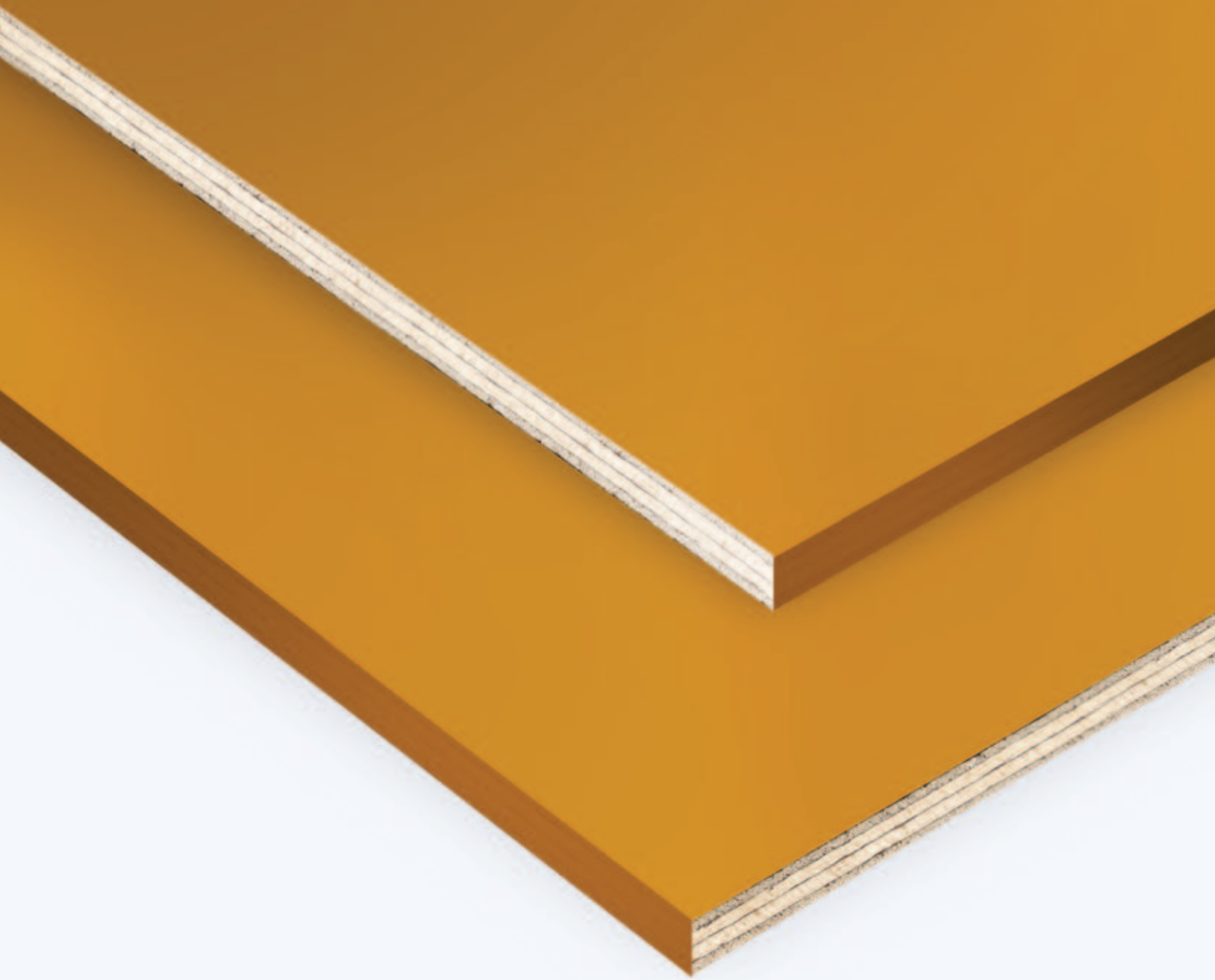
Standard sizes, length x width, mm (ft)	1200/1220/1250x2400/2440/2500 (4x8) 1500/1525x3000/3050 (5x10)
Thickness, mm	6-21
Surface type	Smooth/smooth (F/F), smooth/wire mesh (F/W)
Surface color	Grey
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	Grey painted/no painting
Produced under STO 00255177-002-2014 "Film-faced birch plywood."*	

Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-21	60
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		6-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-21	6000
	across the grain		3000

*For STO 00255177-002-2014, visit "Certificates" section of www.sveza.com website.

