



CLIP EXPRESSSM

ENGINEERED FOR WOOD.
DESIGNED FOR
CONFIDENCE.

CLARKDIETRICH CLIP EXPRESSSM STANDS ALONE IN THE INDUSTRY.

The vast lineup of products, quick delivery service and philosophy are unique in every respect—and especially in sum total. That’s because Clip Express was created to give our customers an unmatched level of confidence.

EVERYTHING YOU NEED FROM ONE CONVENIENT SOURCE.

We know that having the right products, at the right time, and at the right price is absolutely essential to getting the job done. Clip Express is your at-the-ready resource for getting a wide selection of connectors designed specifically for wood framing—and getting them fast. Our lineup has you covered when it comes to the most-needed applications: angle clips, truss and rafter clips, plus straps and hangers are all included.

CONSISTENT, HIGH-QUALITY PRODUCTS.

When you design or specify by ClarkDietrich product name or number, you get fully engineered and rigorously tested systems and connectors—the same precision-formed products each and every time. It’s exactly the kind of thing you’d expect from a partner like ClarkDietrich.

VALUE THAT CONTRIUTES TO YOUR BOTTOM LINE.

While you may find a cheaper price than ClarkDietrich, you won’t find a lower overall cost or better value. We offer unmatched service through numerous plants and engineering offices—and nationwide product availability. From technical assistance to complete engineering services, we’ve truly put together an incredible array of resources to help you be successful on any project.

CONNECTIONS YOU CAN COUNT ON.

If getting what you want, when and how you want it is a must, ClarkDietrich Clip Express is ready to deliver. In fact, a wide array of shipping options is available, from standard ground to overnight. If we get your order today, you can get it tomorrow. Count on ClarkDietrich to deliver products, systems and services that keep your costs down and productivity up. Need help with product selection, ordering, scheduling, delivery, or anything else? Call the Clip Express sales team: Clip Express—866-638-1908. Need Product Submittals? Use SubmittalPro[®] at clarkdietrich.com.

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Angles and Straps

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Gusset Clips

A one-piece design provides 3-way connection (top-bottom-side) for a variety of applications. Erection nail holes are provided to speed up installation.

The CDGC1 and CDGC2 attaches to truss gables and can be installed into wood. This provides greater lateral wind resistance.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

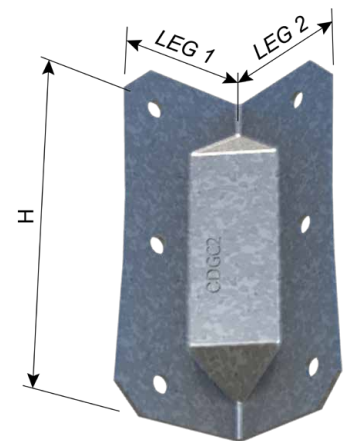
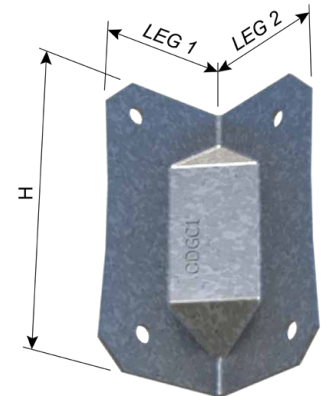
Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5079



Gusset Clips (CDGC)

Product Code	Gauge	Dimensions ⁴			Fastener Scheduling				LOAD ⁶ DIR.	Allowable Load (lbf)			
		H	L1	L2	Header		Joist			C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
					Qty.	Type ⁵	Qty.	Type ⁵					
CDGC1	18	2-25/32"	1-1/64"	1-1/64"	2	10d x 1-1/2	2	10d x 1-1/2	F ₁	235	235	235	235
									F ₂	275	275	275	275
CDGC2	18	3-5/16"	1-19/64"	1-19/64"	3	10d x 1-1/2	3	10d x 1-1/2	F ₁	320	320	320	320
									F ₂	400	400	400	400

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

¹ The tabulated allowable loads are for a single angle.

² The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 in ESR-0579 for additional design and installation requirements.

³ The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5079 report.

⁴ See images below for dimension definitions of W, L1 and L2.

⁵ Refer to Section 3.2.3 of ESR-5079 for nail actual sizes and the required minimum physical properties.

