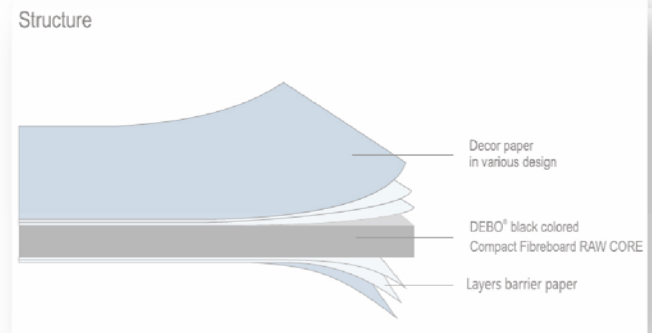


ELEX Compact Fiberboard Maintenance

ELEX Compact Fiberboard is an innovative, robust, and high density ($>1200 \text{ kg/m}^3$) wood based fiberboard.

The **raw core** is black colored and made up of wood fibers impregnated with thermosetting resin. The surface layer(s) on both sides are decor papers, having decorative colors or designs that are impregnated with melamine based resin. These two components are bonded together under high pressure and temperature to obtain an integrated decorative material.



Technical data of ELEX Compact Fiberboard (raw core)

(acc. to EN622-5: Fiberboards-requirements for boards after drying process MDF)

Testing Parameter	Test Result	Unit	Requirement	Standard
Panel thickness	8 / 9 / 10 / 12 / 13	mm	/	EN 324
Thickness tolerance	± 0.2	mm	± 0.2	EN 324
Raw Density	> 1200	kg/m^3	> 800	EN 323
Internal bond strength	> 4.0	N/mm^2	> 0.6	EN 319
Flexural strength	> 70	N/mm^2	> 22	EN 310
Flexural elasticity module	> 6500	N/mm^2	> 2500	EN 310
Surface soundness	> 3.5	N/mm^2	> 1.0	EN 311
Thermal conductivity	0.182	$\text{W/(m}\cdot\text{K)}$	0.14	EN 13986
Moisture content	8	%	4-11	EN 322
Swelling in thickness 24H	< 3.6	%	< 15	EN 317
Formaldehyde Emission	E1		E1	EN 13986
Fire classification	B-s1, d0		B2	EN 13501

Technical data of ELEX Compact Fiberboard (decor panel)

(acc. to EN 14323: Melamine-coated boards for indoor applications)

Testing Parameter	Test Result	Scale	Evaluation	Standard
Surface Abrasion	900	Revolution	High	EN 14323
Resistance to water vapour	5	1-5 (5 is the best)	Very high	EN 14323
Resistance to scratching	No visible marks after scratching with 4N	Visual	High	EN 14323
Resistance to cracking	5	1-5 (5 is the best)	Very high	EN 14323
Resistance to impact by large diameter steel ball	No visible cracking after impact with height of 200cm	Visual	High	EN 14323
Resistance to staining	5	1-5 (5 is the best)	Very high	EN 438-2
Light fastness	4.5	-	High (grey scale)	EN 14323
Formaldehyde emission	E1	-	E1	EN 13986
REACH	< 0.1%	(W/W)	Pass	REACH Regulation (EC) No.1907/2006 173 (SVHC)

Maintenance Guide

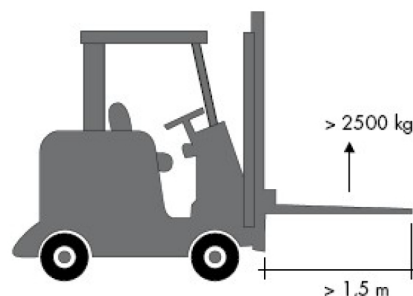
ELEX Compact Fiberboard are designed for beauty and durability structure material. However, it can be damaged by abuse and carelessness. When used as recommended with proper use and care, it will keep its high performance for years.

Transportation of Material

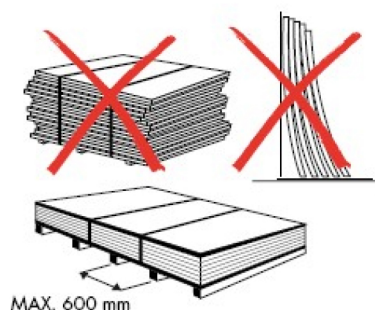
Key Points

- Always keep the panels clean.
- Never drag the panels when moving.
- Use angle bead during transportation.

