

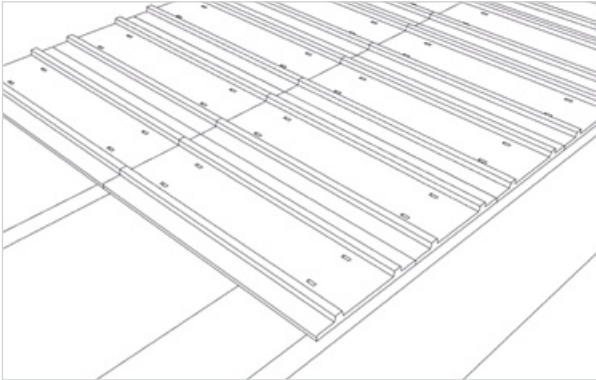
SPECIFIC PROCESSING CONDITIONS

T-FLOORS

Scope of these processing conditions

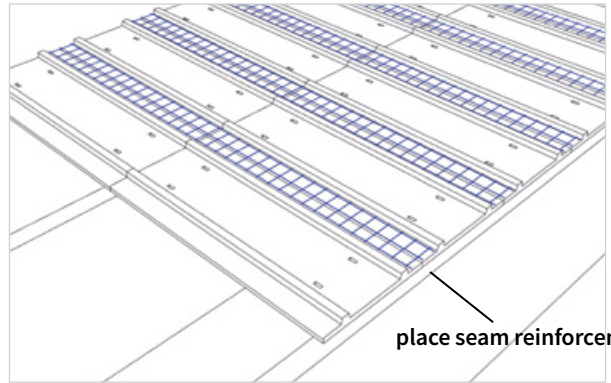
Type numbers: 503.000BL – 507.000BL – 508.000BR – 509.000BR

Placement and additional reinforcement



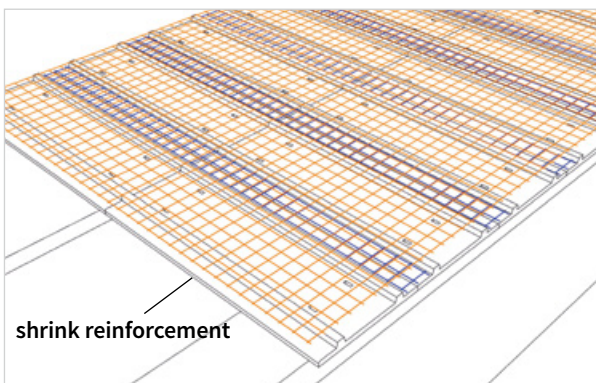
STEP 1: INSTALL T-FLOORS

Minimum support on both sides: 100 mm
(except 70 mm for type 503.245BL EN 507.245BL).



STEP 2: PLACE SEAM REINFORCEMENT

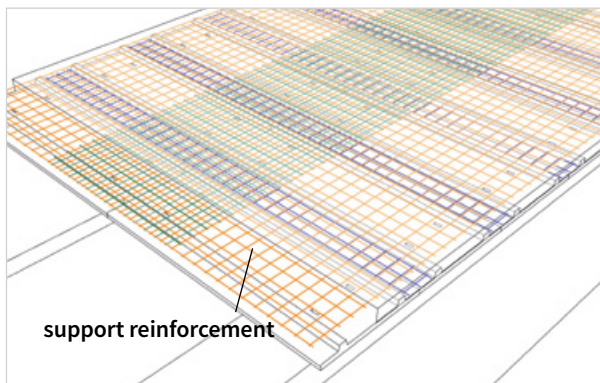
Diameter 6#150 between the plates.
The seam reinforcement must be placed 20 mm above the T-Floor.



STEP 3: PLACE SHRINK REINFORCEMENT

Diameter 6#150 (on top)
The shrink reinforcement must be placed 30 mm below the finished surface.





STEP 4: SUPPORT REINFORCEMENT

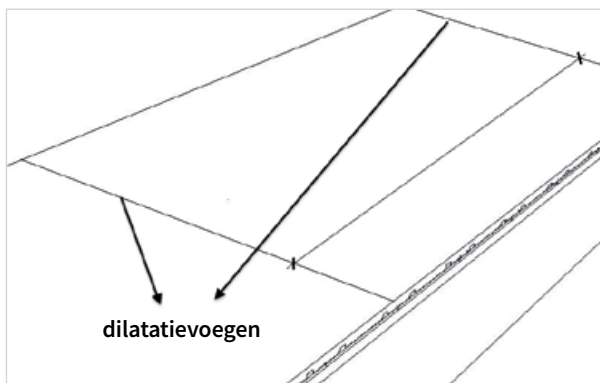
Guide values to limit crack width:

diameter 6#150 (up to 12,5 tons axle load)

diameter 8#150 (up to 20 tons axle load)

Explanation

The floors are dimensioned for free support. This means that no reinforcement is required above the supports. Anders Beton therefore does not calculate the support reinforcement. In practice, the reinforcement meshes and the concrete will continue above the supports. This means that, without special provisions, a crack will develop above the intermediate supports in the floor. If one wants to prevent/limit cracking, an extra reinforcement mesh must be placed above the intermediate supports over a width of 2 meters. Anders Beton provides the above guideline values from experience. Anders Beton takes no responsibility for this. If an exact calculation of the cracking is desired, the responsible constructor of the contractor must be called upon.



