



Fire and Explosion Protection of OSB Productions

Thanks to their three-layer construction out of oriented long chips, OSB panels (oriented strand board) stand out due to their good mechanical properties. In wooden constructions, OSB panels are nowadays essential as structural elements. However, the production processes, such as the production of the strands as well as the drying and pressing of the combustible materials to OSB 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 dangerous ignition sources in time and automatically extinguishes them without interrupting production – and has done so successfully for more than 35 years.

THE RIGHT SOLUTION

- ✓ 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
- ✓ protection without interrupting production

RISKS

The main dangerous spots are in the area of chippers, dryers, saws and sanders where the material is processed. Defective machine parts and overheating caused by material densifications can generate ignition sources. Sparks or glowing particles can be created and reach, via extraction and conveying facilities, filters, silos, bins or sanders where they can meet explosive wood dust concentrations, which can quickly lead to dust explosions and consequential fire.

DANGER ZONES

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

- ✓ Chipper
- ✓ Dosing bin
- ✓ Sander
- ✓ Dryer
- ✓ Forming station
- ✓ Extraction system
- ✓ Dryer cyclone
- ✓ Press
- ✓ Filter
- ✓ Sieve
- ✓ Cut-off saw
- ✓ Silo

DIAGRAM OF PROTECTION CONCEPT

