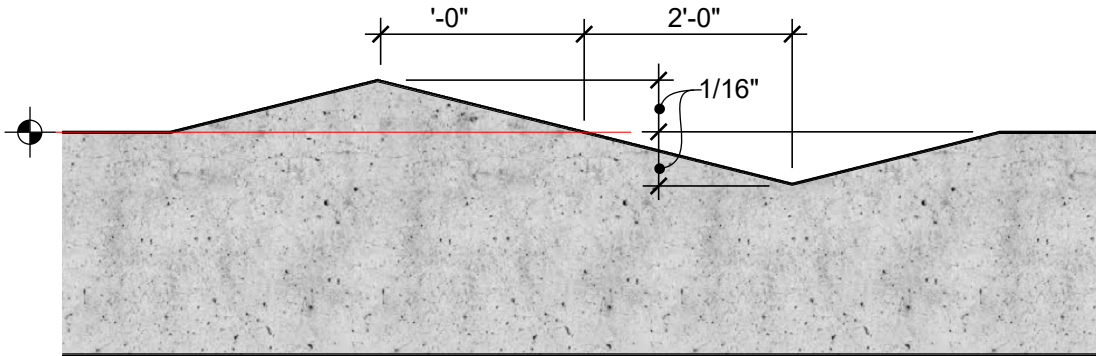
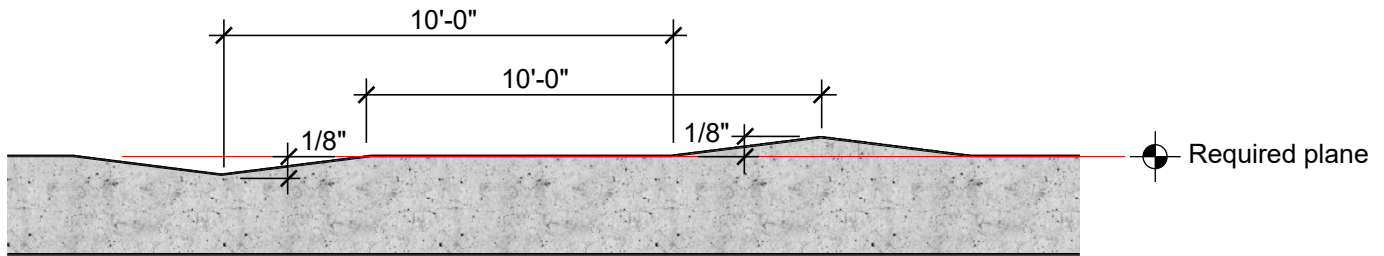


Showroom Floor Details

Slab Concrete Condition Concrete Floor Flatness



- 3** Concrete floor flatness for tile \geq 15 in. on one side
1/16" in 2 ft., max.



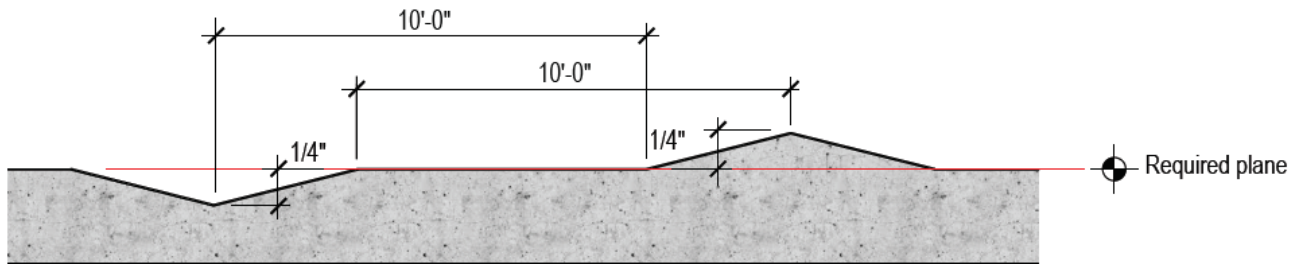
- 2** Concrete floor flatness for tile \geq 15 in. on one side
1/4" in 10 ft., max.

F-number measurements are standardized under ASTM E 1155 "Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers" and the ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction" provides F-number recommendations for hard-troweled slabs-on-ground and suspended slab surfaces.

