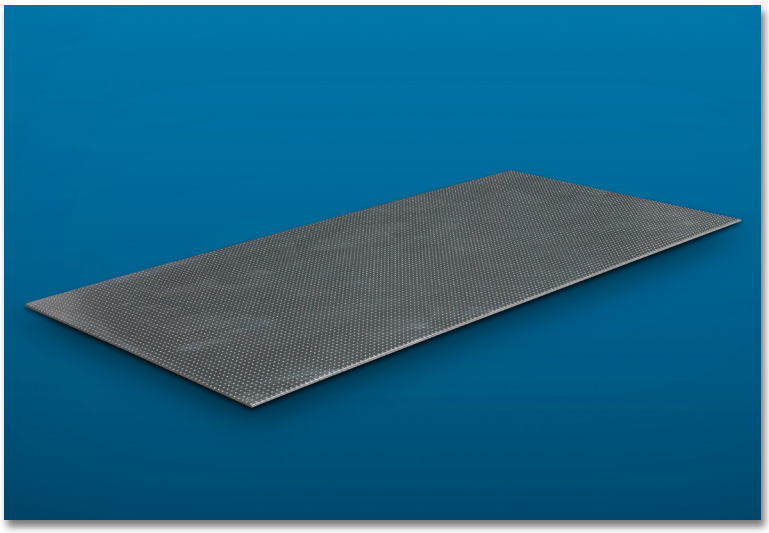
DURASTEEL®



Composite insulation board

DURASTEEL® consists of a calcium silicate core reinforced on both sides with perforated galvanised steel covering sheets.

The punched lugs in the steel sheets are pressed into the core board giving the DURASTEEL® composite board a very high mechanical strength once the drying process is finished.

DURASTEEL® comes in two thicknesses and the material is classified as class A1, non-combustible.

Technical data			
Thickness	mm	6	9.5
Building material class	DIN 4102	A1, non-combustible	A1, non-combustible
Classification temperature			
Permanent stress	°C	400	400
Short term up to	°C	1000	1000
Bulk density	kg/m³	2800	2210
Cold compressive strength	N/mm²	60	60
Bending strength	N/mm²	109	84
Tensile strength	N/mm²	32	30
Modulus of elasticity E	N/mm²	55000	40000
Thermal conductivity			
20 °C	W/m K	0.55	0.55
Sound insulation	dB	28	30
Board weight	kg/m²	16.8	21
Moisture content (air-dry)	%	6	6
Water absorption	%	14	14

Delivery sizes			
Thickness	mm	6	9.5
Length	mm	2500	2500
Width	mm	1200	1200

Other sizes are available on request.

Production tolerances			
Thickness	mm	+ 1.5 / – 0	± 1.0
Length and width	mm	± 2.0	± 2.0

DURASTEEL®

Properties & advantages

- High mechanical strength
- Impact and shock proof
- Resistant to water and frost, suited for outdoor use
- Good chemical resistance
- Large-size and thin boards
- Load-bearing
- Non-combustible
- Non-scratch surface

Application areas

HEAVY INDUSTRY

- DURASTEEL® boards are mainly used in the steel and non-ferrous industry as:
  - Heat shield against cyclic or permanent heat radiation
  - Heat shield against metal splashes or sparks
  - Mobile heat shields
  - Office walls close to heat sources
- Flue gas ducts
- Inner wall lining of fire stations

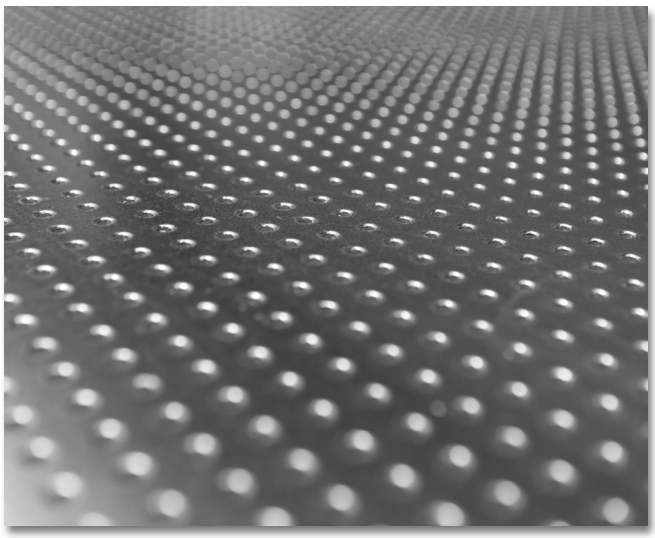
OIL AND GAS

- Heat shields
- Blast and fire walls
- Heavy duty enclosures

Working & processing

To cut and shape DURASTEEL® we recommend the use of a guillotine shear or a water jet. On site it is best to use a compass saw with a fine-toothed blade. Attachment holes should be made using a metal drill on a milling head.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.



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