



WANHUA 万华 禾香



WANHUA Ecoboard HEXIANG GROUP CO.,LTD

Product Catalogue

Product Features



Regeneration and utilization of annual agricultural and forestry residues, turning waste into treasure.

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MDI Resin

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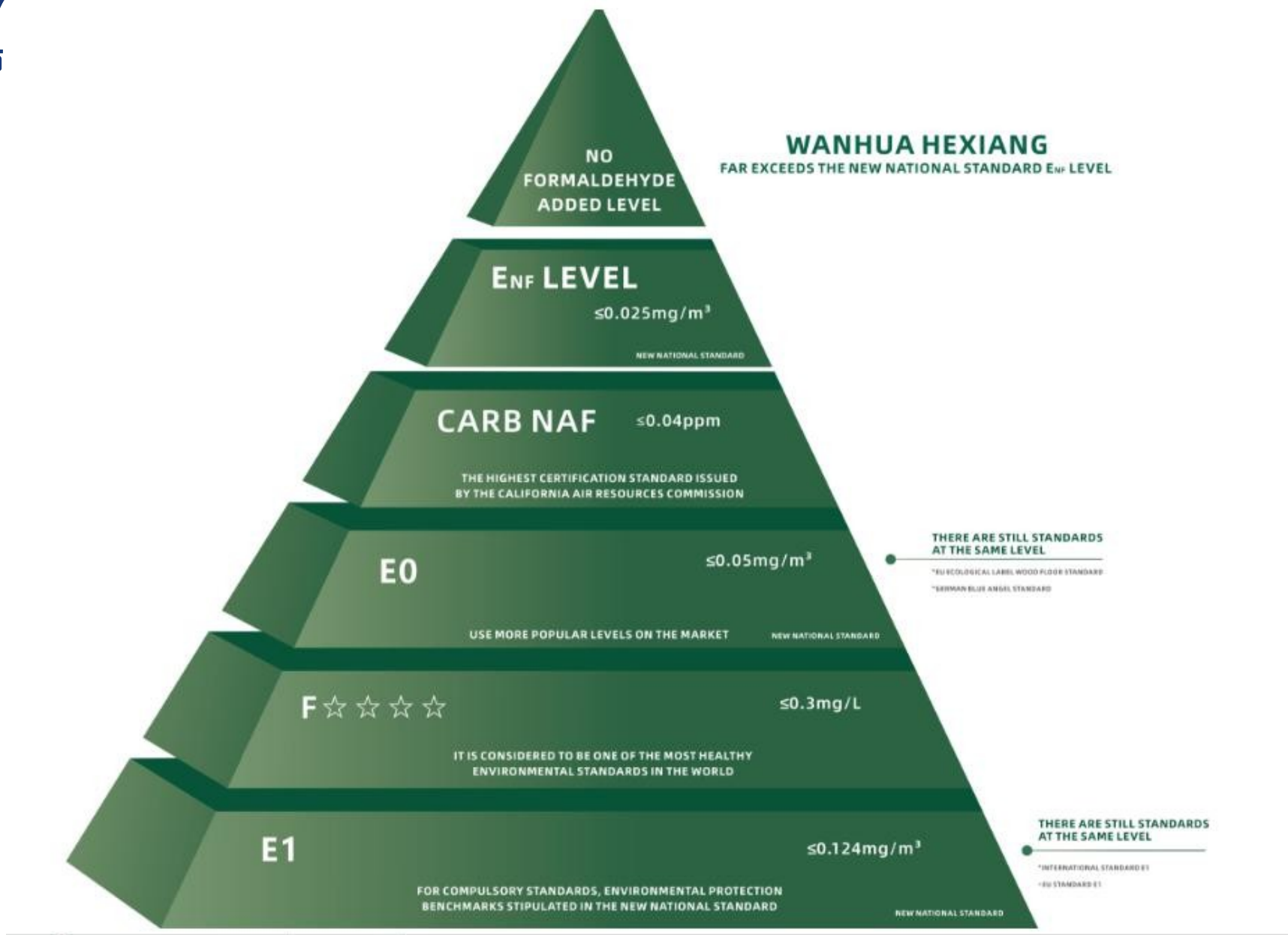