SVEZA COLOR YELLOW



SVEZA COLOR YELLOW

SVEZA Color Yellow is a film faced plywood coated with a yellow color wear-resistant material. Comes with smooth or mesh surface. Edges are sealed with water-dispersible acrylic paint.

SVEZA Color Yellow plywood is designed for interior finishing of farm structures, as well as for applications where a light colored surface is required.

Technical specifications

Standard sizes, length x width, mm (ft)	1200/1220/1250x2400/2440/2500 (4x8) 1500/1525x3000/3050 (5x10)
Thickness, mm	6-21
Surface type	Smooth/smooth (F/F), smooth/wire mesh (F/W)
Surface color	Yellow
Formaldehyde emission class	E1
Waterproofness	Higher
Density, kg/m ³	640-700
Moisture content, %	5-14
Edge sealing	Yellow painted/no painting
Produced under STO 00255177-002-2014 "Film-faced birch plywood."*	

Strength specifications

Subject		Thickness, mm	Index
Static bending strength, N/mm ² , not less	along the outer layer grain	9-21	60
	across the outer layer grain		30
Strength in tension along the grain, N/mm ² , not less		6-8	30
Modulus of elasticity in static bending, N/mm ² , not less	along the grain	9-21	6000
	across the grain		3000

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APPLICATIONS

Construction

Slab Formwork

Plywood: SVEZA Deck 350

Size: 4x8

Thickness: 18, 21

Surface: F/F

Vertical Formwork

Plywood: Film Faced

Size: 5x10

Thickness: 18, 21, 24

Surface: F/F

Concrete Slab Production

Plywood: Film Faced

Size: 4x8, 5x10

Thickness: 12, 18, 24

Surface: F/F



Scaffolding

Plywood: Exterior, Film Faced
Size: 4x8, 5x10
Thickness: 12, 15, 18
Grade: CP/C
Surface: F/W

Industrial Flooring (stairs, tribunes, bridges)

Plywood: SVEZA Titan
Size: 4x8, 5x8, 5x10
Thickness: 6-40
Surface: F/W

Farms and Farm Structures

Plywood: SVEZA Color Yellow
Size: 5x10
Thickness: 6-21
Surface: F/F (walls)



APPLICATIONS

Transport

Trailer&Semi-trailer

Plywood: Film Faced, SVEZA Titan

Size: 4x8, 5x10, 5x8

Thickness: 24, 27, 30, 35

Surface: F/W (flooring)

Goods Vans

Plywood: Exterior, Film Faced, SVEZA Titan

Size: 4x8, 5x10, 5x8

Thickness: 9, 12, 15, 18, 21, 24, 27

Grade: BB/BB, BB/CP, CP/CP (walls, doors)

Surface: F/W (flooring), F/F (walls, doors)

Light Commercial Vehicles

Plywood: Exterior, Film Faced,
SVEZA Color Grey

Size: 4x8, 5x10, 5x8

Thickness: 4, 5, 6, 9, 12, 15, 18

Grade: BB/BB, BB/CP, CP/CP (walls, doors)

Surface: F/W (flooring), F/F (walls)

Buses

Plywood: Exterior, Film Faced

Size: 5x10, 4x8

Thickness: 9, 12, 15, 18

Grade: CP/C (flooring)

Surface: F/F (walls), F/W (flooring)



APPLICATIONS

Packaging

Plywood: Exterior
Size: 5x5, 4x8, 5x10
Thickness: Thickness: 6-21
Grade: CP/C, C/C



APPLICATIONS

Furniture, Interior

Plywood: Interior, Exterior

Size: 5x5, 4x8x4, 5x10

Thickness: 3, 6, 9, 12, 15, 18, 21, 24

Grade: B/BB, S/BB, BB/BB, BB/CP, CP/C, C/C



APPLICATIONS

Flooring

Plywood: Exterior

Size: 4x8, 5x8

Thickness: 6, 9, 12

Grade: BB/CP, BB/C, CP/CP, CP/C

APPLICATIONS

Children's Toys and Outdoor Playsets

Plywood: Interior, Exterior, Film Faced,
SVEZA Color Grey
Size: 5x5, 4x8
Thickness: 3, 4, 6, 9, 12, 15, 18
Grade: B/BB, BB/BB, BB/CP
Surface: F/F, F/W

