



# Hebel PowerShield

## Complete Fire + Acoustics Solution

Hebel PowerShield has been specifically engineered to provide a complete fire and acoustics solution for the Power, Utilities and Infrastructure industries.

PowerShield is ideal for applications including the protection of structures from petrochemical fire, inclusive of firewalls for tunnels, power stations and substations. The Hebel PowerShield panels range from 150mm - 300mm thick up-to 6m in length, complete with a tongue and groove fitting which contributes to the fire and acoustic performance. Hebel can also provide non-inductive panels, which is a key requirement of walls in electromagnetic fields.

Designed to withstand heat up to 1300°C, Hebel PowerShield has a fire resistance performance when exposed to the Hydrocarbon Modified (HCM) fire curve as defined in French Ministry circular no. 2000-63 of August 2000 (limited to a selection of materials world-wide), and has been tested and certified for Thermal, Acoustic Performance.



## Acoustic Design & Density

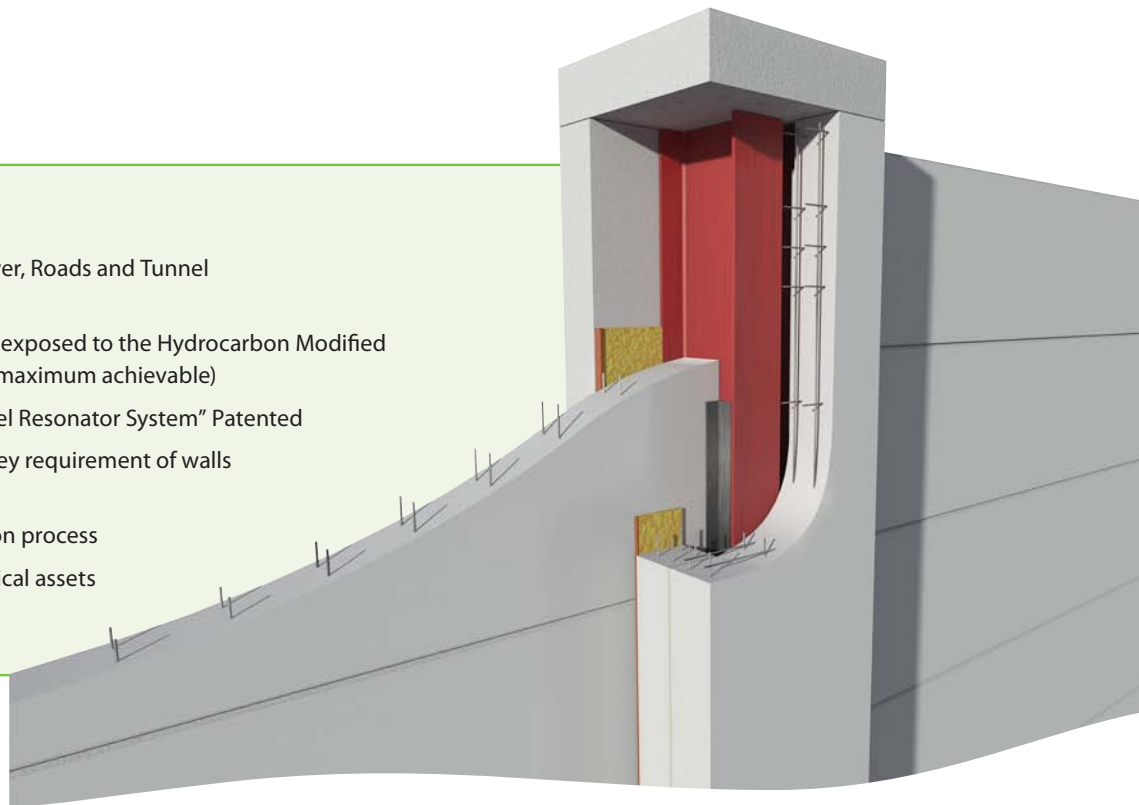
Hebel PowerShield high acoustic performance panels may incorporate the Slated Resonator Wall system by adding a separated layer of Hebel panels as a slatted absorber using steel top hats with a calculated air gap. The system uses Helmholtz resonance principals to achieve acoustic absorption at the specific resonant frequency of the project.

PowerShield panels are easily cut to accommodate service penetrations after a wall installation because they have a dry density of 550kg/m<sup>3</sup> this is less than one quarter of the density of precast concrete panels.



### Benefits

- Developed specifically for the Power, Roads and Tunnel infrastructure industries
- Fire resistance performance when exposed to the Hydrocarbon Modified (HCM) fire curve for 120 minutes (maximum achievable)
- Noise cancelling technology “Hebel Resonator System” Patented
- Non inductive panel capability – key requirement of walls in electromagnetic fields
- Lighter, faster modular construction process
- Help reduce risk by protecting critical assets



## How to Order PowerShield:

Complete the Hebel Custom order form and email to [allhebelorders@csr.com.au](mailto:allhebelorders@csr.com.au)

## Technical Information

### Hydrocarbon Fire Exposure

The Hebel PowerShield system has an established fire resistance performance of 120 minutes when exposed to the Hydrocarbon Modified (HCM) fire curve (Exova Warringtonfire reports: 28255-00 & 27043800).

### Cellulosic Fire Exposure

The Hebel PowerShield system has an established fire resistance performance when subject to cellulosic fire exposure as follows: AS 1503.4-2005 FRL = -/240/240 (Exova Warringtonfire Report ref: 24648-02)