Germany DIEFFENBACHER
Production line

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A complete range of
formaldehyde free artificial boards



Catalogue

01. Straw Particleboard

02. FOSB Panel

03. MDF

04. Plywood board

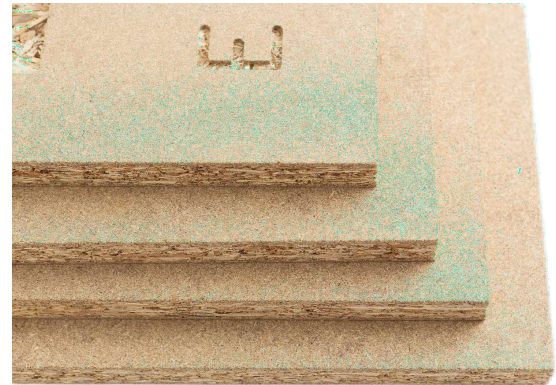
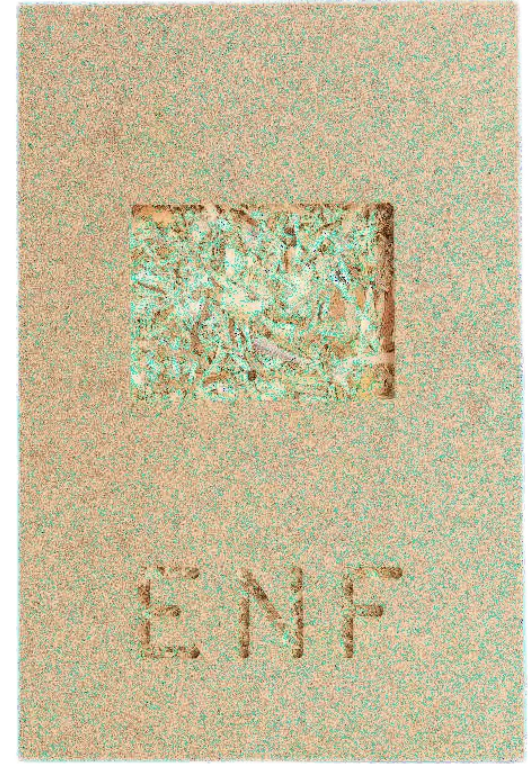
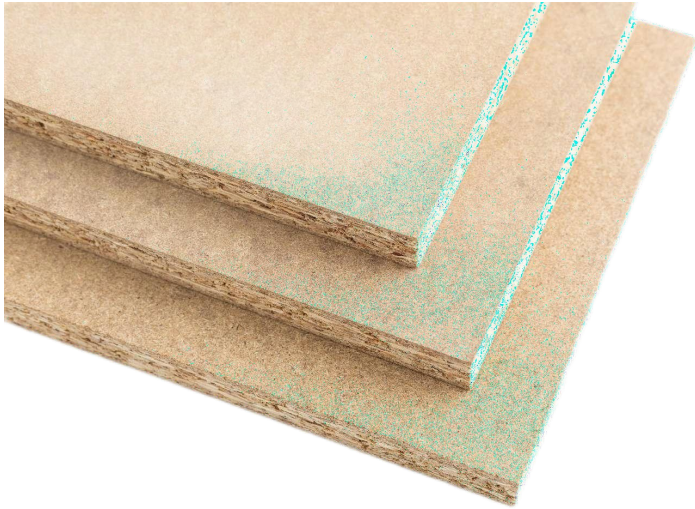
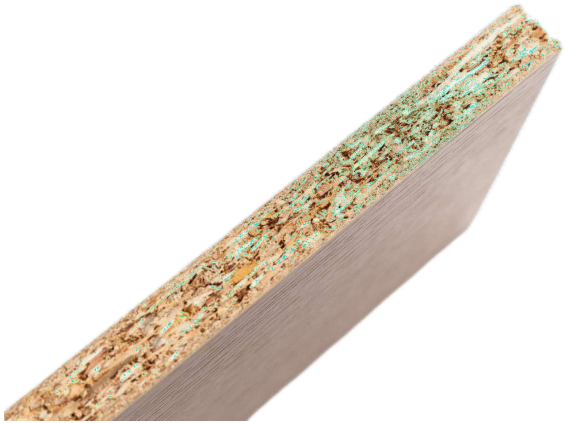
05. Bamboo board

