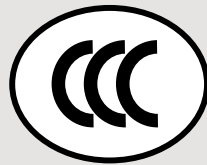


Certificates

Sertifikalar



Technical Characteristics

Teknik özellikler

Kalesinterflex Slab 6 - 12 mm

	Norm- test method	Requirements for nominal size N		KALE 1620X3230 (mm) Non-rectified"			KALE 1600X3200R (mm) Rectified"		KALE 800X2800R (mm) Rectified"		KALE 800X3200R (mm) Rectified"		
		N≥15 cm		Matte	Polished			Matte	Polished	Matte	Polished	Matte	Polished
		%(for rectified)	mm (for rectified)										
Length and width	ISO 10545-2	± 0,3	± 1	N.A.	N.A.		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
		± 0,5	± 0,5	N.A.	N.A.		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
Straightness of sides		± 0,3	± 0,8	N.A.	N.A.		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
Rectangularity (Measurement only on short edges when L/l ≥ 3)		± 0,3	± 1,5	N.A.	N.A.		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
Surface flatness		c.c. ± 0,4	c.c. ± 1,8	N.A.	N.A.		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
	e.c. ± 0,4	e.c. ± 1,8	N.A.	N.A.									
		w. ± 0,4	w. ± 1,8	N.A.	N.A.								
Water absorption	ISO 10545-3	Ev ≤ 0,5% Individual max 0,6%		≤ 0,1 %	≤ 0,1 %		≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	
Breaking strength	ISO 10545-4	for thickness < 7,5mm S ≥ 700 N for thickness ≥ 7,5mm S ≥ 1300 N"		6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N		6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N"	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N"	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N	6 mm -> S ≥ 700N 12 mm -> S ≥ 4000N	
Modulus of rupture		R ≥ 35 N/mm²		6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²		6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	6 mm -> R ≥ 35 N/mm² 12 mm -> R ≥ 45 N/mm²	
Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value		≥ 55	≥ 55		≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	
Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm³		Suitable	Suitable		Suitable	Suitable	Suitable	Suitable	Suitable	Suitable	
Coefficient of thermal linear expansion	ISO 10545-8	Declared value		≤ 7 MK-1	≤ 7 MK-1		≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1	
Thermal shock resistance	ISO 10545-9	Pass according to EN ISO 10545-1		Resistant	Resistant		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	
Moisture expansion (in mm/m)	ISO 10545-10	Declared value		≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)		≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	
Frost resistance	ISO 10545-12	Pass according to EN ISO 10545-1		Resistant	Resistant		Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	
Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared value		≥ 0,5 N/mm²	≥ 0,5 N/mm²		≥ 0,5 N/mm²	≥ 0,5 N/mm2²	≥ 0,5 N/mm²	≥ 0,5 N/mm²	≥ 0,5 N/mm²	≥ 0,5 N/mm²	
Reaction to fire	-	A1 or Afl		A1 without fiberglass	A1 without fiberglass		A1 without fiberglass	A1 without fiberglass	A1 without fiberglass	A1 without fiberglass	A1 without fiberglass	A1 without fiberglass	
Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B		A	A		A	A	A	A	A	A	
Resistance to low concentrations of acids and alkalis		Declared value		LA	LA		LA	LA	LA	LA	LA	LA	
Resistance to high concentrations of acids and alkalis		Declared value		HA	-		HA	-	HA	-	HA	-	
Resistance to staining	ISO 10545-14	Declared value		5	5		5	5	5	5	5	5	
Release of dangerous substances: Cadmi-um (in mg/dm²) and Lead (in mg/dm²)	ISO 10545-15	Declared value		≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb"	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb		≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb"	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb"	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	

