

## **FIRE RESISTANCE**

- Aluminium metal is “non-combustible” :
  - It does not burn when exposed to fire
  - Combustible material = material capable of burning
  - Flammability is the ease with which a combustible material ignites
  - Aluminium = non-combustible => non-flammable (cannot catch fire)
  - Euro-Class A1 construction material according to DIN 4102-4
  - Euro-Class A1 construction material according to European Commission decision 96/603/EC without the need for testing)
  - The anodic layer is AluminiumOxide and non-toxic
  - No smoke gas development + no drip-off in case of fire
  - Material sold by COIL is therefore “non-combustible” and “non-flammable”
  
- Aluminium Composite Panels :
  - A sandwich of 2 aluminium sheets with a polymer, mineral or mixed core
  - In case of C-Bond; COIL only supplies the outer skin material
  - The core is having impact on reaction to fire, ranging from combustible (class F) to non-combustible (class A2)
  - Outer cladding material, wall insulation material and fire barriers all have an influence on flammability of a facade