06. High-strength FOSB-3
board

07. Straw Particleboard
High Moisture Proof P6/P12 board

08. Melamine boards

01 Straw reed particleboard



01 Particle Ecoboard Technical Data

WANHUA HEXIANG GROUP CO.,LTD			
SIZE	1220mmX2440x18mm	PRODUCT	Particle board
Test Items	Unit	Reference standard: GB/T 4897-2015 straw particleboard	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.60
Density deviation	%	±10	±8
Moisture content	%	3-13	4-7
Modulus of rupture	Mpa	≥11	11.5
Modulus of elasticity	Mpa	≥1600	1700
Internal bond strength	Mpa	≥0.35	0.40
Surface bond strength	Mpa	≥0.8	0.9
2h thickness swelling	%	≤8	≤4
24h thickness swelling	%	-	-
Screw holding capability	N	vertical≥900, parallel≥600	vertical: 1000, parallel: 700
Formaldehyde emission	mg/m ³	≤0.025	0.012

02 FOSB Board(fine surface oriented strand board)



FOSB-1



FOSB-3

02 FOSB-1 Board Technical Data

WANHUA HEXIANG GROUP CO.,LTD			
SIZE	1220mmX2440x18mm	PRODUCT	FOSB-1
Test Items	Unit	Reference standard: GB/T41715-2022 FOSB BOARD	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.62
Density deviation	%	±10	±9
Moisture content	%	2-12	3-5
Static bending strength - principal direction	Mpa	≥13	14
Static bending strength - secondary direction	Mpa	≥10	11
Elastic modulus - principal direction	Mpa	≥2200	2300
Elastic modulus - secondary direction	Mpa	≥1200	1600
Internal bond strength	Mpa	≥0.3	0.35
Surface bond strength	Mpa	≥0.8	0.9
2h thickness swelling	%	-	-
24h thickness swelling	%	≤20	19
Screw holding capability	N	vertical≥900, parallel≥600	vertical: 1000, parallel: 700
Formaldehyde emission	mg/m ³	≤0.025	0.010

FOSB-3 Board Technical Data

SIZE	1220mmX2440x18mm	PRODUCT	FOSB-3
Test Items	Unit	Reference standard: GB/T41715-2022 FOSB BOARD	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.64
Density deviation	%	±10	±8
Moisture content	%	2-12	4-6
Static bending strength - principal direction	Mpa	≥16	17
Static bending strength - secondary direction	Mpa	≥11	13
Elastic modulus - principal direction	Mpa	≥2300	2800
Elastic modulus - secondary direction	Mpa	≥1500	2400
Internal bond strength	Mpa	≥0.35	0.50
Surface bond strength	Mpa	≥0.8	1.2
2h thickness swelling	%	-	-
24h thickness swelling	%	≤13	12
Screw holding capability	N	vertical≥900, parallel≥600	vertical: 1000, parallel: 700
Formaldehyde emission	mg/m ³	≤0.025	0.010