Technical Characteristics

Teknik özellikler

Kalesinterflex 3 mm

	Norm - test method	Requirements for nominal size N		KALE 1000X3000R (mm) Rectified		KALE 1200X3600R (mm) Rectified	
		N≥15 cm		Matte	Polished	Matte	Polished
		% (for rectified)	mm (for rectified)				
Length and width	ISO 10545-2	± 0,3	± 1	Suitable	Suitable	Suitable	Suitable
Thickness		± 0,5	± 0,5	Suitable	Suitable	Suitable	Suitable
Straightness of sides		± 0,3	± 0,8	Suitable	Suitable	Suitable	Suitable
Rectangularity (Measurement only on short edges when L/l ≥ 3)		± 0,3	± 1,5	Suitable	Suitable	Suitable	Suitable
Surface flatness		c.c. ± 0,4	c.c. ± 1,8	Suitable	Suitable	Suitable	Suitable
		e.c. ± 0,4	e.c. ± 1,8				
		w. ± 0,4	w. ± 1,8				
Water absorption	ISO 10545-3	Ev ≤ 0,5% Individual max 0,6%		≤ 0,3 %	≤ 0,3 %	≤ 0,3 %	≤ 0,3 %
Modulus of rupture	ISO 10545-4	R ≥ 35 N/mm²		3 mm -> R ≥ 45 N/mm²	3 mm -> R ≥ 45 N/mm²	3 mm -> R ≥ 45 N/mm²	3 mm -> R ≥ 45 N/mm²
Impact resistance, as coefficient of restitution		Declared value		≥ 55	≥ 55	≥ 55	≥ 55
Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm³		Suitable	Suitable	Suitable	Suitable
Coefficient of thermal linear expansion	ISO 10545-8	Declared value		≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1	≤ 7 MK-1
Thermal shock resistance	ISO 10545-9	Pass according to EN ISO 10545-1		Resistant	Resistant	Resistant	Resistant
Moisture expansion (in mm/m)	ISO 10545-10	Declared value		≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)
Frost resistance	ISO 10545-12	Pass according to EN ISO 10545-1		Resistant	Resistant	Resistant	Resistant
Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared value		≥ 0,5 N/mm²	≥ 0,5 N/mm²	≥ 0,5 N/mm²	≥ 0,5 N/mm²
Reaction to fire	-	A1 or Afl		A1 without fiberglass	A1 without fiberglass	A1 without fiberglass	A1 without fiberglass
Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B		A	A	A	A
Resistance to low concentrations of acids and alkalis		Declared value		LA	LA	LA	LA
Resistance to high concentrations of acids and alkalis		Declared value		HA	-	HA	-
Resistance to staining		Declared value		5	5	5	5
Release of dangerous substances: Cadmium (in mg/dm²) and Lead (in mg/dm²)	ISO 10545-15	Declared value		≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb	≤ 0,01 mg/dm² Cd ≤ 0,1 mg/dm² Pb

