



## TRUE MONOLITHIC CONTINUOUS INSULATION

NEW CONSTRUCTION RETROFIT SHIPPING CONTAINER

### SEAMLESS INTEGRATION FOR EVERY BUILD

The X-Bracket System features a matrix of brackets designed to securely hold furring strips on walls, ceilings, roofs, and floors. Suitable for interior or exterior use, it works with wood, steel, or concrete surfaces.

#### **FASTENING OPTIONS:**

- Nail or screw to wood substrates
- Screw to steel studs or hat channels
- Apply adhesive to the back of the bracket for secure attachment to steel shipping containers, concrete surfaces, basements, or masonry above-grade structures

#### **INSULATION OPTIONS:**

- Closed-cell Spray Foam
- Loose-fill Insulations
- Blown-in rockwood
- Fiberglass
- Cellulose



New Construction & Retrofits: Works over existing siding or roofing without tear-offs. Basements & Masonry: Adheres securely to concrete and CMU walls. Specialty Projects: Ideal for shipping containers, steel structures, and remodels.



## EXPERTLY DESIGNED EASILY INSTALLED

SIZING FEATURES & BENEFITS



#### **CORE FEATURES**

- Continuous Insulation: Seamless thermal envelope, from foundation to roof peak with minimal bridging
- Energy-Saving Design: Prevents drafts, ice dams, and energy loss
- Simplified Installation: Fewer layers; standard tools-no specialized training required

#### **PERFORMANCE BENEFITS**

- Thermal Efficiency: Enhances R-value, eliminates drafts, and supports Net Zero and Passive House standards
- Health & Comfort: Promotes filtered indoor air, reduces noise, and eliminates risks like rot, mold, and pests
- Durability: Strengthens structure, resists moisture and pests, and is easy to repair
- Versatility: Ideal for new construction, retrofits, and a variety of surfaces and insulation types











InSoFast. **X-BRACKET® SYSTEM** 

## TRADE-ALIGNED, CONSTRUCTION-SIMPLIFIED

SIMPLE INSTALL BETTER SEQUENCING

## CONSTRUCTION BENEFITS



#### **LOWER LABOR COSTS**

- No Complex Framing: Eliminate methods like Larsen trusses and monopoly framing. Framers maintain their workflow-install the X-Bracket and advance to the next phase
- No Specialized Skills: Insulators and contractors can focus on their specific trade without extra training
- Easier Installation: Standard tools and fewer steps reduce labor hours

#### STREAMLINED WORKFLOW

- Simple for Every Trade: Each trade can work independently-framers install, insulators insulate-no overlap
- Quick Completion: Fewer processes mean faster project turnaround

#### **VERSATILE FOR RETROFITS & NEW BUILDS**

- No Disruption: Retrofit projects stay on the exterior, so homeowners don't need to vacate
- Adaptable: Works for both new builds and retrofits without structural changes



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InSoFast. **X-BRACKET® SYSTEM** 

## **CERTIFIED STRENGTH, LASTING** DURABILITY, UNMATCHED PERFORMANCE.

Demonstrating the X-Bracket's durability, reliability, and ability to meet rigorous building codes. The X-Bracket is designed to handle real-world forces, ensuring the integrity of a continuous insulation system while simplifying the construction process.



**DrJ Technical** 



#### **Compressive & Tensile Strength**

Product	Compressive Strength (lb)	Tensile Strength (lb)		
X-Bracket	2,010	590		

#### **Uplift Loading**

Product	Substrate	Connection Method	Quantity	Allowable Uplift Load (lb)
X-Bracket		Ding Shark Francing Nail	4	215
	Wood	king Shank Framing Naii	2	110
		#8 or Larger Construction Screw	2	330
	Cold-formed Steel (CFS) Stud. 20 gguge	#12 Self-Drilling Screw	2	250
	Steel		N/A	385
	Concrete	Adhesive	N/A	480