03 MDF Board



03 MDF Board Technical Data

SIZE	1220mmX2440x18mm	PRODUCT	MDF (FN-REG)
Test Items	Unit	Reference standard: GB/T11718-2021 MDF BOARD	Test values achievable by Wanhua
Density	g/cm ³	0.65-0.80	0.76
Density deviation	%	±10	±5
Moisture content	%	3-13	3.5-5.0
Modulus of rupture	Mpa	≥24	26
Modulus of elasticity	Mpa	≥2300	2400
Internal bond strength	Mpa	≥0.45	1.00
Surface bond strength	Mpa	≥0.90	1.40
2h thickness swelling	%	-	-
24h thickness swelling	%	≤12	9
Screw holding capability	N	vertical≥900, parallel≥600	-
Formaldehyde emission	mg/m ³	≤0.025	0.008

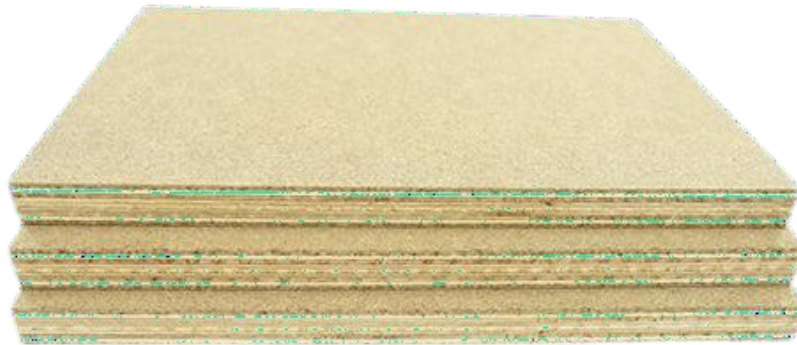
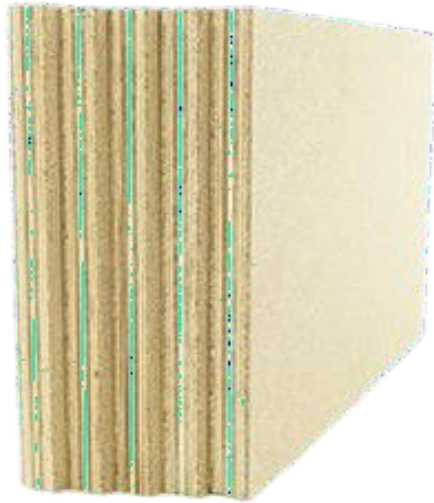
HDF Technical Data

SIZE	10.8mm*1268mm* 2470mm	PRODUCT	HDF
Test Items	Unit	Industry standard (reference standard: LY/T 1611-2011 Fiberboard for Flooring Substrate)	Test values achievable by Wanhua
Density	g/cm ³	≥0.82	0.84
Density deviation	%	±4.0	±3.0
Moisture content	%	4-8	4.3
Modulus of rupture	Mpa	≥35	40
Modulus of elasticity	Mpa	-	-
Internal bond strength	Mpa	≥1.2	1.5
Surface bond strength	Mpa	≥1.2	1.5
2h thickness swelling	%	-	-
24h thickness swelling	%	≤10	8.0
Screw holding capability	N	-	-
Formaldehyde emission	mg/m ³	≤0.025	0.010

Door Skin Board Technical Data

Size	1220mmX2440x4.5mm	PRODUCT	Door skin board (FN-REG)
Test Items	Unit	Reference standard: GB/T11718-2021 MDF BOARD	Test values achievable by Wanhua
Density	g/cm ³	0.65-0.80	0.77
Density deviation	%	±10	±7
Moisture content	%	3-13	3.5-5.0
Modulus of rupture	Mpa	≥28	31
Modulus of elasticity	Mpa	≥2600	2800
Internal bond strength	Mpa	≥0.60	0.80
Surface bond strength	Mpa	≥0.60	0.80
2h thickness swelling	%	-	-
24h thickness swelling	%	≤35	20
Screw holding capability	N	-	-
Formaldehyde emission	mg/m ³	≤0.025	0.015