Packaging and Shipping Details

Paketleme ve Gönderim Detayları

			Pallet Detail			Trailer			20' Container			40' Container		
Product Size cm	Pallet Size cm	Product Group	Units per Item	Product m²	Gross kg	Units per Pallet	Total m²	Gross kg	Units per Pallet	Total m²	Gross kg	Units per Pallet	Total m²	Gross kg
100X300cm	114X317X40	3MM PLAIN	50	150,00	1.365	19	2.850	25.935	10	1.500	13.650	19	2.850	25.935
100X300cm	114X317X40	6MM PLAIN	30	90,00	1.440	18	1.620	25.920	10	900	14.400	18	1.620	25.920
100X300cm	114X317X40	3MM FIT	45	135,00	1.260	20	2.700	25.200	10	1.350	12.600	19	2.565	23.940
100X300cm	114X317X40	6MM FIT	26	78,00	1.350	19	1.482	25.650	10	780	13.500	18	1.404	24.300
100X300cm	114X317X40	3+3 LAMINEX	26	78,00	1.350	19	1.482	25.650	10	780	13.500	18	1.404	24.300
100X300cm	114X317X40	6+6 LAMINEX	14	42,00	1.440	18	756	25.920	10	420	14.400	18	756	25.920
100X150cm	113X163X40	3MM PLAIN	50	75,00	615	36	2.700	22.140	30	2.250	18.450	36	2.700	22.140
100X150cm	113X163X40	6MM PLAIN	30	45,00	720	36	1.620	25.920	30	1.350	21.600	36	1.620	25.920
100X150cm	113X163X40	3MM FIT	45	67,50	630	36	2.430	22.680	30	2.025	18.900	36	2.430	22.680
100X150cm	113X163X40	6MM FIT	26	39,00	675	36	1.404	24.300	30	1.170	20.250	36	1.404	24.300
100X150cm	113X163X40	3+3 LAMINEX	26	39,00	675	36	1.404	24.300	30	1.170	20.250	36	1.404	24.300
100X150cm	113X163X40	6+6 LAMINEX	14	21,00	720	36	756	25.920	30	630	21.600	36	756	25.920
100X100cm	113X113X40	3MM PLAIN	50	50,00	410	50	2.500	20.500	50	2.500	20.500	50	2.500	20.500
100X100cm	113X113X40	6MM PLAIN	30	30,00	480	50	1.500	24.000	50	1.500	24.000	50	1.500	24.000
100X100cm	113X113X40	3MM FIT	45	45,00	420	50	2.250	21.000	50	2.250	21.000	50	2.250	21.000
100X100cm	113X113X40	6MM FIT	26	26,00	450	50	1.300	22.500	50	1.300	22.500	50	1.300	22.500
100X100cm	113X113X40	3+3 LAMINEX	26	26,00	450	50	1.300	22.500	50	1.300	22.500	50	1.300	22.500
100X100cm	113X113X40	6+6 LAMINEX	14	14,00	480	50	700	24.000	50	700	24.000	50	700	24.000
50X300cm	114X317X40	3MM PLAIN	100	150,00	1.230	19	2.850	23.370	10	1.500	12.300	19	2.850	23.370
50X300cm	114X317X40	6MM PLAIN	60	90,00	1.440	19	1.710	27.360	10	900	14.400	18	1.620	25.920
50X300cm	114X317X40	3MM FIT	90	135,00	1.260	20	2.700	25.200	10	1.350	12.600	19	2.565	23.940
50X300cm	114X317X40	6MM FIT	52	78,00	1.350	19	1.482	25.650	10	780	13.500	18	1.404	24.300
50X300cm	114X317X40	3+3 LAMINEX	52	78,00	1.350	19	1.482	25.650	10	780	13.500	18	1.404	24.300
50X300cm	114X317X40	6+6 LAMINEX	28	42,00	1.440	19	798	27.360	10	420	14.400	18	756	25.920
50X150cm	113X163X40	3MM PLAIN	100	75,00	615	36	2.700	22.140	30	2.250	18.450	36	2.700	22.140
50X150cm	113X163X40	6MM PLAIN	60	45,00	720	36	1.620	25.920	30	1.350	21.600	36	1.620	25.920
50X150cm	113X163X40	3MM FIT	90	67,50	630	36	2.430	22.680	30	2.025	18.900	36	2.430	22.680
50X150cm	113X163X40	6MM FIT	52	39,00	675	36	1.404	24.300	30	1.170	20.250	36	1.404	24.300
50X150cm	113X163X40	3+3 LAMINEX	52	39,00	675	36	1.404	24.300	30	1.170	20.250	36	1.404	24.300
50X150cm	113X163X40	6+6 LAMINEX	28	21,00	720	36	756	25.920	30	630	21.600	36	756	25.920
50X100cm	113X113X40	3MM PLAIN	100	50,00	410	50	2.500	20.500	50	2.500	20.500	50	2.500	20.500
50X100cm	113X113X40	6MM PLAIN	60	30,00	480	50	1.500	24.000	50	1.500	24.000	50	1.500	24.000
50X100cm	113X113X40	3MM FIT	90	45,00	420	50	2.250	21.000	50	2.250	21.000	50	2.250	21.000
50X100cm	113X113X40	6MM FIT	52	26,00	450	50	1.300	22.500	50	1.300	22.500	50	1.300	22.500
50X100cm	113X113X40	3+3 LAMINEX	52	26,00	450	50	1.300	22.500	50	1.300	22.500	50	1.300	22.500
50X100cm	113X113X40	6+6 LAMINEX	28	14,00	480	50	700	24.000	50	700	24.000	50	700	24.000

