



***Ramset*[®] I-F**

Insulation Fastening System

NEW!
T4 I-F
GAS TOOL



**THE
FASTER
AND SAFER,
INDUSTRY-APPROVED
THERMAL BREAK
FASTENER**



Above acoustical ceilings



Foundations & basements



Interior walls on concrete block



Behind cladding over wood stud walls



Behind cladding over concrete block walls



Behind cladding over steel stud walls

Ramset I-F Insulation Fastening System



Installs in seconds

- Up to 4x faster than stick pins
- One-step installation
- Eliminates all fastener-related pre/post work



Reduces injuries

- Fewer hand injuries from sharp stick pins
- Less recoil than powder tools
- Reduced torque than screw installations



Meets rigorous industry standards

- First to market and third-party-tested/approved
- Recommended by multiple insulation manufacturers



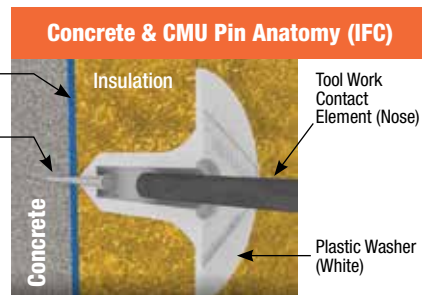
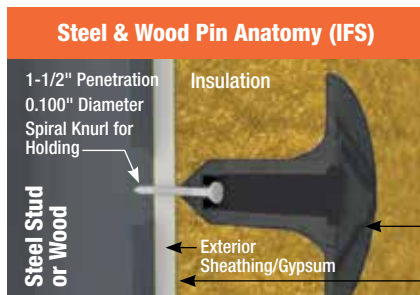
Reduces thermal bridging

- Integrated cap creates thermal break
- Saves energy – reduces building heating and cooling costs
- Up to 27x more efficient than other methods



Performs in multiple environments

- Works with insulation up to 6 inches thick
- Attaches directly to concrete, block, steel stud, and wood
- Works in all weather conditions



Ramset-I-F will fasten into:



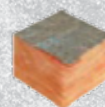
Mineral Wool



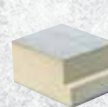
Extruded Polystyrene (XPS)



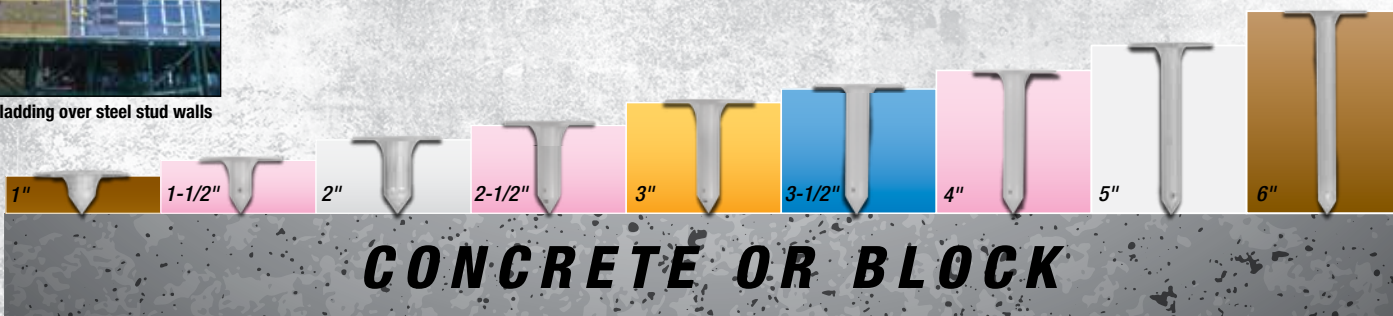
Expanded Polystyrene (EPS)



Fiberglass



Polyisocyanurate (Poly ISO)





Depth adjuster

Get optimal pin performance by adjusting the setting based on type of base material.