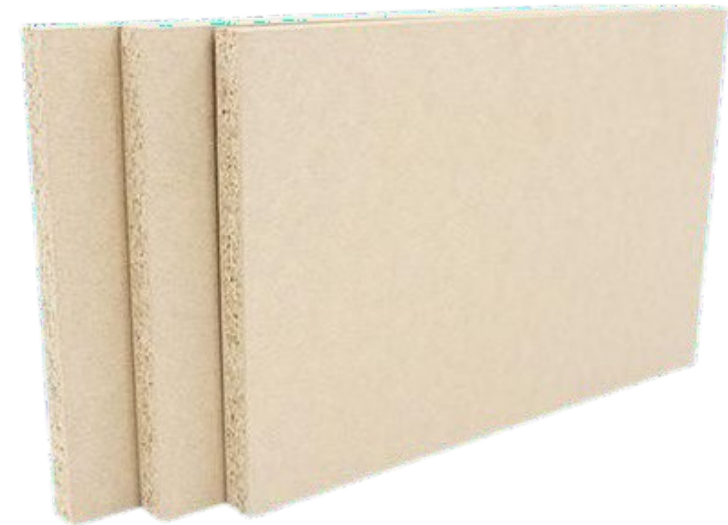
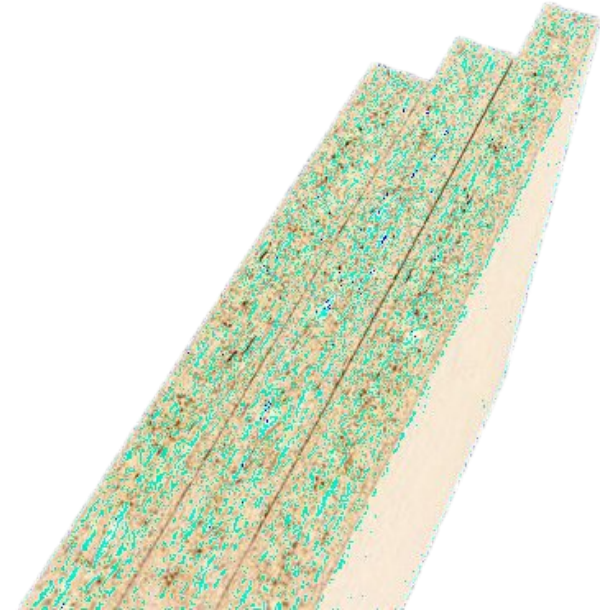
04 Plywood Board



Plywood Board Technical Data

SIZE	1220mmX2440x18mm	PRODUCT	Plywood board
Test Items	Unit	Reference Standards: GB/T 17657-2022 T/CNFPIA 3031-2023	Test values achievable by Wanhua
Density	g/cm ³	-	-
Moisture content	%	4-16	4.37
Modulus of rupture	(Lengthwise Direction)Mpa	≥20	36
	(Widthwise Direction)Mpa	≥18	27
Modulus of elasticity	(Lengthwise Direction)Mpa	≥4000	5013
	(Widthwise Direction)Mpa	≥3000	3125
Surface bond strength	Mpa	≥0.80	1.09
Internal bond strength	Mpa	≥0.70	1.00
24h thickness swelling	%	≤8.0	5.21
Formaldehyde emission	mg/m ³	≤0.025	0.008

05 Bamboo Board



Bamboo Board Technical Data

SIZE	1220mmX2440x18mm	PRODUCT	Bamboo based particle board
Raw material composition	Bamboo		
Test Items	Unit	Enterprise standards (Q/JS.BZ003-2024)	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.64
Density deviation	%	±8	±7
Moisture content	%	4-13	4-5.5
Modulus of rupture	Mpa	≥14	16
Modulus of elasticity	Mpa	≥1700	2300
Internal bond strength	Mpa	≥0.35	0.40
Surface bond strength	Mpa	≥0.8	0.9
2h thickness swelling	%	≤8	7
24h thickness swelling	%	-	-
Screw holding capability	N	vertical≥900, parallel≥600	vertical≥1100, parallel≥900
Formaldehyde emission	mg/m ³	≤0.025	0.008

