

Technical data sheet

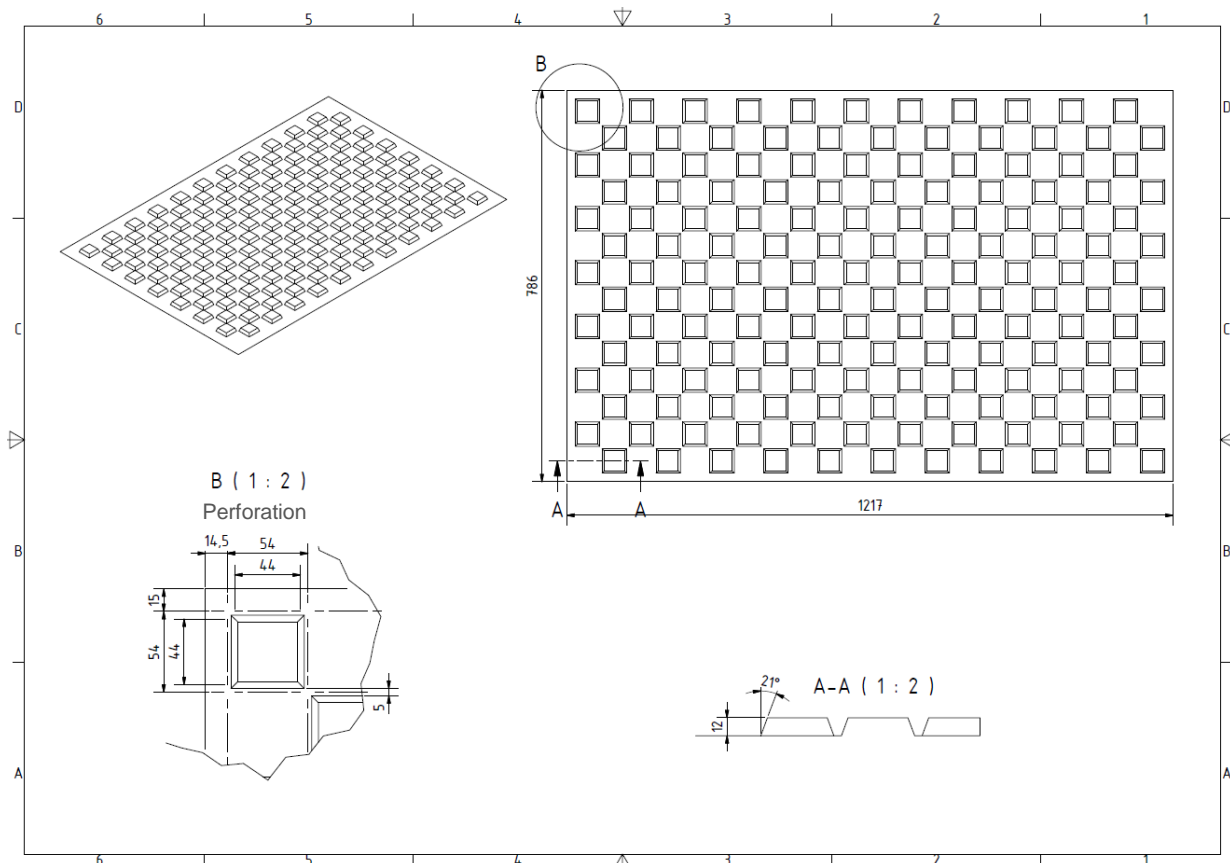
Joint profile former

according to DIN EN 1992-1-1 for the transmission of shear forces in joints

- Smooth plastic, therefore loosens from concrete easily
- Multiple use possible
- Adaptation by cutting and breaking in line with building site conditions possible
- Replaces trapezoidal strips
- The joint profile former meets the requirements of DIN EN 1992-1-1 for the highest category "indented" to 90 %.



Article number	Dimensions cm	Profile height mm	Version
FFP12083	121.7 x 78.6	12	with perforation
FFPO12083	121.7 x 78.6	12	without perforation



Max Frank GmbH & Co. KG

Mitterweg 1 | 94339 Leiblfing | Germany | Telefon +49 9427 189-0 | Telefax +49 9427 1588 | info@maxfrank.com

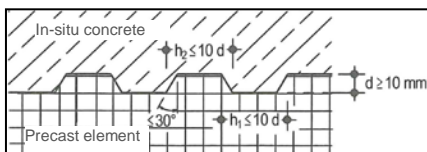
355TM01/06-INTGB-01/18

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The MAX FRANK joint profile former gives the concrete the optimal structure for the transmission of shear forces in joints between

- adjacent precast elements
- in-situ concrete and a prefabricated component
- subsequently concreted in-situ concrete sections

Nominal values of the computationally absorbable shear force (kN/m²) in joints for standard concrete:



Compressive strength class standard concrete	absorbable shear force in kN/m ²	Compressive strength class standard concrete	absorbable shear force in kN/m ²
C12/15	294	C35/45	589
C16/20	348	C40/50	669
C20/25	401	C45/55	723
C25/30	482	C50/60	776
C30/37	535		

Joint design with indentation (DIN EN 1992-1-1)

- 1st concreting section
- 2nd concreting section
- Anchorage of reinforcement

Indented joint: For an indented joint, the indentation should be designed as shown (with $0.8 \leq h_1/h_2 \leq 1.25$) or, when using aggregates of $d_g \geq 16$ mm, the aggregate skeleton should be exposed by at least 6 mm, or a defined roughness should be given (average peak-to-valley height $R_t \geq 3.0$ mm or maximum profile peak height $R_p \geq 2.2$ mm).

Nominal value of the absorbable shear force in joints of composite components made of standard concrete including the joint between the ceiling and wall elements:

$$V_{Rdi,c} = C \cdot f_{ctd} + \mu \cdot \sigma_n$$

C	Factor according to the adjacent chart; in case of dynamic fatigue stress, $c = 0$ shall apply
μ	Factor of shear friction according to the adjacent chart
σ_n	Stress due to the outer longitudinal force vertical to joint surface (positive pressure) with $\sigma_n = n_{Ed} / b < 0.6 \cdot f_{cd}$ (in N/mm ²);
n_{Ed}	lower nominal value of normal force vertical to joint
f_{ctd}	Factor of concrete tensile strength of the 1 st or 2 nd concreting section (small value decisive) with $f_{ctd} = a_{ct} \cdot f_{ctk;0,05} / Y_C$ in N/mm ² ($a_{ct} = 0.85$)

Surface	c	μ	v
indented	0.5	0.9	0.7
rough	0.40	0.7	0.5
smooth	0.20	0.6	0.2
very smooth	0	0.5	0

The user must check the suitability of use of the products in the actual installation situation. This information sheet is subject to constant updates. We therefore expressly reserve the right to make technical changes, even without prior notice to the customer. The respectively valid version can be found on our homepage at: www.maxfrank.de. In addition, our General Terms and Conditions of Sale apply.

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