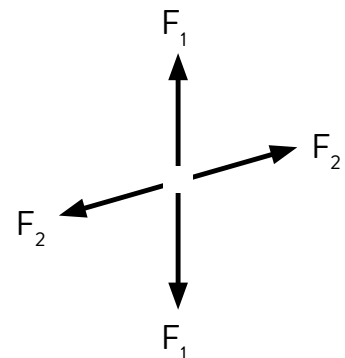
⁶ F₁ is the vertical download and F₂ is the load parallel to the header.



CDGC1 Installation



CDGC2 Installation



"L" and "T" Strap Ties

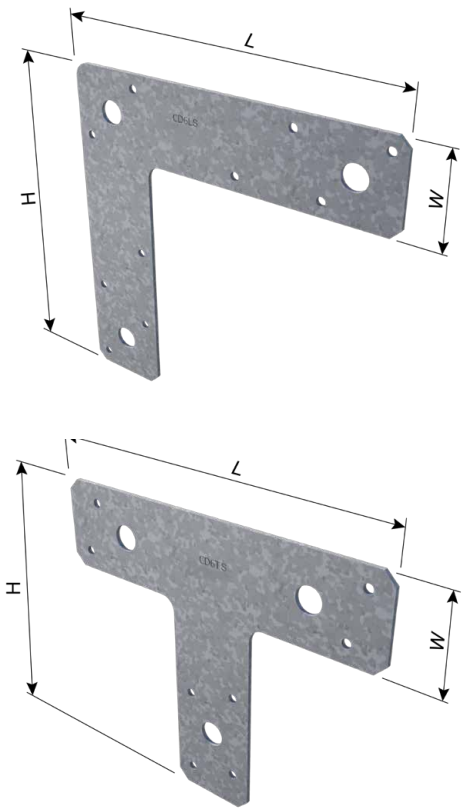
Economical braces are ideal for gates, patio covers, joining posts and columns to headers, beams and other applications where added reinforcement is needed. Braces may be bolted for heavy-duty applications.

MATERIAL SPECIFICATIONS

- Gauge: 14ga (68mil)
- Design Thickness: 0.0713 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5079



"L" and "T" Strap Ties (CD6LS, CD6TS)

Product Code	Gauge	Dimensions ⁴			Fastener Scheduling				LOAD ⁶ DIR.	Allowable Load (lbf)			
		H	L	W	Post		Beam			C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
					Qty.	Type ⁵	Qty.	Type ⁵					
CD6LS	14	6"	6"	1-1/2"	4	10d x 2-1/2	6	10d x 2-1/2	F ₁	240	240	240	240
									Uplift	425	425	425	425
CD6TS	14	5"	6"	1-1/2"	4	10d x 2-1/2	4	10d x 2-1/2	F ₁	280	280	280	280
									Uplift	370	370	370	370

Notes:

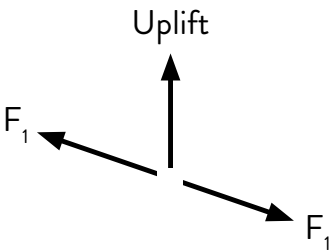
- For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N
- 1 The tabulated allowable loads are for a single clip.
 - 2 The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 in ESR-5079 for additional design and installation requirements.
 - 3 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5079 report.
 - 4 See images below for product dimension definitions.
 - 6 Refer to Section 3.2.3 of ESR-5079 for nail actual sizes and the required minimum physical properties.
 - 7 F₁ is the load parallel to the beam.



CD6LS Installation



CD6TS Installation



Medium Clip Angle

12 gauge angles used to attach back-to-back installation.
The staggered hold pattern minimizes wood splitting.

MATERIAL SPECIFICATIONS

Gauge: 12ga (97mil)

Design Thickness: 0.1017 inches

Coating: G185

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5079

Medium Clip Angle (CDCA)

Product Code	Gauge	Dimensions ³			Fastener Scheduling				LOAD ⁷ DIR.	Allowable Load (lbF)			
		L1	L2	W	Header		Joist			C _D = 1.0	C _D = 1.15	C _D = 1.25	C _D = 1.6
					Qty.	Type ⁶	Qty.	Type ⁶					
CDCA23G	12	2-7/64"	2-7/64"	3"	2	WS15	2	WS15	F ₁	425	425	425	425
CDCA24G	12	2-7/64"	2-7/64"	4"	3	WS15	3	WS15	F ₁	425	425	425	425
CDCA26G	12	2-7/64"	2-7/64"	6"	4	WS15	4	WS15	F ₁	615	616	615	615
CDCA28G	12	2-7/64"	2-7/64"	8"	5	WS15	5	WS15	F ₁	765	765	765	765
CDCA210G	12	2-7/64"	2-7/64"	10"	6	WS15	6	WS15	F ₁	795	795	795	795