TECHNICAL INFO

Number of sheets and crate volume

Nominal thickness of plywood, mm	Crate height, mm	
	400	600
3	130	200
4	100	150
5	80	120
6	65	100
6,5	62	92
8	50	75
9	44	67
10	40	60
12	33	50
15	26	40
18	22	33
21	19	29
24	16	25
27	14	22
30	12	20
35	11	17
40	10	15

Tolerances

Nominal thickness, mm	Number of plies	Sanded plywood		Unsanded plywood	
		Tolerance, mm	Max difference in measurements, mm	Tolerance, mm	Max difference in measurements, mm
3	3	+ 0,3; - 0,4	0,6	+ 0,4; - 0,3	0,6
4	3	+ 0,3; - 0,5		+ 0,8; - 0,4	1,0
5	4/5	+ 0,4; - 0,5		+ 0,8; - 0,4	
6	5	+ 0,4; - 0,5		+ 0,9; - 0,4	
6,5	5	+ 0,4; - 0,5		+ 0,9; - 0,4	
8	6/7	+ 0,4; - 0,5		+ 1,0; - 0,5	
9	7	+ 0,4; - 0,6		+ 1,0; - 0,5	
10	7/8	+ 0,5; - 0,6		+ 1,0; - 0,5	1,5
12	9	+ 0,5; - 0,7		+ 1,1; - 0,6	
15	11	+ 0,6; - 0,8		+ 1,2; - 0,7	
18	13	+ 0,7; - 0,9		+ 1,3; - 0,8	
21	15	0,0; - 1,1		+ 1,0; - 1,1	
24	17	0,0; - 1,5	1,0	+ 1,0; - 1,5	2,0
27	19	0,0; - 1,8		+ 1,5; - 1,8	
30	21	0,0; - 2,0		+ 1,6; - 2,0	
35	25	0,0; - 2,0		+ 1,6; - 2,0	
40	28/29	+ 1,2; - 1,2		+ 1,6; - 2,0	

Plywood with other thicknesses, sizes, number of plies and tolerances are available by special order.

Size tolerances

Length or width of plywood sheets, mm	Tolerance, mm
1220, 1250	±3,0
1500, 1525	±4,0
2440, 2500	±4,0
3000, 3050	±5,0

Other sizes are available by special order.
Length of plywood panels is defined along the grain of outer layers.

Transport loading capacity

Size, ft	Crate height, mm	Container		Truck		Railcar (138 m³)	
		Quantity of crates	Volume, m³	Quantity of crates	Volume, m³	Quantity of crates	Volume, m³
5x5	400	40	36-37	32	30	62-82	58-75
4x8x4 (1250x2500x1250 mm) Exterior Plywood	400	29-30	36-37	24	30	60-74	75-92
	600	—		16	30	45	84
4x8x4 (1220x2440x1220 mm) Exterior Plywood	400	30-31	36-37	25	30	60-74	71-88
	600	—		16	30	45	80
4x8x4 (1250x2500x1250 mm) Film Faced Plywood	400	28-29	35-36,5	23-24	29-30	60-74	75-92
	600	—		16	30	45	84
4x8x4 (1220x2440x1220 mm) Film Faced Plywood	400	29-30	35-36	24	29	60-74	71-88
	600	—		16	29	45	80
5x8x5	400	25	38	20	30	48	70
	600	—		13	30	—	
5x10	400	19	35	16	30	34	60
	600	—		11	30	—	

The actual loading capacity standards can differ from the basic standards, depending on the terms agreed upon with the client.

Distance from the SVEZA mills to Moscow

Plywood mill	Distance, km
SVEZA Ust-Izhora, St. Petersburg	685
SVEZA Kostroma, Kostroma	412
SVEZA Novator, Vologda region	1024
SVEZA Uralskiy, Perm territory	1411
SVEZA Manturovo, Kostroma region	671
SVEZA Verhnaya Sinyachiha, Sverdlovsk region	2000

Certificates



SVEZA AROUND THE WORLD

SVEZA plywood is popular in over 70 countries across the world





Sweden
Nefab industrial
packaging



Russia
Sochi 2014
Olympic venues



Russia
Moscow City
Business Center



Russia
ST Nizhegorodets light
commercial vehicles



Kuwait
Al Hamra
Tower



Oman
Royal Opera
Theater



Italy
Listone Giordano
flooring



Italy
Bellotti
high-speed trains



China
HAPE toys
for IKEA



Korea
Daeboong
furniture



South Africa
FIFA 2010 World
Cup venues



The world leader in birch plywood
production

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