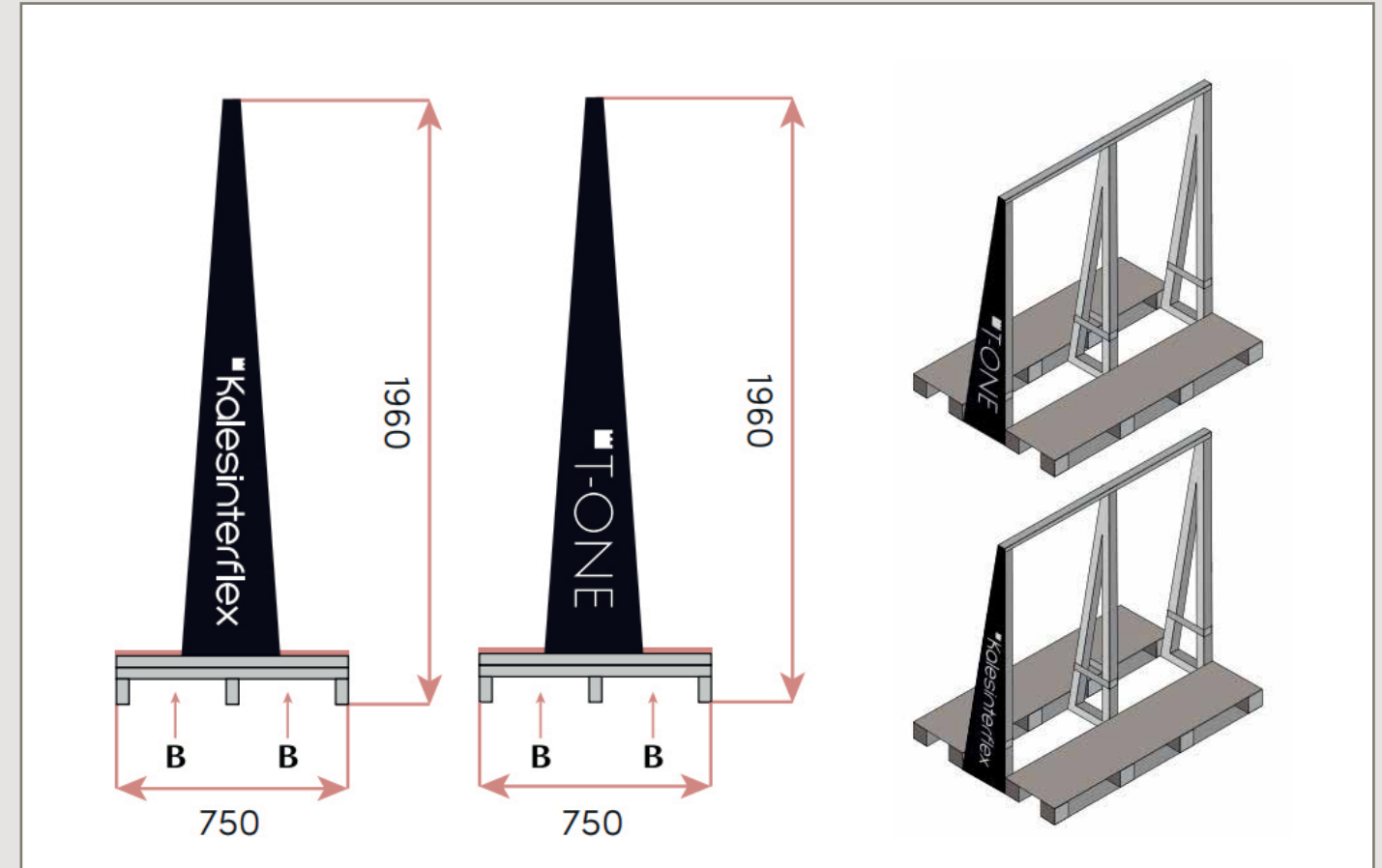
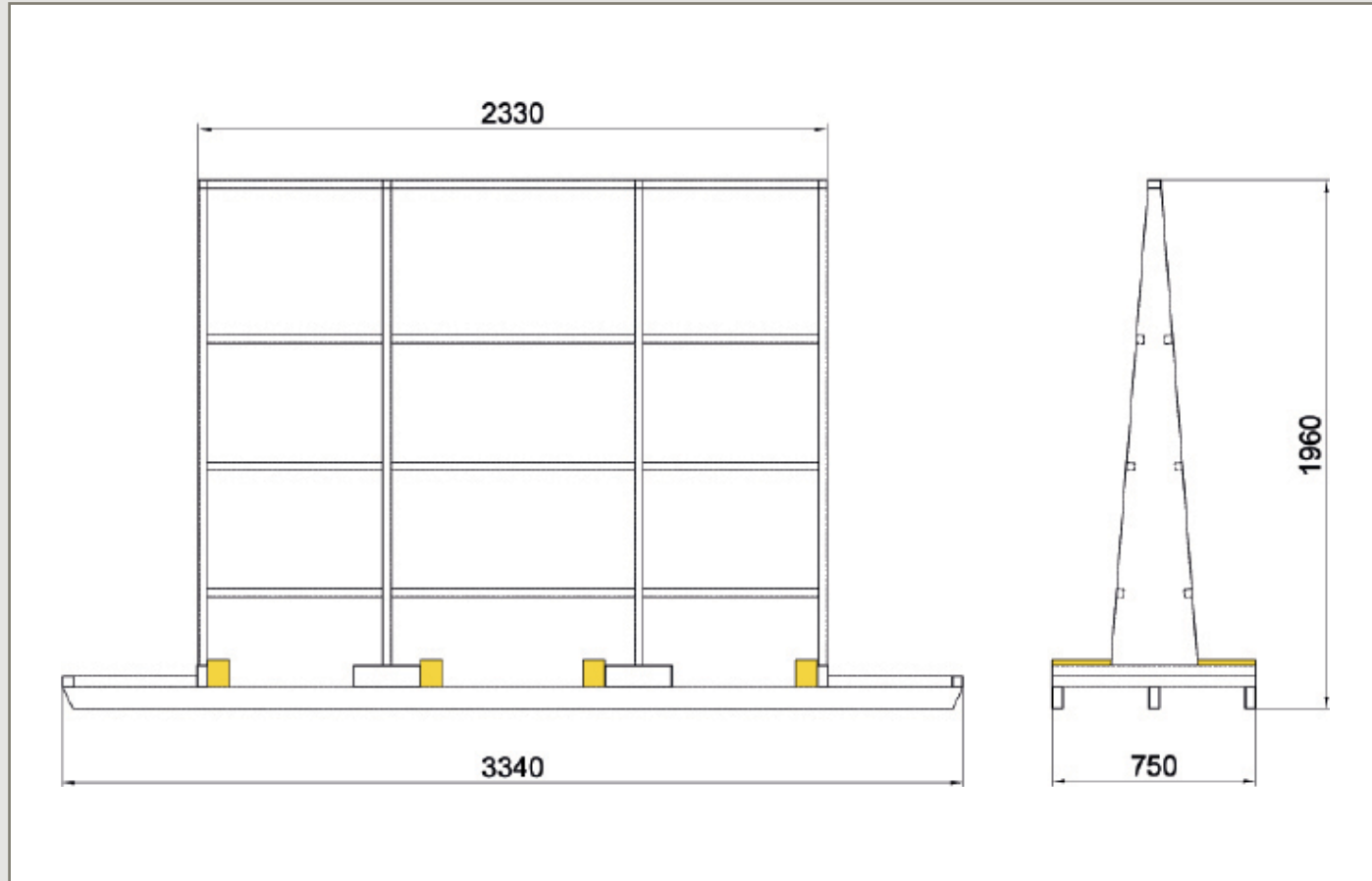
			Pallet Detail			Trailer			20' Container			40' Container		
Product Size cm	Pallet Size cm	Product Group	Units per Item	Product m²	Gross kg	Units per Pallet	Total m²	Gross kg	Units per Pallet	Total m²	Gross kg	Units per Pallet	Total m²	Gross kg
120X360cm	134X377X34	3MM PLAIN	40	172,80	1.430	15	2.592	21.444	5	864	7.148	15	2.592	21.444
120X360cm	134X377X34	6MM PLAIN	22	95,04	1.551	15	1.426	23.258	5	475	7.753	15	1.426	23.258
120X360cm	134X377X34	3MM FIT	35	151,20	1.430	15	2.268	21.444	5	756	7.148	15	2.268	21.444
120X360cm	134X377X34	6MM FIT	20	86,40	1.516	15	1.296	22.740	5	432	7.580	15	1.296	22.740
120X360cm	134X377X34	3+3 LAMINEX	20	86,40	1.516	15	1.296	22.740	5	432	7.580	15	1.296	22.740
120X360cm	134X377X34	6+6 LAMINEX	10	43,20	1.516	15	648	22.740	5	216	7.580	15	648	22.740
120X180cm	134X193X34	3MM PLAIN	40	86,40	715	30	2.592	21.444	20	1.728	14.296	30	2.592	21.444
120X180cm	134X193X34	6MM PLAIN	22	47,52	775	30	1.426	23.258	20	950	15.506	30	1.426	23.258
120X180cm	134X193X34	3MM FIT	35	75,60	715	30	2.268	21.444	20	1.512	14.296	30	2.268	21.444
120X180cm	134X193X34	6MM FIT	20	43,20	758	30	1.296	22.740	20	864	15.160	30	1.296	22.740
120X180cm	134X193X34	3+3 LAMINEX	20	43,20	758	30	1.296	22.740	20	864	15.160	30	1.296	22.740
120X180cm	134X193X34	6+6 LAMINEX	10	21,60	758	30	648	22.740	20	432	15.160	30	648	22.740
120X120cm	134X134X34	3MM PLAIN	40	57,60	483	50	2.880	24.160	20	1.152	9.664	45	2.592	21.744
