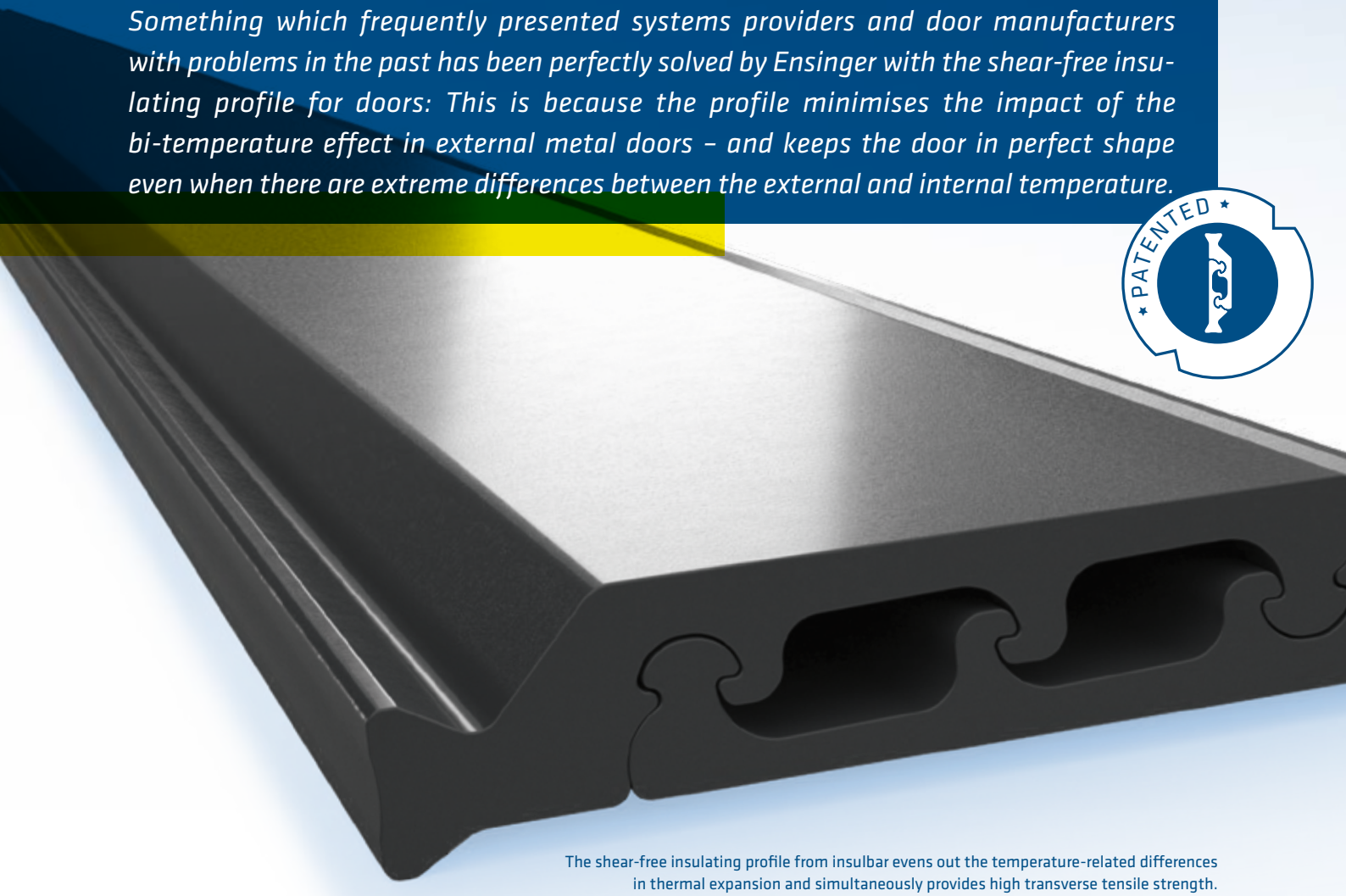
insulbar®

Ensinger

Shear-free insulating profile from insulbar® –
keeps metal doors in perfect shape

The solution for thermally separated doors

Something which frequently presented systems providers and door manufacturers with problems in the past has been perfectly solved by Ensinger with the shear-free insulating profile for doors: This is because the profile minimises the impact of the bi-temperature effect in external metal doors – and keeps the door in perfect shape even when there are extreme differences between the external and internal temperature.



The shear-free insulating profile from insulbar evens out the temperature-related differences in thermal expansion and simultaneously provides high transverse tensile strength.

Deformed doors are a thing of the past

Aluminium doors can become significantly deformed, primarily when exposed to a lot of sun but also on particularly cold days. The outer aluminium shell expands or contracts, and the whole assembly bulges outwards or inwards. In extreme cases, the door can no longer be closed as a result. The insulbar shear-free profile is now putting an end to that!

