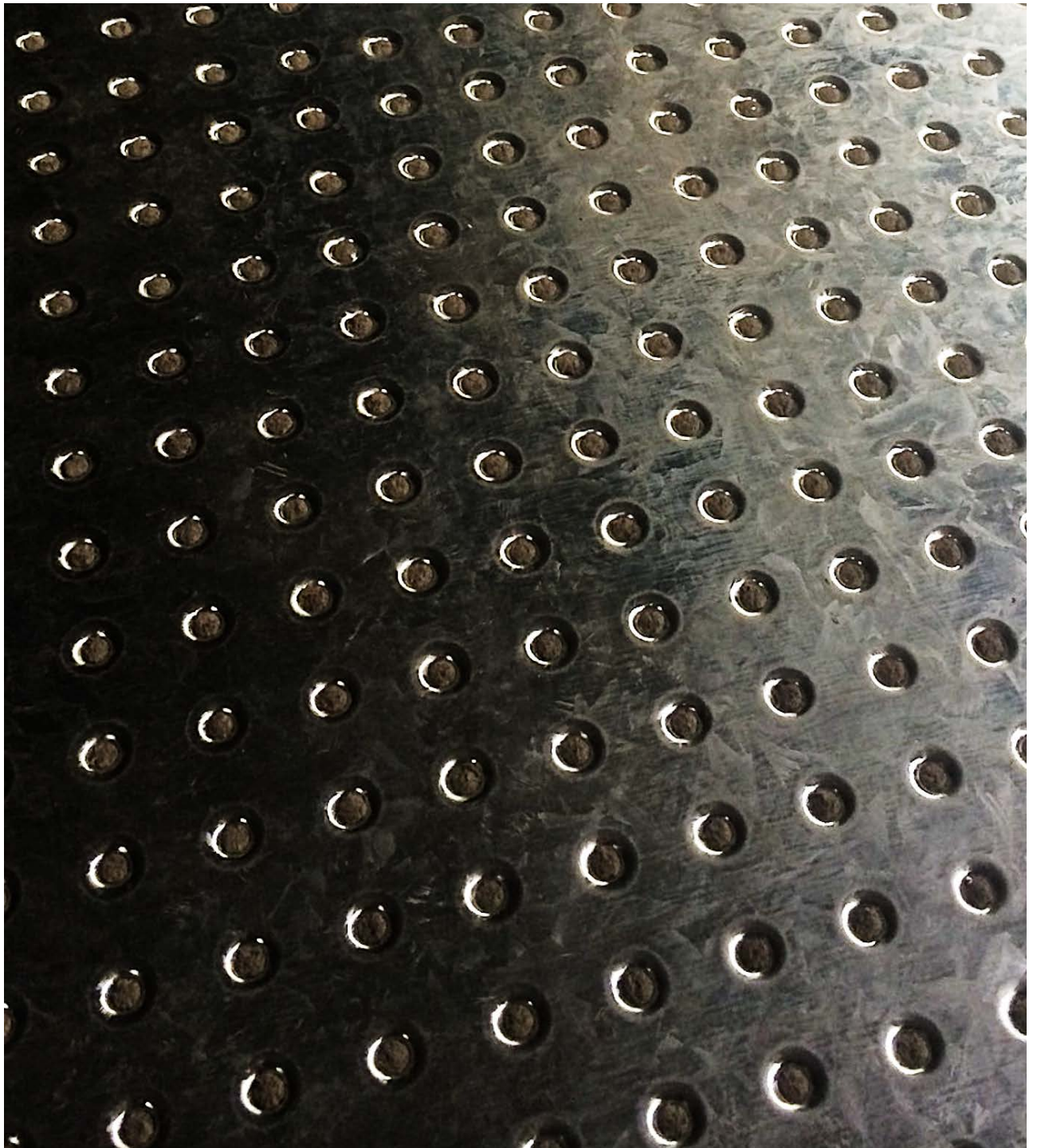


# High Impact Steel Boards

Blast Proof | Fire Resistant | Low Cost | Long Lasting



## Doorsteel | High Impact Steel Board

Doorsteel is a high impact heavy duty steel composite board manufactured with a fibre reinforced environmentally friendly high density calcium silicate & cement core, with outer facings of perforated galvanised steel, mechanically bonded to both outer surfaces. These boards are fire resistant up to 240 minutes and classed as non-combustible to BS 476: Part 4: 1970, BS EN 1716: 2010, BS EN 1182: 2010 and A1 to Clause 10 of BS EN 13501- 1:2002. Euro Class A1 and A1FL. Building Regulations stipulate minimum periods of fire protection required to the elements of a building's structure. In the severest of situations, when protection is needed for up to 4 hours integrity and insulation.

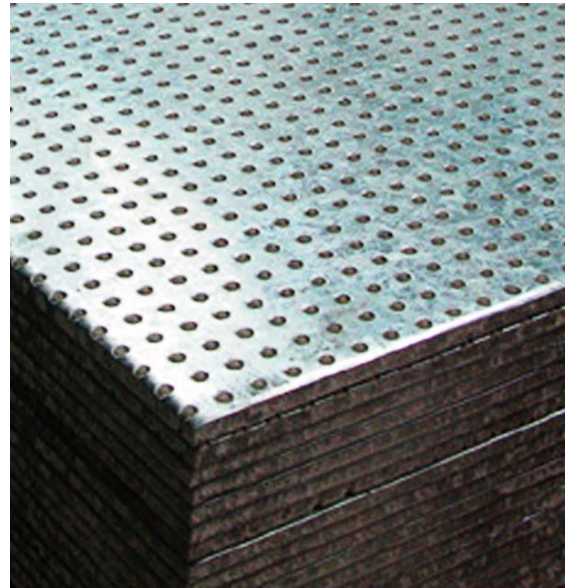
Doorsteel High Impact Boards has been tested to meet this criteria in accordance with the requirements of BS476: Part 22:1987 and BS 476: Part 20-24 BS EN 1364-1 & 2. It also provides up to 3 hours for hydrocarbon fire barriers. The construction means the boards are exceptionally robust for harsh industrial and public environments.

### Main Features & Benefits

- High fire resistance up to 240 minutes
- Excellent heat shield & thermal protection
- Very high mechanical strength
- Waterproof, shockproof, tasteless, non-toxic
- Does not rot, does not crack, deformable
- Non-combustible, high strength, heavy weight
- Convenient construction, long service life

### Applications

- Blast resistant transformer barriers
- Ceilings and plenum ceilings
- Thermal Insulation & Heat Shield Barrier
- Electrical and mechanical services enclosures
- Fire and blast resistant walls and hoardings
- Fire rated impact resistant doors
- Hydrocarbon fire resistant barriers
- Hazardous materials vaults
- Impact resistant barriers and spandrels
- Loadbearing floors, roofs and access panels
- Ventilation, smoke outlet and kitchen extract ductwork
- Vertical shaft systems



### Technical Properties:

Thickness	mm	6	9.5
Continuous Service Temperature	°C	400	400
Short-term Service Temperature up to	°C	1000	1000
Bulk density $\rho$	kg / m <sup>3</sup>	2800	2210
Compressive strength	N/mm <sup>2</sup>	60	60
Bending strength $\sigma$	N/mm <sup>2</sup>	109	84
Tensile strength	N/mm <sup>2</sup>	32	30
Elasticity module E	N/mm <sup>2</sup>	55000	40000
Thermal conductivity $\lambda$	W/m K	0.55	0.55
Sound insulation	dB	28	30
Board weight	kg / m <sup>2</sup>	16.8	21
Humidity content	%	6	6
Water absorbency	%	14	14