120X120cm	134X134X34	6MM PLAIN	22	31,68	524	50	1.584	26.176	20	634	10.470	45	1.426	23.558
120X120cm	134X134X34	3MM FIT	35	50,40	483	50	2.520	24.160	20	1.008	9.664	45	2.268	21.744
120X120cm	134X134X34	6MM FIT	20	28,80	512	50	1.440	25.600	20	576	10.240	45	1.296	23.040
120X120cm	134X134X34	3+3 LAMINEX	20	28,80	512	50	1.440	25.600	20	576	10.240	45	1.296	23.040
120X120cm	134X134X34	6+6 LAMINEX	10	14,40	512	50	720	25.600	20	288	10.240	45	648	23.040
60X360cm	134X377X34	3MM PLAIN	80	172,80	1.430	15	2.592	21.444	5	864	7.148	15	2.592	21.444
60X360cm	134X377X34	6MM PLAIN	44	95,04	1.551	15	1.426	23.258	5	475	7.753	15	1.426	23.258
60X360cm	134X377X34	3MM FIT	70	151,20	1.430	15	2.268	21.444	5	756	7.148	15	2.268	21.444
60X360cm	134X377X34	6MM FIT	40	86,40	1.516	15	1.296	22.740	5	432	7.580	15	1.296	22.740
60X360cm	134X377X34	3+3 LAMINEX	40	86,40	1.516	15	1.296	22.740	5	432	7.580	15	1.296	22.740
60X360cm	134X377X34	6+6 LAMINEX	20	43,20	1.516	15	648	22.740	5	216	7.580	15	648	22.740
60X180cm	134X193X34	3MM PLAIN	80	86,40	715	30	2.592	21.444	20	1.728	14.296	30	2.592	21.444
60X180cm	134X193X34	6MM PLAIN	44	47,52	775	30	1.426	23.258	20	950	15.506	30	1.426	23.258
60X180cm	134X193X34	3MM FIT	70	75,60	715	30	2.268	21.444	20	1.512	14.296	30	2.268	21.444
60X180cm	134X193X34	6MM FIT	40	43,20	758	30	1.296	22.740	20	864	15.160	30	1.296	22.740
60X180cm	134X193X34	3+3 LAMINEX	40	43,20	758	30	1.296	22.740	20	864	15.160	30	1.296	22.740
60X180cm	134X193X34	6+6 LAMINEX	20	21,60	758	30	648	22.740	20	432	15.160	30	648	22.740