07 High Moisture-Proof P6/P12 board

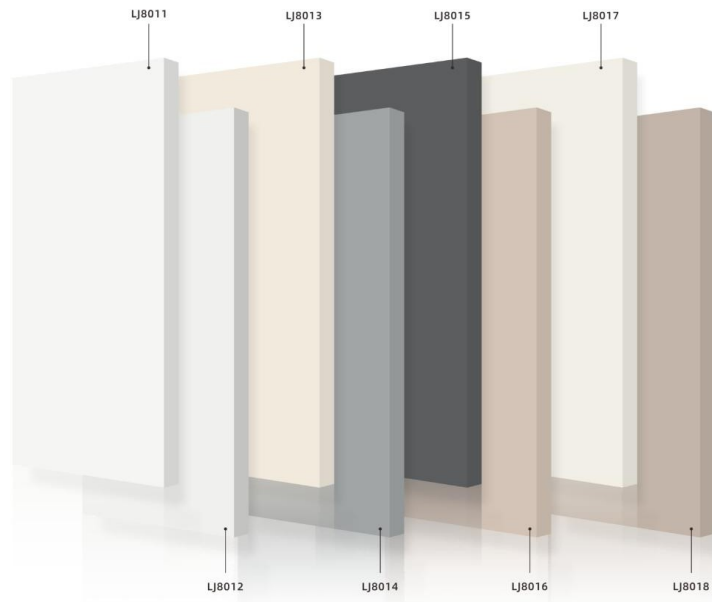


High Moisture-Proof P6/P12 board Technical Data

SIZE	1220mmX2440x18mm	PRODUCT	P6 Moisture resistant particle board
Test Items	Unit	Reference standard: GB/T4897-2015 Particle BOARD	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.65
Density deviation	%	±10	±9
Moisture content	%	3-13	4.5-6
Modulus of rupture	Mpa	≥13	15
Modulus of elasticity	Mpa	≥1900	2300
Internal bond strength	Mpa	≥0.40	0.60
Surface bond strength	Mpa	≥0.8	1.1
2h thickness swelling	%	-	-
24h thickness swelling	%	≤14	13
Screw holding capability	N	vertical≥900, parallel≥600	vertical: 1200, parallel: 1000
Formaldehyde emission	mg/m ³	≤0.025	≤0.010
Moisture resistance test: Method 1: Internal bonding strength after boiling in boiling water	Mpa	≥0.08	0.10
Moisture resistance test: Method 2: Static bending strength after immersion treatment in 70 °C water	Mpa	≥4.5	7.0

SIZE	1220mmX2440x18mm	PRODUCT	P12 Moisture resistant particle board
Test Items	Unit	Reference standard: GB/T4897-2015 Particle BOARD	Test values achievable by Wanhua
Density	g/cm ³	-	≥0.65
Density deviation	%	±10	±9
Moisture content	%	3-13	4.5-6
Modulus of rupture	Mpa	≥20	21
Modulus of elasticity	Mpa	≥3100	3100
Internal bond strength	Mpa	≥0.70	0.80
Surface bond strength	Mpa	-	-
2h thickness swelling	%	-	-
24h thickness swelling	%	≤8.0	6.5
Screw holding capability	N	vertical≥900, parallel≥600	vertical: 1200, parallel: 1000
Formaldehyde emission	mg/m ³	≤0.025	≤0.010
Moisture resistance test: Method 1: Internal bonding strength after boiling in boiling water	Mpa	≥0.35	0.35
Moisture resistance test: Method 2: Static bending strength after immersion treatment in 70 °C water	Mpa	≥12	12

