

Consequences of fire and explosions

A fire or explosion can have serious consequences for your company:

- Injury and loss of human life
- Damage to machines, transport facilities and storage space
- Production interruptions
- Loss of income
- Repair costs owing to damaged machines
- Replacement costs owing to destroyed machines
- Increase in insurance premiums

The right solution for your plywood production



To protect your production, your staff and your machines against fire and explosions, GreCon offers you...

- a fast, reliable spark extinguishing system which is especially adapted to your production
- the detection of sparks and glowing particles in the areas at risk
- the immediate extinguishment of sparks and glowing particles – in 99 percent of cases without production interruption
- a record exactly to the millisecond so as to identify the causes of problems

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GreCon

Fire and Explosion
Protection of
Plywood Productions

GreCon

Fire
Protection

GreCon

Measuring
Technology



EN | R.01 | 2013.04
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Plywood

Fire and explosion protection of plywood productions

Plywood consists of several thin layers of wood which are glued with each other crosswise. Depending on the application, materials like veneer or solid timber are used. Especially where thin cross sections are required although loads are high, plywood has a clear advantage over other wood based panels. However, the production processes, such as the drying of the rotary-cut veneer, the production of solid wood core layers and the pressing of the combustible materials to plywood panels, hold various risks of fire. Sparks, glowing embers or particles, generated in different plant areas, can easily cause serious fire and explosions.

A GreCon spark detection and extinguishment system significantly increases the safety and protection of the production facilities. It detects sparks in time and automatically extinguishes them – and has done so successfully for more than 35 years.

Risks of plywood productions

The main dangerous spots are in the area of dryers and machine tools, such as saws and sanders. Defective machine parts and overheating of the material can generate ignition sources. Sparks or glowing particles can be created and reach, via extraction and conveying facilities, filters, silos or bins where they can cause fire and dust explosions.

Danger zones of plywood productions

Fire or explosions in plywood productions can damage or even destroy the facilities. A GreCon spark detection and extinguishment system monitors and protects the following areas at risk:

- | | |
|------------------------|---------------------|
| ■ Dryer | ■ Extraction system |
| ■ Conveying facilities | ■ Cyclone |
| ■ Press | ■ Filter |
| ■ Cut-off saw | ■ Silo |

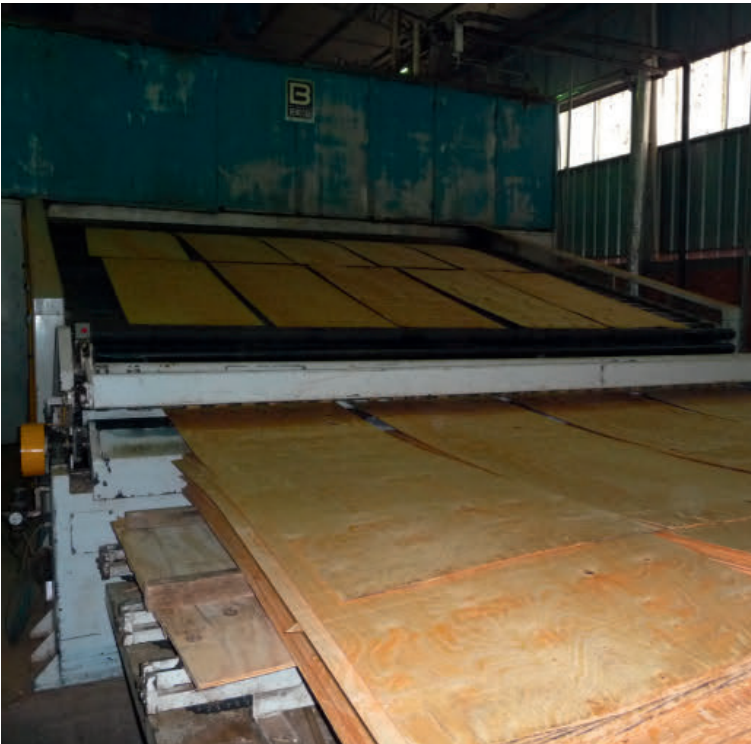


Diagram of a plywood production process showing possible protection areas