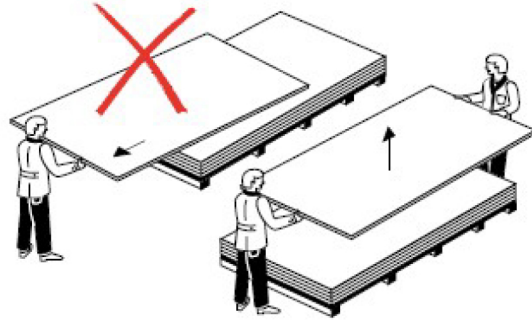
Fork Lift



Loading



Carrying

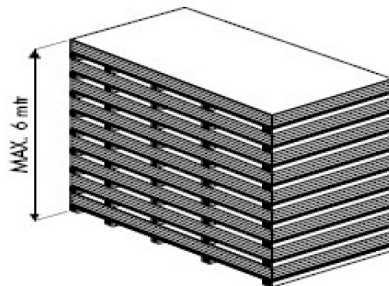


Storage of Material

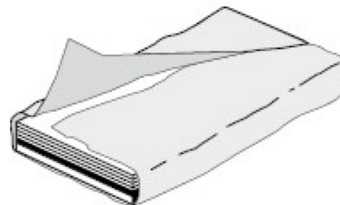
Key points

- Storage place must be clean, ventilation and dry. Wet area is not good to storage the panels.
- Keep temperature between 10°C and 30°C and 40-65% RH.
- Don't overload each pallet (Maximum 2000kgs).
- Make the pallets straight in Longitudinal & Transversal when pile up. (Maximum 6m height)
- Cover the surface of the panel once the package opened. (In order to avoid the humidity)
- Avoid the panel from sunshine.
- Never drag the panels. When carrying, it's easy to cause small scratches.
- Never lean the panels in storage or on site, since it's easy to cause bending.

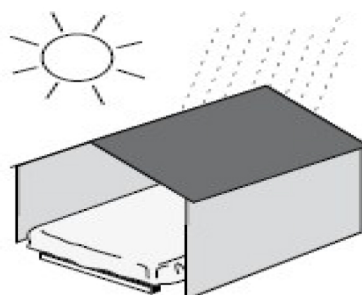
Limit Height



Cover Surface



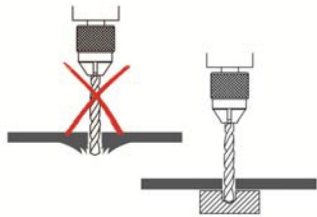
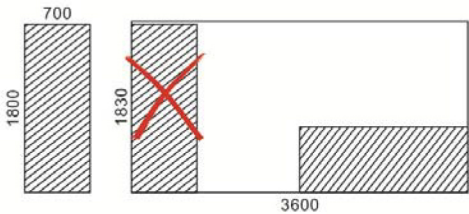
Avoid Sunshine



Processing of Material

·To maintain the smooth holes edges, it's the best to put some soft under-layer (like MDF, Solid wood etc) under the drilling position in order to make sure the driller will not stop by anything after through hole. Otherwise the bottom surface might be damaged by the driller shaking.

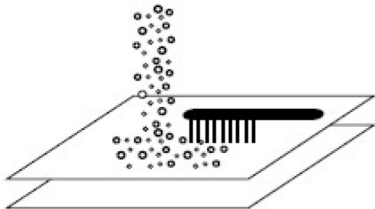
·Never cut the long side from the short side of the panels. The paper's fibers will come along with the long side, the panel may easy to bend if you cut the long side from the panel's short side, it will damage the stress balance of the panel.

<p>Drilling</p>	
<p>Cutting</p>	

Cleaning of Material

Key Points

- To maintain the laminate's lasting beauty, you only need to use a clean, damp, non-abrasive cotton cloth and a liquid detergent or household cleaner in most cases. Light scrubbing with a soft bristled brush may be necessary to remove stains from the depth of structure on some textured surfaces. But too much force may damage the decorative surface.
- Never use cleaners containing acid, alkali, or hypochlorite. These cleaner will mar, etch, corroder and permanently discolor the laminate surface. Also, make sure those bottles, rages and other materials contaminated with these cleaners never contact the laminate surface.

<p>Clean by soft brush</p>	
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Attention

As for the cleaner, many commercially available cleaners contain substances that may damage the laminate surface. Particular care should be used with any products labeled CATION or WARNING. Examples of these are as follows:

- ◆ ·Do not use following cleaners:
- ◆ ·Toilet bowl cleaners
- ◆ ·Hydrogen Peroxide
- ◆ ·Oven cleaners
- ◆ ·Drain cleaners
- ◆ ·Metal cleaners and polish
- ◆ ·Chlorine Bleach
- ◆ ·Tub and tile cleaners

Scratch and Impact Protection

All **ELEX** Compact Fiberboard are resistant to scratches and impacts under normal use conditions as below:

- Do not chop, slice, pound, or hammer on any surface.
- Knives other sharp utensils may slice or scratch the surface.
- Heavy blows from a hammer or meat tenderizer may crack or gouge the surface.
- Ceramics and abrasive objects can cause scratching and premature wear – do not slide these items across surface.

Heat Objects

Sustained release to temperatures of 60°C (140°F) or higher may cause the laminate to separate from the core material. Never expose to heat exceeding 60°C (140°F) on the **ELEX** Compact Fiberboard. Never ironing or placing a hot iron or lighted cigarettes directly on laminate surface.

Chemical Damage

Never use cleaners containing acid, alkali, or sodium hypochlorite. These cleaners will mar, etch, corrode, and permanently discolor the laminate surface. Also, make sure that bottles, rags, and other materials contaminated with these cleaners never contact with the laminate surface.

Health and Safety

- Inhalation of dust generated from processing **ELEX** decorative compact fiberboard may cause irritation and sensitization by inhalation (asthma) and by skin contact (dermatitis).
- Repeated inhalation of dust may cause irreversible health effects including asthma, chronic nose or throat irritation or lung scarring. Do not breathe the dust. Wear a respirator when using power tools.