

► DESCRIPTION

UCAN powder actuated fasteners are manufactured from high quality spring steel wire. For optimum hardness and toughness, all fasteners are heat treated to a core hardness of RC 50 - 54. To provide protection against corrosion, fasteners are zinc plated to a thickness of minimum 0.0003" (7.5µm).

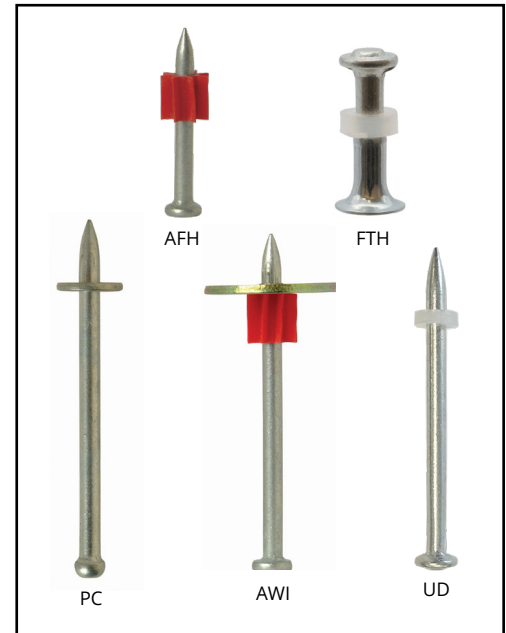
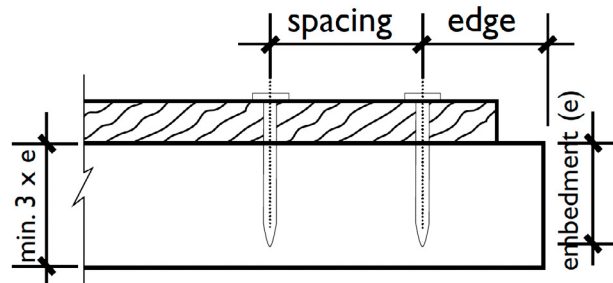
► MATERIAL SPECIFICATION

Tensile Strength = 1,800 MPa (269,700 psi)

Shear Strength = 1,160 MPa (168,200 psi)

► APPLICATION LIMITS FOR FASTENING TO CONCRETE

1. Do not fasten into cracks or spalled areas
2. Concrete thickness > 4" (100 mm)
3. Min. distance between fasteners > 3" (75 mm)
4. Min. edge distance > 3" (75 mm)
5. Shank Diameter = 0.145"
6. Other influencing factors are: concrete strength, age of concrete, aggregate size.
7. The optimal fastener penetration (e) for maximum holding power in concrete:
 - less than 2000 psi 1-1/2"
 - 2000 psi : 1"
 - 5000 psi : 3/4"

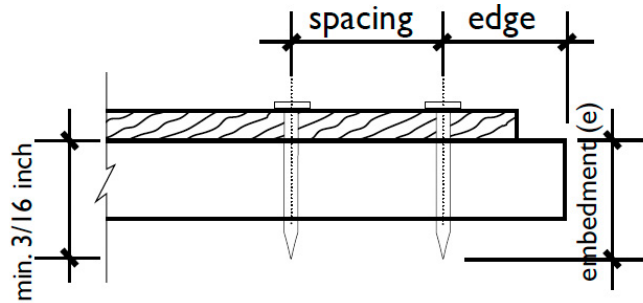


► ALLOWABLE WORKING LOADS IN CONCRETE (LBS)

Shank Diameter	Penetration	Concrete Compressive Strength					
		2000 psi		3500 psi		5000 psi	
		Tension	Shear	Tension	Shear	Tension	Shear
0.145"	1"	110	150	180	180	215	200
	1-1/4"	128	180	190	200	222	234
All values shown includes the safety factor of 8:1							

► APPLICATION LIMITS FOR FASTENING TO STEEL

1. Do not fasten into cracks or spalled areas
2. Concrete thickness > 4" (100 mm)
3. Min. distance between fasteners > 3" (75 mm)
4. Min. edge distance > 3" (75 mm)
5. Shank Diameter = 0.145"
6. Other influencing factors are: concrete strength, age of concrete, aggregate size.
7. The optimal fastener penetration (e) for maximum holding power in concrete:
 - less than 2000 psi 1-1/2"
 - 2000 psi 1"
 - 5000 psi 3/4"



► ALLOWABLE WORKING LOADS IN STEEL (LBS)

Shank Diameter	Steel thickness (inch)					
	1/4"		3/8"		1/2"	
	Tension	Shear	Tension	Shear	Tension	Shear
0.145"	453	645	511	705	690	705
All values shown includes the safety factor of 5:1						