The future belongs to the shear-free insulating profile

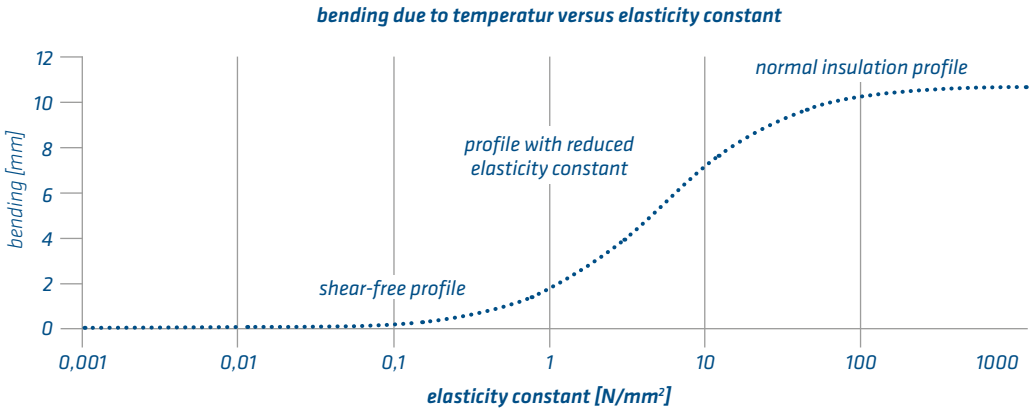
The patented, shear-free insulating bar consists of two intermeshing parts. With temperature-related, differing linear expansion of the inner and outer shells, the two parts move against one another. This generates a moveable, corrective insulating zone which minimises the bi-temperature effect and reduces deformation effectively.

Noticeably more effective than conventional solutions

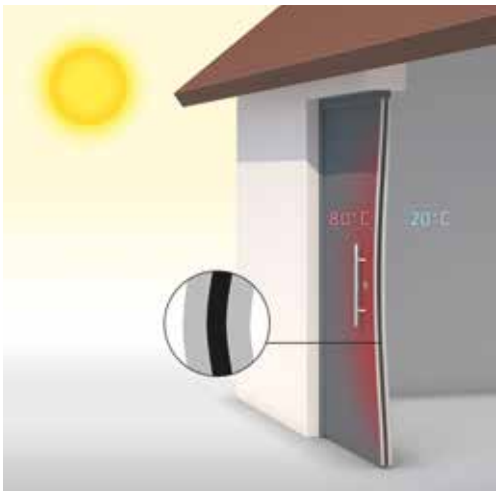
The shear-free insulating profile minimises the bi-temperature effect significantly better than the shear-weak profiles used hitherto:

→ thanks to minimum shear rigidity and low shear resistance

→ with high transverse tensile strength through optimised geometry



The shear rigidity of the shear-free insulating bar from insulbar is almost zero. Deformation of the assembly is thus minimised and the door keeps its shape.



Aluminium assembly with normal insulating profile: the large temperature difference causes the door to become deformed.

Aluminium assembly with shear-free insulating profile from insulbar: the flexible insulation zone evens out the differing linear expansion between the inner and outer shells effectively.

Flexible to use and easy to process

The shear-free system is inserted like a conventional insulating bar and is available in different sizes between 20 - 46 mm. This allows fabricators to adopt this innovative solution into existing designs without any engineering changes required. It goes without saying that we are happy to support you with developing new door systems and can provide you with relevant samples.

insulbar Germany

Ensinger GmbH
Rudolf-Diesel-Straße 8
71154 Nufringen
Tel. +49 7032 819 0
Fax +49 7032 819 270
insulbar@ensingerplastics.com

Ensinger GmbH
Wilfried-Ensinger-Straße 1
93413 Cham
Tel. +49 9971 396 0
Fax +49 9971 396 570
insulbar@ensingerplastics.com

insulbar worldwide

France
Ensinger France S.A.R.L.
Rue des Petites Combes
ZAC des Batterses
01700 Beynost
Tel. +33 4 78 55 36 35
Fax +33 4 78 55 68 41
contact@ensinger.fr

Italy
Ensinger Italia S.R.L.
Via Franco Tosi 1/3
20020 Olcella di Busto Garolfo
Tel. +39 0331 562 111
Fax +39 0331 567 822
insulbar.it@ensingerplastics.com

Spain
Ensinger S.A.
Girona, 21-27
08120 La Llagosta
Tel. +34 935 74 57 26
Fax +34 935 74 27 30
insulbar@ensinger.es

United Kingdom
Ensinger Building Products Ltd.
Wilfried Way
Tonyrefail
Mid Glamorgan
CF39 8JQ
Tel. +44 1443 678 400
Fax +44 1443 671 153
ebp-uk@ensingerplastics.com

China
Ensinger (China) Co., Ltd.
1F, Building A3
No. 1528 Gumei Road
Shanghai 200233
Tel. +86 21 522 851 11
Fax +86 21 522 852 22
info@ensinger-china.com

USA
Ensinger Inc.
1 Main St.
Grenloch, NJ 08032
Tel. +1 856 227 0500
Fax +1 856 232 1754
insulbar@ensingerusa.com

insulbar.com