08 Melamine boards



PET panels



Melamine panels



7X9 Melamine boards

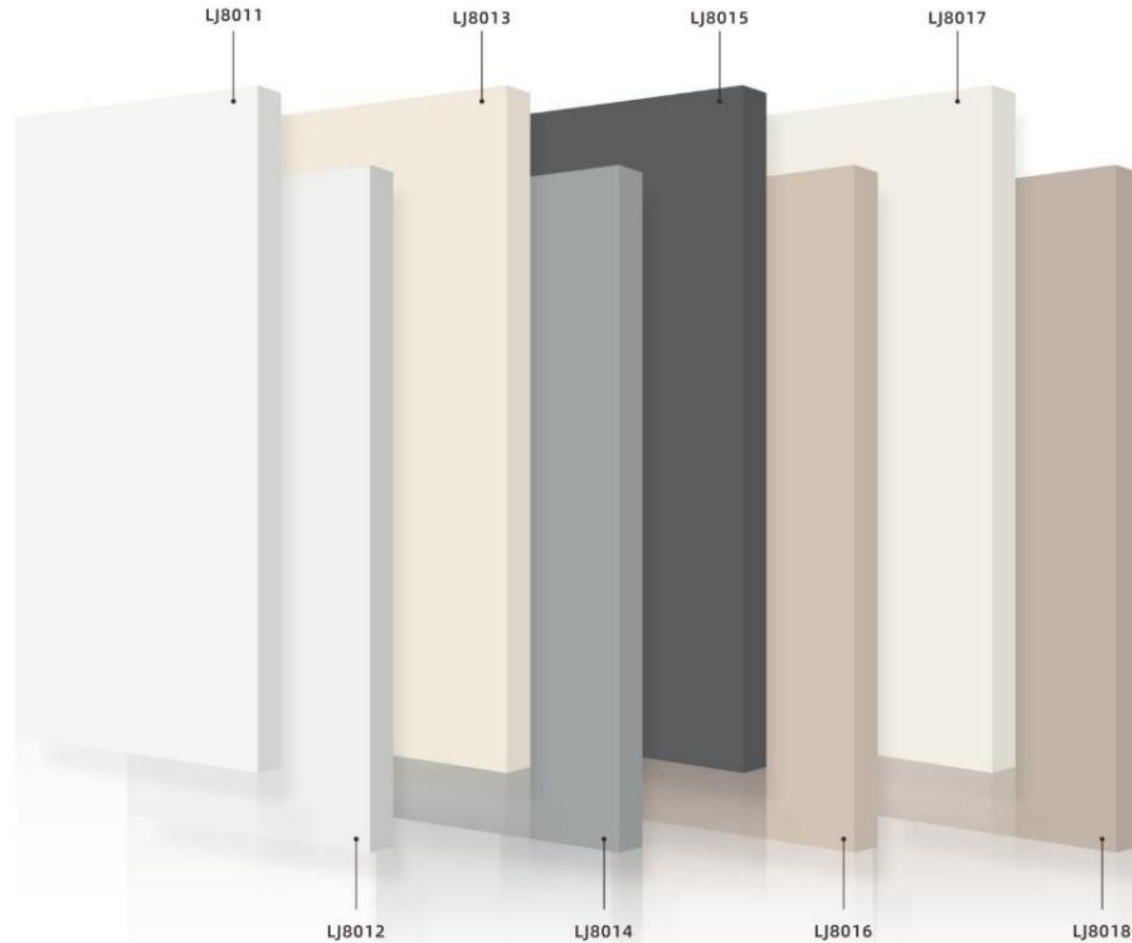
ZEROE SERIES-Melamine boards

Melamine board Colors Display



ZEROE SERIES-PET boards

PET board Colors Display





ECOBORD

Applications

Wardrobe

Cabinet

Floor

Wall panel

Interior Door

more applications ...





A Beautiful Life Starts With WANHUA

• **THANK YOU** •