Packaging and Shipping Details

Paketleme ve Gönderim Detayları

Packaging And Packages

A-Frame



Packaging and Shipping Details

Paketleme ve Gönderim Detayları

Quantity, Kilogram and Size Information of A-Frame;

Format/mm (vertical stacking)	Thickness (mm)	Pcs for A-Frame (Pcs/A- Frame)	M2 for A-Frame	Kg for A-Frame (A-Frame is included)	Full Size of A-Frame (cm)
Kaleinterflex 6 mm Full Length* 1620x3230 mm 63.7"x127.7"	6	44	230.2344	3335	328x76x197h
Kaleinterflex 12 mm Full Length* 1620x3230 mm 63.7"x127.7"	12	24	125.5824	3763	328x76x197h
Kaleinterflex 20 mm Full Length* 1620x3230 mm 63.7"x127.7"	20	12	62.7912	3101	328x76x197h

Information Regarding the A-Frame Carrying

Capacities of Containers and Trucks

Container Loading with A-frame (1620x3230 mm (63.7"x127.7"))									
Container Type	20" Container			40" Container			Truck (13.60m)		
The Thickness of the Slab (mm)	6	12	20	6	12	20	6	12	20
A-Frame That Can Be Loaded (Pieces)	3	3	3	7	7	7	7	7	7
Slabs That Can Be Loaded (Pcs)	132	72	36	308	168	84	308	168	84
Loadable Area (m2)	690.7	376.75	188.37	1611.64	879.08	439.54	1611.64	879.08	439.54
Maximum Total Weight (kg)	10.000	11.289	9.304	23.343	26.341	21.709	23.343	26.341	21.709

*"Furnace Slab" having untrimmed format. 5,2326 m2/piece-Empty A-Frame 121kg (metal)

* Empty weight of A-Frame 121kg (metal)