Tile Size* (+/- 1/2" [12mm])	Grout Joint Width		
	1/4" (6mm) or wider	3/16" (5mm)	1/8" (3mm)
8" x 8" (200 x 200mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
12" x 12" (300 x 300mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
16" x 16" (400 x 400mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
18" x 18" (500 x 500mm)	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'
24" x 24" (600 x 600mm)	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'
36" x 36" (900 x 900mm)	F ₅₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'

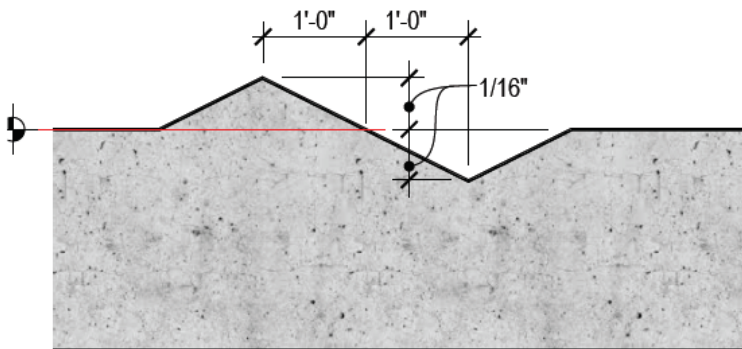
Service Drive & Workshop Floor Details

Slab Concrete Condition Concrete Floor Flatness



- 1 Concrete floor flatness for tile < 15 in. on one side
1/4" in 10 ft., max.

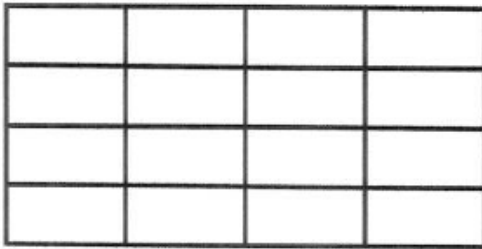
Concrete floor flatness diagrams for ceramic tile



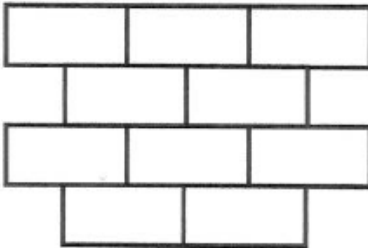
- 4 Concrete floor flatness
for tile < 15 in. on one side
1/16" in 1 ft., max.

F-number measurements are standardized under ASTM E 1155 "Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers" and the ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction" provides F-number recommendations for hard-troweled slabs-on-ground and suspended slab surfaces.

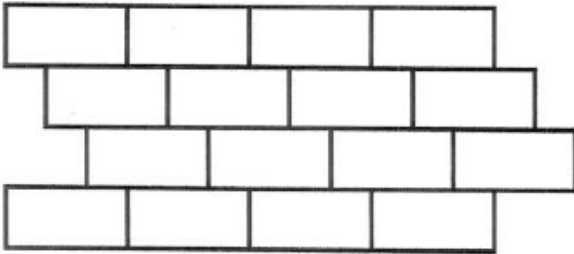
Tile Size* (+/- 1/2" [12mm])	Grout Joint Width		
	1/4" (6mm) or wider	3/16" (5mm)	1/8" (3mm)
8" x 8" (200 x 200mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
12" x 12" (300 x 300mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
16" x 16" (400 x 400mm)	F ₃₅ or 1/4" in 10'	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'
18" x 18" (500 x 500mm)	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'
24" x 24" (600 x 600mm)	F ₄₅ or 3/16" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'
36" x 36" (900 x 900mm)	F ₅₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'	F ₆₀ or 1/8" in 10'



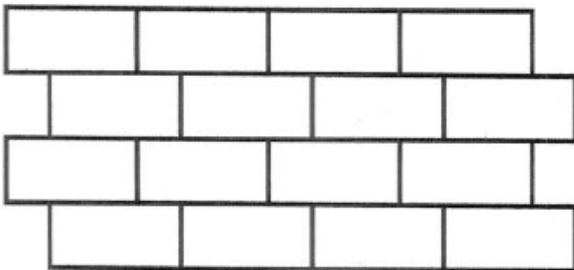
Common pattern names :
On grid, stacked bond



Common pattern names :
1/2 running bond, brick



Common pattern names :
1/3 running bond
1/3-2/3 running bond



Common pattern names :
1/3 running bond

The purpose of every choice but the 1/2 running bond is to minimize any lippage created due to the bowing of the tile. All tile, no matter who the manufacturer is, is not actually flat (except perhaps polished). The larger and/or longer the tile, the greater the deviation from flat. Any tile that is 48" long for instance should not be laid in a 1/2 running bond pattern, it would have unacceptable lippage every 24".