Auto Shut Off/On

Won't drain the Li-Ion battery when not in use

Fuel cell included in every box of fasteners

Never have to stall a job

Fuel and battery gauges

No interruptions in your day because you always know where your tool stands

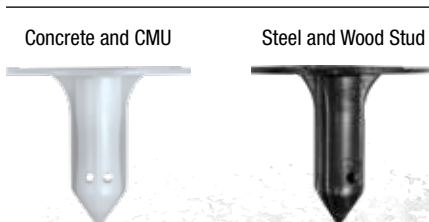


Integrated Cap

Closed cap creates thermal break
99.5% thermally efficient when cap is closed

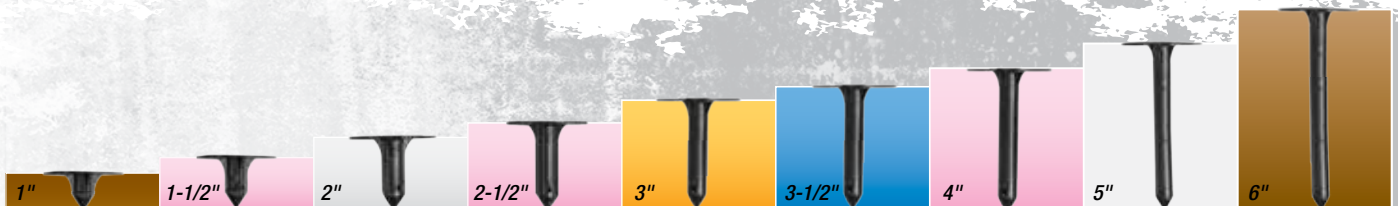
Washer Diam. 2-3/8"

Large bearing surface keeps insulation from sagging



FASTENER SELECTION CHART

INSULATION THICKNESS	CONCRETE OR BLOCK PART NO.	STEEL OR WOOD PART NO.	BOX QTY
1"	T4IFC-100	T4IFS-100	500
1-1/2"	T4IFC-112	T4IFS-112	500
2"	T4IFC-200	T4IFS-200	500
2-1/2"	T4IFC-212	T4IFS-212	500
3"	T4IFC-300	T4IFS-300	500
3-1/2"	T4IFC-312	T4IFS-312	500
4"	T4IFC-400	T4IFS-400	500
5"	T4IFC-500	T4IFS-500	500
6"	T4IFC-600	T4IFS-600	400
Tool	T4IF	T4IF	1



STEEL OR WOOD



Performance Data

		Insulation Thickness					
		1 in	2 in	3 in	4 in	5 in	6 in
Reference	U – Factor (W/m ² °C)	1.1786	0.7122	0.5103	0.3976	0.3257	0.2758
	Efficiency (%)	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Stick Pin	U – Factor (W/m ² °C)	1.2422	0.7706	0.5597	0.4397	0.3621	0.3078
	Efficiency (%)	94.88%	92.42%	91.17%	90.43%	89.94%	89.59%
Ramset I-F	U – Factor (W/m ² °C)	1.1845	0.7162	0.5132	0.3999	0.3276	0.2773
	Efficiency (%)	99.50%	99.45%	99.44%	99.43%	99.42%	99.42%



For tool repair, please visit
www.ramsetrepair.com
 or call 800-222-6990.

CONCRETE

PART NUMBER SERIES	CONCRETE STRENGTH (PSI)	ALLOWABLE/ULTIMATE TENSION LOADS (Lbs)
IFC	3600 - 6500	35 - 211

HOLLOW CONCRETE BLOCK

PART NUMBER SERIES	ALLOWABLE/ULTIMATE TENSION LOADS (Lbs)
IFC	35 - 184

STEEL STUDS

PART NUMBER SERIES	SHANK DIAMETER (INCH)	INSTALLED IN COLD FORMED STEEL FRAMING (lbf)					
		22 Gage	20 Gage	18 Gage	16 Gage	14 Gage	12 Gage
IFS (Knurled)	0.100	20 - 120	33 - 200	46 - 280	60 - 360	62 - 371	75 - 448

WOOD

PART NUMBER SERIES	SHANK DIAMETER (INCH)	INSTALLED IN 15/32" (1/2" NOMINAL) 4 PLY PLYWOOD SHEATHING (lbf)
IFS (Knurled)	0.100	16 - 93

Add this specification to the project...

Specification: CSI Division 07-Thermal and moisture protection insulation shall be mechanically fastened to the building substrate or component with Ramset I-F Thermal-Break insulation fasteners from Illinois Tool Works.

Evaluations:

ICC-ESR-1955
 ASTM E331 (Water Penetration)
 ASTM E2178 (Air Leakage)
 ASTM E84 (Surface Burning Characteristics)

Fastener Specifications:

- Pin Material: Heat treated carbon steel
- Pin Finish: Mechanical Zinc Plated
- Washer Material: High Density Polyethylene (HDPE)
- Pin Diameter: ~0.125" for concrete, 0.100" for steel
- 2-3/8" Holding Diameter
- Each fastener has clear branding along with length of fastener assembly