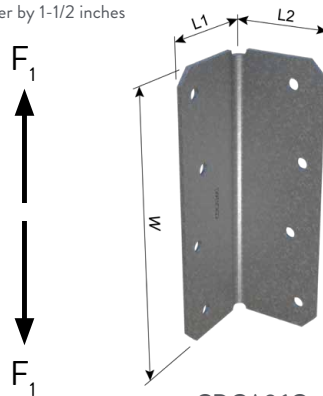
Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

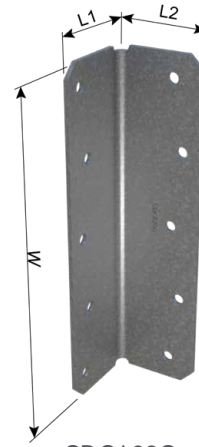
- The tabulated allowable loads are for a single angle. If a single angle is installed on each end of a supported member, the angles must be installed on opposite sides of the supported member, or wood blocking must be installed to prevent rotation.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 in ESR-0579 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- See images below for hanger dimension definitions of W, L1 and L2.
- WS15 Wood Screws (ESR-2761) are 1/4 inch diameter by 1-1/2 inches long and shipped with CDCA angles.
- F_1 is the vertical load.



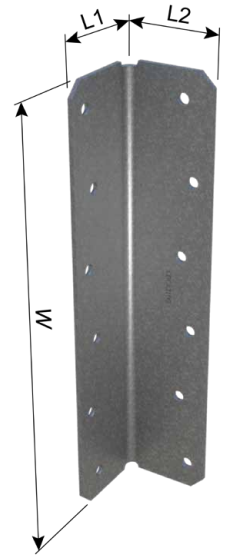
CDCA23G Installation



CDCA26G



CDCA28G



CDCA210G



CDCA24G Installation



CDCA26G Installation



CDCA28G Installation



CDCA210G Installation

Light and Medium Framing Angle

CDFA's provide fast, accurate bolting of two intersecting wood members (reinforcing intersection joints). Versatile angles that are nailed to reinforce intersecting wood members. Medium angles are designed for standardization and construction economies.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Gauge: 12ga (97mil)

Design Thickness: 0.1017 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5079
(CDFA24 and CDFA311 excluded from ESR-5079)



Light and Medium Framing Angle (CDFA)

Product Code	Connection		Gauge	Dimensions ³			Fasteners Scheduling			LOAD ⁶ DIR.	Allowable Load (lbF)			
	Qty.	Type ⁴		W	L1	L2	Type ⁵	Plate Qty.	Stud Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDFA21	1	S-to-P	18	1-3/8"	2-1/16"	1-37/64"	10d x 1-1/2	2	2	F ₁	200	200	200	200
										F ₂	110	110	110	110
CDFA23	1	S-to-P	18	2-3/4"	2-1/16"	1-37/64"	10d x 1-1/2	4	4	F ₁	395	395	395	395
										F ₂	210	210	210	210
CDFA33	1	C-to-B	12	1-1/2"	3-7/32"	3-1/16"	10d x 3.0	4	4	F ₁	580	580	580	580
										F ₂	255	255	255	255
CDFA44	1	C-to-B	12	1-3/16"	4-15/32"	4-15/32"	10d x 3.0	4	4	F ₁	500	500	500	500
										F ₂	260	260	260	260
CDFA66	1	C-to-B	12	1-1/5"	6"	6"	10d x 3.0	3	3	F ₁	445	445	445	445
										F ₂	160	160	160	160
CDFA88	1	C-to-B	12	2"	8-1/8"	8-1/8"	10d x 3.0	4	4	F ₁	490	490	490	490
										F ₂	180	180	180	180

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
- See images for hanger dimension definitions of W, L1 and L2.
- Connection type: S-to-P = Stud-to-Plate, C-to-B = Column-to-Beam.
- Refer to Section 3.2.3 of ESR-5079 for nail actual sizes and the required minimum physical properties. R_{HF} .
- F_1 is the load parallel to the plate and F_2 is the load perpendicular to the plate.

