BUILDING COMMON GROUND

MAX FRANK®

Manufacturer's Declaration

for temporary works calculation of Stremaform® formwork elements

By this Manufacturer's Declaration, MAX FRANK GmbH & Co. KG confirm that all products within the range of our Stremaform® formwork elements fulfil the ultimate limit state design according to the temporary works calculation (static report) dd. 24.01.2020, project: 460/2017 T.

The static verifications in the ultimate limit state were carried out for a

- **maximum fresh concrete pressure $\sigma_{hk,max}$ = 45 kN/m²**
  (thickness h ≤ 2000 mm or installation dimension ≤ 1800 mm)
- **maximum fresh concrete pressure $\sigma_{hk,max}$ = 32,7 kN/m²**
  (thickness h ≤ 3800 mm or installation dimension ≤ 3600 mm)

in compliance with the following boundary conditions:

- hydrostatic fresh concrete pressure $\sigma_{hk,max,hydr} = \gamma_c * H$
- specific weight (bulk density) of the fresh concrete pressure γ_c = 25 kN/m³
- adherence to the product-specific installation instructions for Stremaform® formwork elements acc. to MAX FRANK Homepage *www.maxfrank.com*.

According to DIN 18218 or CIRIA Report 108, the admissible rate of pouring ν [m/h] is determined by the load-bearing capacity (hydrostatic or maximum fresh concrete pressure) of the Stremaform® formwork elements and the final setting of the used concrete.

The following Stremaform® design variants have been demonstrated (image 1)

- Stremaform® formwork elements with an **intermediate stiffening** up to an **installation dimension of ≤ 500 mm** (installation dimension > 300 - ≤ 500 mm: intermediate stiffening **with a stirrup** for Stremaform® formwork elements with a sealing)

- Stremaform® formwork elements with a **stiffening** up to an **installation dimension of ≤ 800 mm**

- Stremaform® formwork elements with a **stiffening and back anchoring** up to an **installation dimension of ≤ 3600 mm**

Bracing depending on the installation dimension

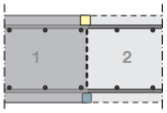
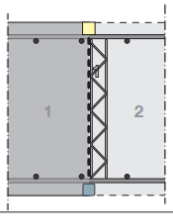
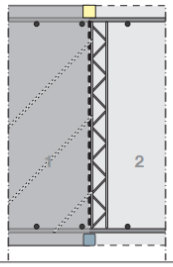
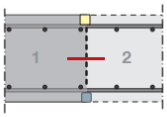
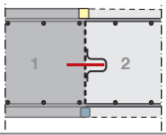
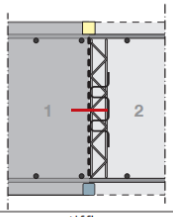
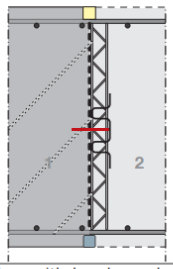
	Installation dimension ≤ 300 mm	Installation dimension ≤ 500 mm	Installation dimension ≤ 800 mm	Installation dimension ≤ 3600 mm
Without sealing				
Within sealing				
	intermediate stiffing	intermediate stiffing	stiffing	stiffing with back anchoring
	with such an installation dimension no further stiffe-nings are necessary	a stirrup at the sealing level stabilizes the entire cons-truction	lattice girders stabilize the element against the concre-te pressure	in addition to the lattice girders, a back-anchoring in the 1st concrete section is recommended

Image 1: Stremaform® design variants

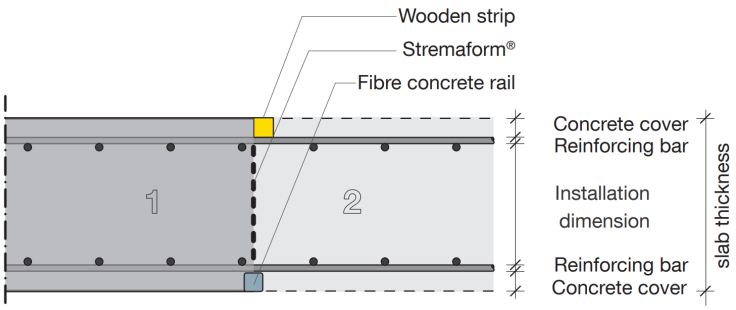


Image 2: Difference between the installation dimension and slab thickness

MF Product Management