



PowerLite®

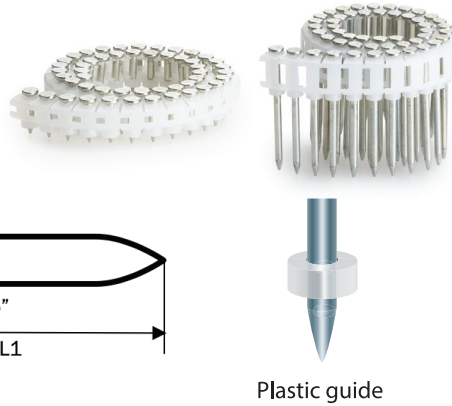
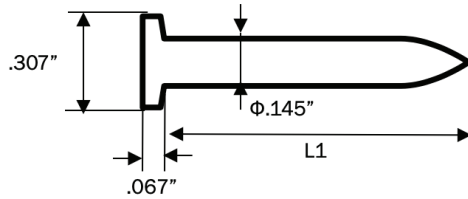
CP-C8##W7-ICC .145" Pins for Concrete

MAX



Product data

Dimensions



Plastic guide

Item name	L1	Guide	Pins/Coil	Case Qty.
CP-C819W7-ICC	3/4"	Plastic	50	1,000 Pins
CP-C825W7-ICC	1"	Plastic	50	1,000 Pins
CP-C832W7-ICC	1-1/4"	Plastic	50	1,000 Pins
CP-C838W7-ICC	1-1/2"	Plastic	50	1,000 Pins
CP-C851W7-ICC	2"	Plastic	50	1,000 Pins
CP-C864W7-ICC	2-1/2"	Plastic	50	1,000 Pins

General Information

Material : Carbon Steel

Hardness : $\geq$ HRC55

Electrogalvanized with a zinc chromate : $\geq 2\mu\text{m}$

Tool

PowerLite® HN120
Concrete/ Steel Pinner



Approvals

ICC-ES
ESR-2024
ESR-4320
ESR-4320 LABC / LARC Supplement



Applications

Metal Track to Concrete



Metal Track



Metal Track

Wood to Concrete



Hardwood Flooring



Sill plate



Fastening to Concrete

Allowable Loads

- Normal weight concrete -

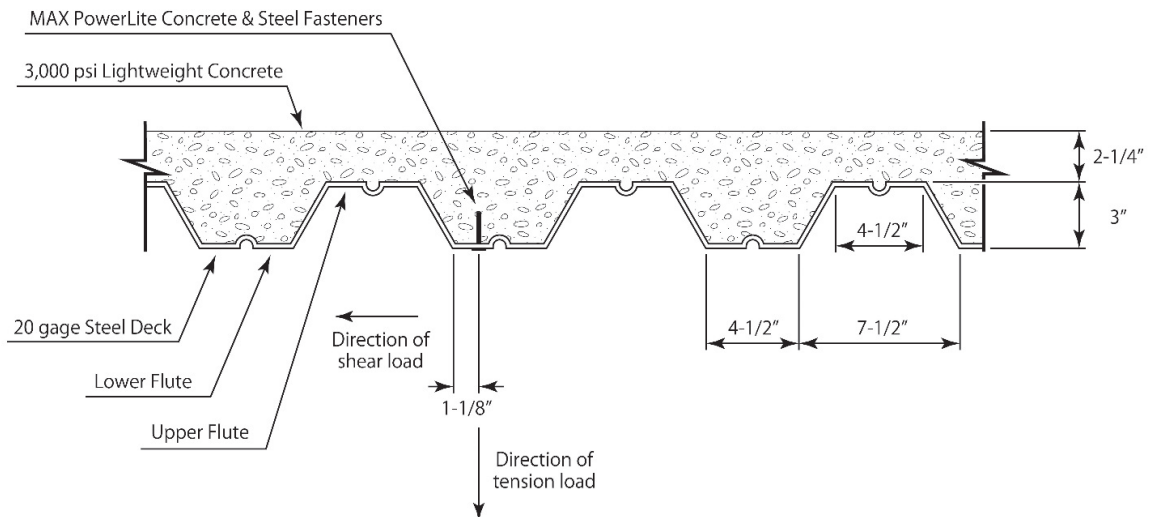
Allowable Loads (lbf)					
	Concrete Compressive Strength	2,500 psi		4,000psi	
	Load Direction	Tension	Shear	Tension	Shear
Minimum embedment depth	3/4"	140	100	175	300
	1"	240	205	300	575
	1 1/4"	355	310	435	650
	1 1/2"	385	430	—	—



- Minimum 3,000 psi light weight concrete and light weight concrete filled steel deck panel -

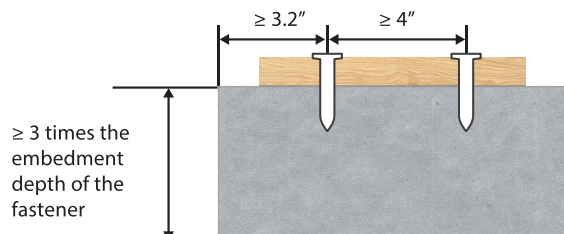
Allowable Loads (lbf)					
	Deck Type	Fasteners Installed Directly into Concrete		Fasteners Installed Through Steel Deck Panel into Concrete	
		n/a		3" Deep Steel Deck	
		Tension	Shear	Lower Flute	
	Load Direction			Tension	Shear
Minimum embedment depth	3/4"	75	90	65	195
	1"	180	250	130	315
	1 1/4"	280	345	225	300
	1 1/2"	380	410	245	385

Deck panels must be minimum 0.0347-inch-thick with a specified yield strength of 50 ksi, and a minimum specified tensile strength of 65 ksi.



Application requirements

- Thickness of Concrete : ≥ 3 times the embedment depth of the fastener
- Edge distance (Concrete) : ≥ 3.2 inches
- Edge distance (Steel deck panel) : $\geq 1 \frac{1}{8}$ inches
- Spacing : ≥ 4.0 inches



Pin Selector

Top Member	Item name
Light gauge Steel ≤ 12 Ga	CP-C819W7-ICC
Plywood $\leq 1/4$ "	CP-C825W7-ICC
Plywood $\leq 5/8$ "	CP-C832W7-ICC
Plywood $\leq 3/4$ "	CP-C838W7-ICC
Plywood ≤ 1 "	CP-C851W7-ICC
2X4 Wood	CP-C864W7-ICC