Light and Medium Framing Angle (CDFA)

Product Code	Connection		Gauge	Dimensions ³			Fasteners Scheduling			LOAD ⁶ DIR.	Allowable Load (lbF)			
	Qty.	Type ⁴		W	L1	L2	Type ⁵	Plate Qty.	Stud Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDFA21	1	S-to-P	18	1-3/8"	2-1/16"	1-37/64"	#9-15 x 1-1/2	2	2	F ₁	350	350	350	350
										F ₂	230	230	230	230
CDFA23	1	S-to-P	18	2-3/4"	2-1/16"	1-37/64"	#9-15 x 1-1/2	4	4	F ₁	545	545	545	545
										F ₂	420	420	420	420
CDFA33	1	C-to-B	12	1-1/2"	3-7/32"	3-1/16"	#9-15 x 3.0	4	4	F ₁	530	530	530	530
										F ₂	290	290	290	290
CDFA44	1	C-to-B	12	1-3/16"	4-15/32"	4-15/32"	#9-15 x 3.0	4	4	F ₁	420	420	420	420
										F ₂	260	260	260	260
CDFA66	1	C-to-B	12	1-1/5"	6"	6"	#9-15 x 3.0	3	3	F ₁	265	265	265	265
										F ₂	170	170	170	170
CDFA88	1	C-to-B	12	2"	8-1/8"	8-1/8"	#9-15 x 3.0	4	4	F ₁	345	345	345	345
										F ₂	250	250	250	250

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
- See images for hanger dimension definitions of W, L1 and L2.
- Connection type: S-to-P = Stud-to-Plate, C-to-B = Column-to-Beam.
- ITW Buildex Trugrip metal-to-wood screws. Refer to www.itwbuildex.com for the required physical properties.
- F_1 is the load parallel to the beam and F_2 is the load perpendicular to the beam.

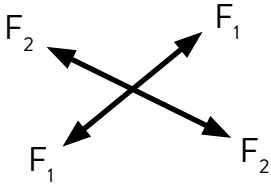
Light and Medium Framing Angle



CDFA33



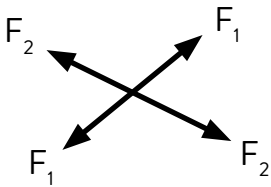
CDFA33 Installation



CDFA44



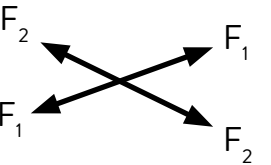
CDFA44 Installation



CDFA66



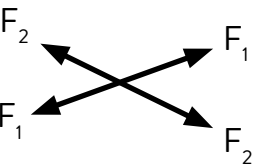
CDFA66 Installation



CDFA88



CDFA88 Installation

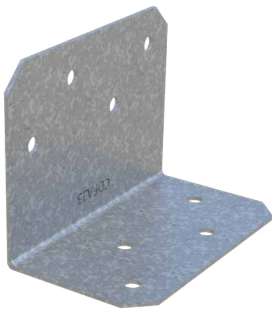
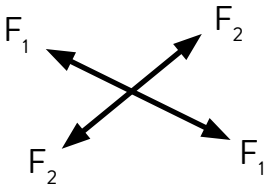




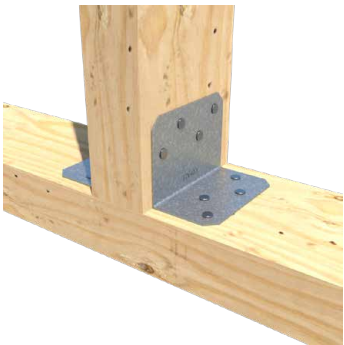
CDFA21



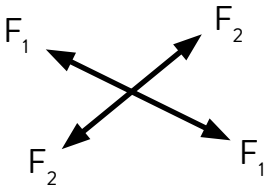
CDFA21 Installation



CDFA23



CDFA23 Installation



CDFA24



CDFA24 Installation



CDFA311



CDFA311 Installation

Framing Angles

CDFA1 angles provide the builder with the industry’s most versatile framing angle including:

