

## VFL Fire Resistant Intumescent Foil

- The VFL fireproof layer is a testament to advanced technology, boasting remarkable durability and exceptional resistance to fire. Also known as intumescent fireproofing material, VFL plays a crucial role in ensuring safety within buildings and homes by effectively impeding the spread of fire and smoke.
- When faced with high temperatures, this remarkable material undergoes a transformative process, expanding and forming a dense insulating layer. This layer acts as a formidable barrier against fire and smoke, significantly slowing down the progression of flames and smoke. Consequently, occupants are granted valuable additional time to evacuate, while firefighters can approach the affected area more safely.
- By integrating the VFL layer into the internal structure of doors and panels through lamination, a robust defense against flames, heat, and smoke is established. The intelligent design of the VFL's intumescent expansion showcases an exceptional level of fire resistance. Even when subjected to prolonged exposure to extreme temperatures, this innovative solution effectively thwarts the passage of fire, safeguarding lives and property.



VFL as fire resistant intumescent barrier foil for doors

### VFL roll dimension :

Width	1000 mm	1250 mm	1500 mm
Length	300 metres	300 metres	300 metres
Thickness	0.40 mm	0.40 mm	0.40 mm

### VFL Fire test Certification :

Fireproof Test: The product demonstrates exceptional resilience by withstanding extreme temperatures of up to 1300 degrees Celsius for a duration of 20 minutes per layer, even when exposed to the intense heat of a butane torch flame. It successfully fulfills the rigorous standards outlined in the Class 1 category, which represents the highest fire rating, as specified in the renowned fire test CNS 14705-1 Cone Calorimeter.

Fire Test Certification	: CNS 14705-1
Method	: Cone calorimeter
Temperature	: 831 +/- 10 Deg C
Heating time	: 20 minutes
Overall Test Result	: Meet Requirement of Class 1 for CNS 14705-1

## Application and Installation:

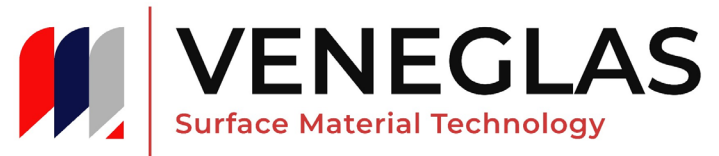
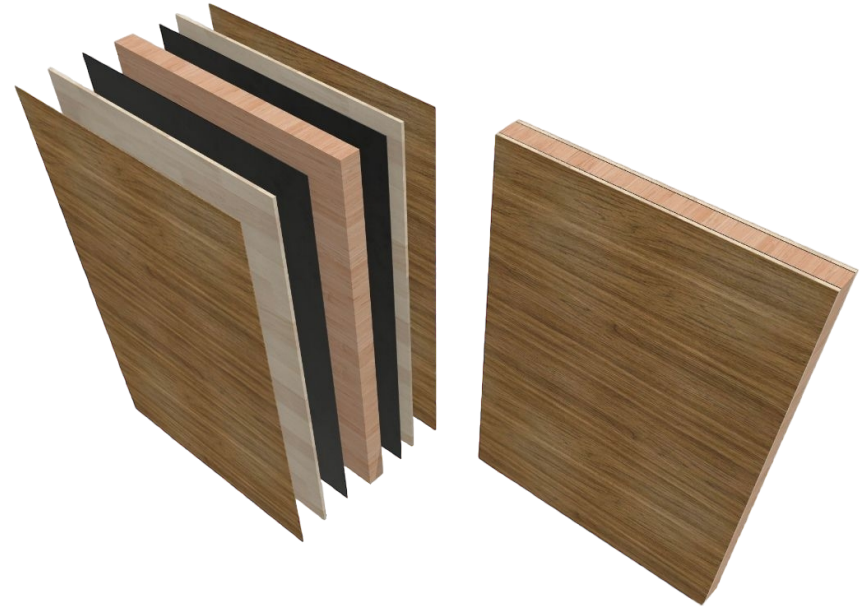
The versatility of VFL is one of its key advantages, making it an ideal choice for fire-rated walls and doors. VFL can be effectively used in various building types, including residential homes, commercial buildings, and industrial facilities. Furthermore, it is suitable for both new construction projects and retrofitting existing structures.

### Here are the different application areas for VFL:

- ✓ Wood Panels (MDF, Particle Board, Plywood, OSB , Blockboard, and PVC Rigid Board)
- ✓ Interior door and exterior door
- ✓ Roof panels
- ✓ Yacht interior
- ✓ External facade

### Adhesive :

- ✓ PUR or high temperature resistant adhesive



**VFL Fire Resistant Intumescent Foil**



Door



Wall and Roof Panels



Yacht

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