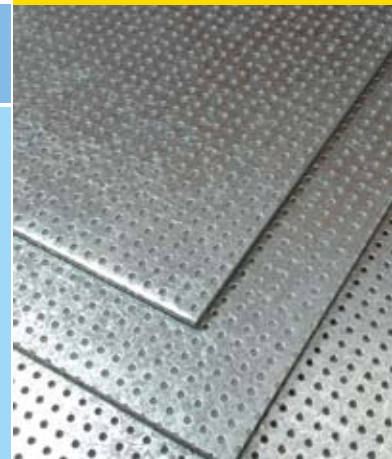


## DURASTEEL®

**DURASTEEL® is a composite insulating board made of a calcium silicate core reinforced on both sides by galvanised or stainless steel covering shells (perforated). The punched lugs produced by the special punching processes are pressed under pressure into the core board, creating the high mechanical strength of DURASTEEL® after the drying process has finished.**



### ADVANTAGES AND PROPERTIES

- High mechanical resilience, impact-proof, shockproof, unbreakable
- Large size, load-bearing
- Can be used for structural purposes
- Non-combustible
- Non-scratch surface
- Resistant to water and frost, can be used outdoors
- Sound protection

On request these composite insulating boards can be delivered with stainless steel surfaces.

### WORKING AND PROCESSING

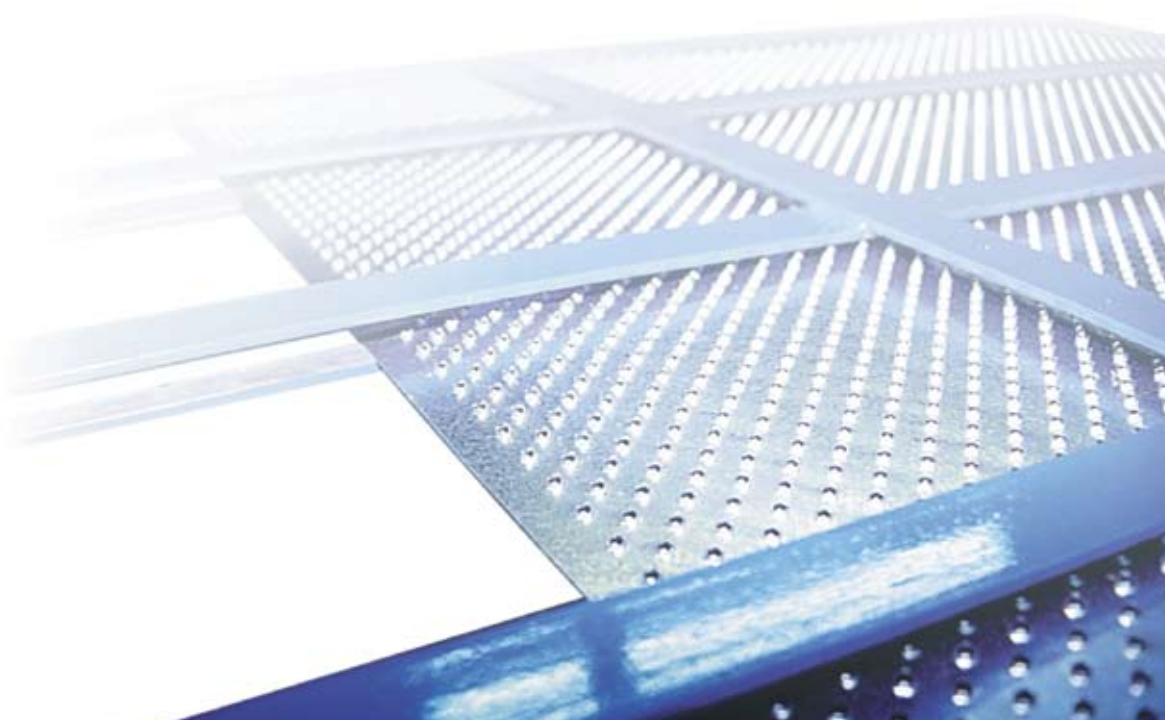
- DURASTEEL® can be cut into large shapes with guillotine shears or with a water jet. On the building site pieces can be cut out or cut to size using a compass saw with fine-toothed blade. Attachment holes should be made using a metal drill with milling head.
- Cutting to Size  
When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.

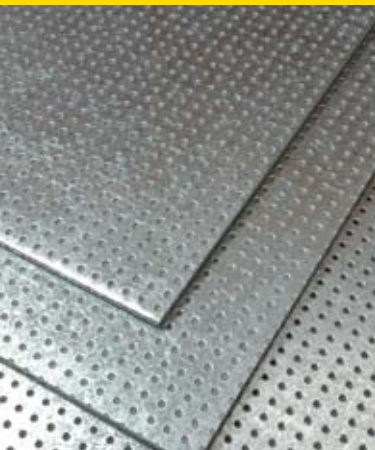
### SELECTION CRITERIA

- Protection against heat radiation, metal splashes and flying sparks
- High mechanical stability and good heat insulation
- Thin boards, large-sized
- Constructively load-bearing applicable

### AREAS OF APPLICATION

- Heat shield against cyclic and permanent heat radiation
- Heat shield against metal splashes and flying sparks
- Flue gas ducts
- Fire house linings





## TECHNICAL DATA

	<b>DURASTEEL®</b>	<b>DURASTEEL®</b>	
Product name	6	9,5	mm
Board thickness	A1, non-combustible	A1, non-combustible	
Building material class according to DIN 4102	400	400	°C
Classification temperature short-term up to	1000	1000	°C
Bulk density $\rho$	2800	2210	kg/m <sup>3</sup>
Cold Compressive strength	60	60	N/mm <sup>2</sup>
Bending strength $\delta$	109	84	N/mm <sup>2</sup>
Tensile strength	32	32	N/mm <sup>2</sup>
Elasticity module	55000	40000	N/mm <sup>2</sup>
Thermal conductivity $\lambda$	0,55	0,55	W/mK
Sound insulation	28	30	dB
Board weight	16,8	21	kg/m <sup>2</sup>
Humidity content	6	6	%
Water absorbency	14	14	%

Dimensional tolerances of standard boards: 6 mm & 9,5 mm  
Lengths and widths:  $\pm 1,0$  mm  
Thicknesses  
 $\pm 1,5/-0$  (6 mm) /  $\pm 1,0/-0$  (9,5 mm)

## STANDARD SIZES

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

Dimensions	boards/pallet
1200 x 2500 x 6 mm	30
1200 x 2500 x 9,5 mm	25