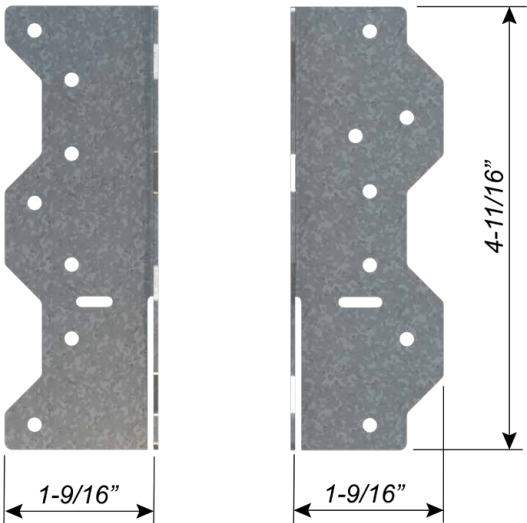
- Prongs - permit faster and easier installation.
- Bending slots - make accurate bends for all 2- and 3-way anchoring ties on the job.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)
Design Thickness: 0.0451 inches
Coating: G90 (Z275) hot-dipped galvanized coating
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

Width (W): 1-9/16"
Height (H): 4-11/16"
Depth (D): 1-9/16"



CODE REPORT

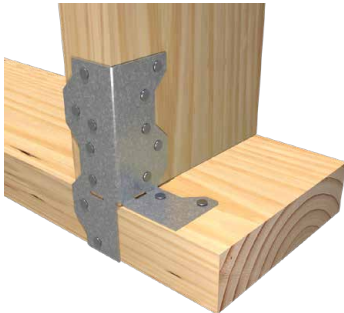
- ICC-ES ESR-5079

Framing Angles (CDFA1)													
Product Code	Gauge	Qty ⁵	Dimensions ¹			Fastener Scheduling			LOAD ⁶ DIR.	Allowable Load (lbf)			
			W	L1	L2	Type ⁴	Joist Qty.	Header Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDFA1	18	2	1-9/16"	4-11/16"	1-9/16"	10d x 1-1/2	14	14	F ₁	1495	1495	1495	1495
CDFA1	18	1	1-9/16"	4-11/16"	1-9/16"	10d x 1-1/2	7	7	F ₁	750	750	750	750

- Notes:**
For SI Units: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N
- ¹ The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
 - ² The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
 - ³ Refer to image for angle dimensions.
 - ⁴ Refer to Section 3.2.3 of ESR-5079 for nail sizes and the required minimum physical properties.
 - ⁵ Number of hangers required for the connections: "2" = one on each side of the joist. "1" = one on one side of the joist. If a single angle is installed on each end of a supported member, the angles must be installed on opposite sides of the supported member, or wood blocking must be installed to prevent rotation.
 - ⁶ F₁ is the vertical load.



CDFA1 Installation



CDFA1 Installation



CDFA1 Installation

CDFA2 angles provide the builder with the industry's most versatile framing angle including:

- Prongs - permit faster and easier installation.
- Bending slots - make accurate bends for all 2- and 3-way anchoring ties on the job.

CDFA2 angles have been designed especially for use on 2x4, 2x3 and 3x4 framing.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

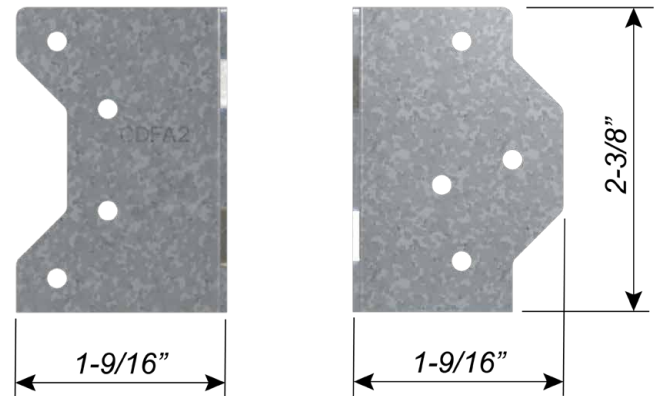
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

Width (W): 1-9/16"

Height (H): 2-3/8"

Depth (D): 1-9/16"



CDFA2 Installation

CODE REPORT

- ICC-ES ESR-5079

Framing Angles (CDFA2)

Product Code	Gauge	Qty ⁵	Dimensions ¹			Fastener Scheduling			LOAD ⁶ DIR.	Allowable Load (lbf)			
			W	L1	L2	Type ⁴	Joist Qty.	Header Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDFA2	18	2	1-9/16"	2-3/8"	1-9/16"	10d x 1-1/2	8	8	F ₁	800	800	800	800
CDFA2	18	1	1-9/16"	2-3/8"	1-9/16"	10d x 1-1/2	4	4	F ₁	400	400	400	400

Notes:

For SI Units: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
- Refer to image for angle dimensions.
- Refer to Section 3.2.3 of ESR-5079 for nail sizes and the required minimum physical properties.
- Number of hangers required for the connections: "2" = one on each side of the joist. "1" = one on one side of the joist. If a single angle is installed on each end of a supported member, the angles must be installed on opposite sides of the supported member, or wood blocking must be installed to prevent rotation.
- F_1 is the vertical load.