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### **X-BRACKET® SYSTEM**

### CERTIFIED STRENGTH, LASTING DURABILITY, UNMATCHED PERFORMANCE.

Wind Loading

	<b>a</b>		Vertical	Allowable	Allowable	Basic Wind Speed (mph)		
Substrate Connection Method		Horizontal Fastener Spacing	Fastener Spacing	Uplift Capacity per Bracket (lb)	Wind Pressure (psf)	Exposure B	Exposure C	Exposure D
		16	16		84	222	190	176
			24		56	181	155	144
			36		38	149	128	118
	(4) 0.120"		48	150	28	128	110	102
	Framing Nail		16	150	56	181	155	144
		24	24		38	149	128	118
		24	36		25	121	104	96
		48		19	105	90	84	
			16		42	157	134	124
		24		28	128	110	102	
		16	36		19	105	90	84
(2) 0.120"		48	75	14	90	78	72	
vvood	Framing Nail	24	16	75	28	128	110	102
			24		19	105	90	84
			36		13	87	75	69
			48		9	73	62	58
			16		186	330	283	262
(2) #8 Construction Screw	16	24	- 330	124	269	231	214	
		36		83	220	189	175	
		48		62	190	163	151	
		16		124	269	231	214	
		24	24		83	220	189	175
			36		55	179	154	142
			48		41	155	133	123

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Wind Loading

		11		Allowable Uplift Capacity per Bracket (lb)	Allowable Wind Pressure (psf)	Basic Wind Speed (mph)		
Substrate Connection Method	Connection Method	Fastener Spacing	Fastener Spacing			Exposure B	Exposure C	Exposure D
		16		101	267	223	205	
			24		68	219	183	168
		16	36		45	178	149	137
	(2) #8 Self-		48	100	34	155	130	119
	Drilling Screw		16	180	68	219	183	168
			24		45	178	149	137
		24	36		30	145	122	112
			48		23	127	107	98
			16		124	295	248	227
			24		83	242	203	186
		10	36		55	197	165	151
	(2) #10 Self-		48		41	170	142	130
CFS Stud	Drilling Screw		16	220	83	242	203	186
			24		55	197	165	151
		24	36		37	161	135	124
			48		28	140	118	108
		16	16	250	141	287	246	228
			24		94	234	201	186
			36		63	192	164	152
	(2) #12 Self-		48		47	166	142	132
	Drilling Screw		16		94	234	201	186
		24	24		63	192	164	152
		24	36		42	157	134	124
			48		31	135	115	107
		16	16	- 205	217	356	305	283
			24		144	290	249	230
	Adhasiya		36		96	237	203	188
Stool			48		72	205	176	163
Sieei	Adhesive	24	16		144	290	249	230
			24		96	237	203	188
			36		64	193	166	153
			48		48	168	144	133
Constanting Addition		16	16	480	270	397	340	315
			24		180	324	278	257
			36		120	265	227	210
	Adhesive		48		90	229	197	182
Concrete	Adhesive	24	16		180	324	278	257
			24		120	265	227	210
			36		80	216	185	172
			48		60	187	160	149



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# CERTIFIED STRENGTH, LASTING DURABILITY, UNMATCHED PERFORMANCE.

X-Bracket Load Capacity

Product	Substrate	Connection Method	Description	Lateral Load (lb)	
X-Bracket	Man d	0.120" x 3" Framing	4 nails total	325	
	Wood	Nail	2 nails total	245	
		#8-18 x 11/4" Self- Drilling Screw	2 screws total	110	
	CFS Stud	#10-18 x 11/4" Self- Drilling Screw	2 screws total	110	
		#12-18 x 11/4" Self- Drilling Screw	2 screws total	110	
	Steel		3/8" bead size	120	
	Concrete	Adhesive	applied in a circular pattern	170	

#### Fasteners installed into X-Brackets

Product	Fastener	Withdrawal (lb)
	#8 Construction Screw	195
X-Bracket	#10 Construction Screw	205
	#12 Self-Drilling Screw	190



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