STAP 5: EXPANSION JOINTS

24 hours after pouring the compression layer, saw expansion joints every 600 cm with a height of 1/3 of the total thickness of the floor.

Compression layer schedules

The concrete quality of the compression layer must be at least C20/25.

The minimum quantity is shown in the tables below.

Standard schedules:

TYPE 503.000BL

After 28 days of curing, the floor can be loaded with 500 kg/m²

LENGTH T-FLOOR	COMPRESSION LAYER THICKNESS	TOTAL FLOOR THICKNESS	# LITERS OF CONCRETE/M ²
245cm ⁽³⁾	9cm	15cm	81
≤ 270 cm ⁽³⁾	9cm	15cm	81
275-300 cm ⁽¹⁾	11cm	17cm	101

TYPE 509.000BR

After 28 days of curing, the floor can be driven on with:

- 12.500 kg moving axle load
(track width 200 cm, axle distance 120 cm and wheel print 40 x 40 cm)
- 15.000 kg tipping axle load
(track width 200 cm, axle distance 200 cm and wheel print 40 x 40 cm)

LENGTH T-FLOOR	COMPRESSION LAYER THICKNESS	TOTAL FLOOR THICKNESS	# LITERS OF CONCRETE/M ²
≤ 300 cm	12 cm	18 cm	109
305-350 cm	15 cm	21 cm	139
355-380 cm ^{(1) (2)}	18 cm	24 cm	169
385-390 cm ^{(1) (2)}	19 cm	25 cm	179
395-400 cm ^{(1) (2)}	22 cm	28 cm	209

Explanation of the footnotes:

- (1) The T-Floor must be supported in the center of the plate before, during and up to 28 days after placing the compression layer.
- (2) For the German standards, the thickness of the compression layer must be increased by 1cm for plates with a length over 350 cm. There is 10 liters/m² more poured concrete needed.
- (3) The thickness of the compression layer must be increased in function of the desired coverage on the shrink reinforcement.

Special schedules:

After 28 days of curing, the floor can be driven on with:

- 4.000 kg moving axle load (track width 180 cm, axle distance 120 cm and wheel print 40 x 40 cm)

LENGTH T-FLOOR	COMPRESSION LAYER THICKNESS	TOTAL FLOOR THICKNESS	# LITERS OF CONCRETE/M²
≤ 350 cm ⁽³⁾	9cm	15cm	81
355-400 cm ^{(1) (3)}	9cm	15cm	81

TYPE 509.000BR – “HEAVY”

After 28 days of curing, the floor can be driven on with:

- 15.000 kg moving axle load
(track width 200 cm, axle distance 120 cm and wheel print 40 x 40 cm)
- 20.000 kg tipping axle load
(track width 200 cm, axle distance 200 cm and wheel print 40 x 40 cm)

LENGTH T-FLOOR	COMPRESSION LAYER THICKNESS	TOTAL FLOOR THICKNESS	# LITERS OF CONCRETE/M²
≤ 300 cm	15 cm	21 cm	139
305-350 cm	19 cm	25 cm	179
355-390 cm ^{(1) (2)}	23 cm	29 cm	219
395-400 cm ^{(1) (2)}	26 cm	32 cm	249

TYPE 509.000BR – “EXTRA HEAVY”

After 28 days of curing, the floor can be driven on with:

- 20.000 kg moving axle load
(track width 200 cm, axle distance 120 cm and wheel print 40 x 40 cm)
- 25.000 kg tipping axle load
(track width 200 cm, axle distance 200 cm and wheel print 40 x 40 cm)

LENGTH T-FLOOR	COMPRESSION LAYER THICKNESS	TOTAL FLOOR THICKNESS	# LITERS OF CONCRETE/M²
≤ 300 cm	21 cm	27 cm	199
305-350 cm ⁽¹⁾	25 cm	31 cm	239
355-390 cm ^{(1) (2)}	31 cm	37 cm	299
395-400 cm ^{(1) (2)}	35 cm	41 cm	339