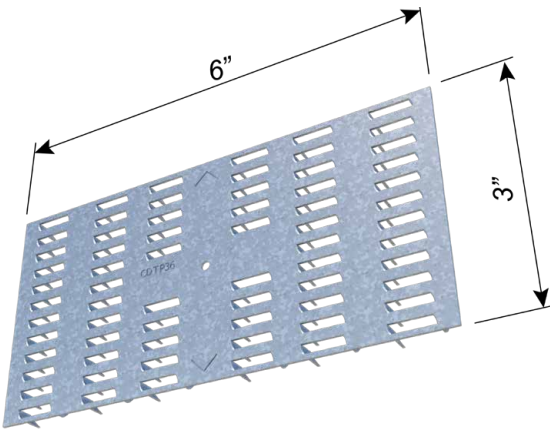
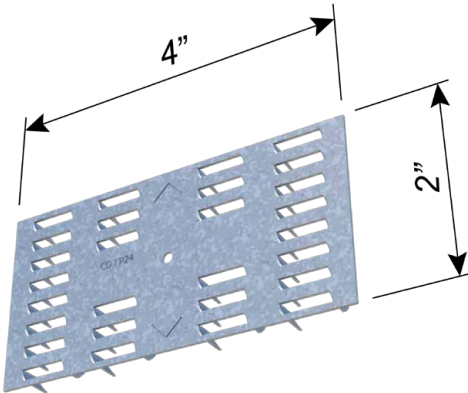
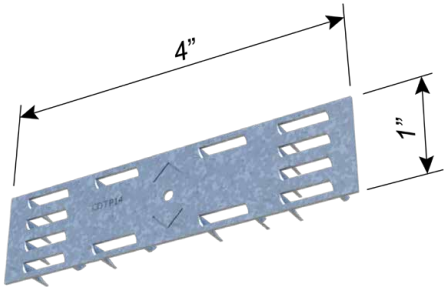
Mending Tie Plate

Versatile and easy-to-use mending plates for wood-to-wood connections. No nails or notching of wood required. For non-structural applications only.

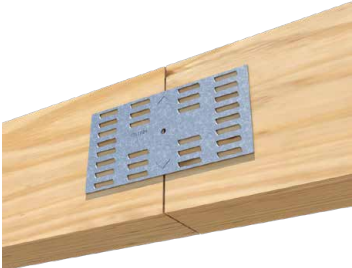
MATERIAL SPECIFICATIONS

- Gauge: 20ga (33mil)
- Design Thickness: 0.0346 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

Mending Tie Plate (CDTP)	
Product Code	Size
CDTP14	1" x 4"
CDTP24	2" x 4"
CDTP36	3" x 6"



CDTP14 Installation



CDTP24 Installation



CDTP36 Installation

Nail Stop Plates

Designed to prevent nails from piercing and damaging mechanical, electrical and plumbing pipes and lines. To protect supply lines, the nail stopper is installed over each point where utilities pass through framing members.

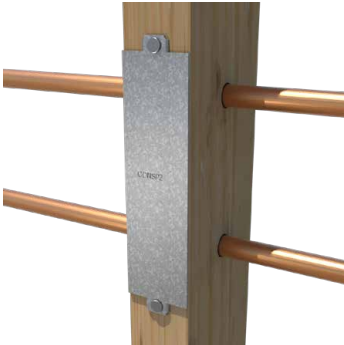
MATERIAL SPECIFICATIONS

- Gauge: 16ga (54mil)
- Design Thickness: 0.0566 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

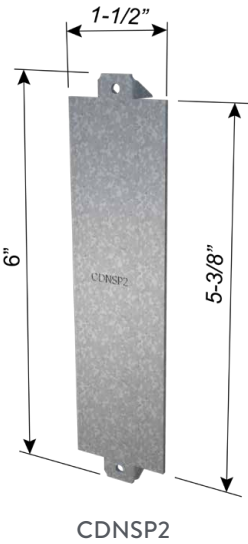
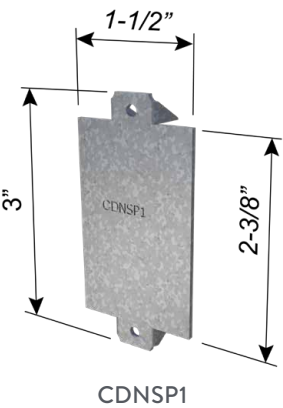
Nail Stop Plates (CDNSP)	
Product Code	Size
CDNSP1	1-1/2" x 3"
CDNSP2	1-1/2" x 6"



CDNSP1 Installation



CDNSP2 Installation



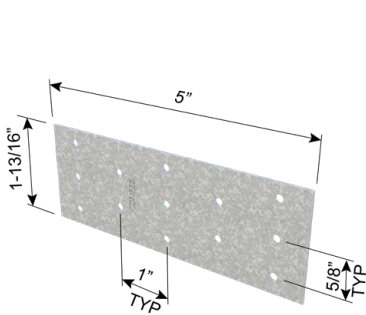
Nail Plates

Nail Plates are used for attaching wooden members together in a non-structural connection.

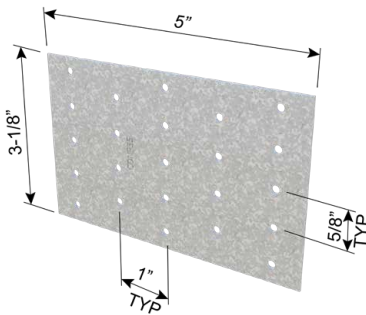
MATERIAL SPECIFICATIONS

- Gauge: 20ga (33mil)
- Design Thickness: 0.0346 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

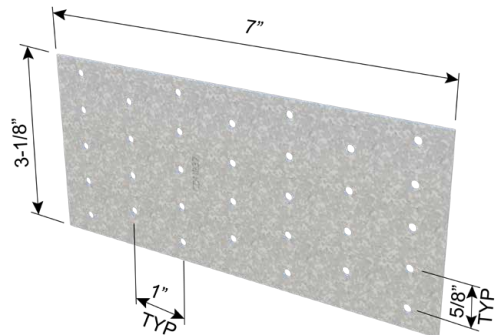
Nail Plates (CDNP)	
Product Code	Size
CDNP15	2" x 5"
CDNP35	3" x 5"
CDNP37	3" x 7"
CDNP45	4" x 5"
CDNP47	4" x 7"
CDNP57	5" x 7"



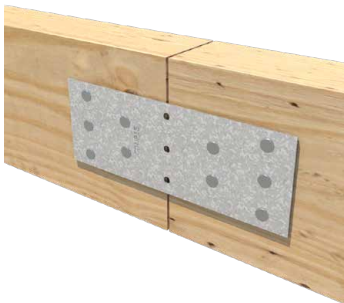
CDNP15



CDNP35



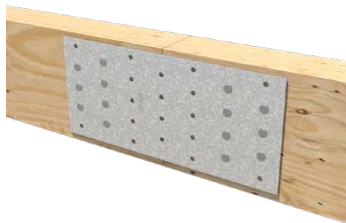
CDNP37



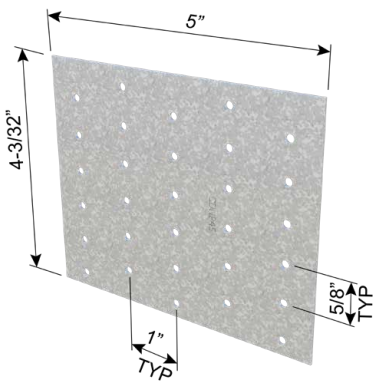
CDNP15 Installation



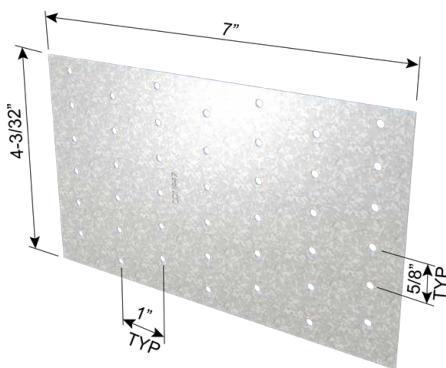
CDNP35 Installation



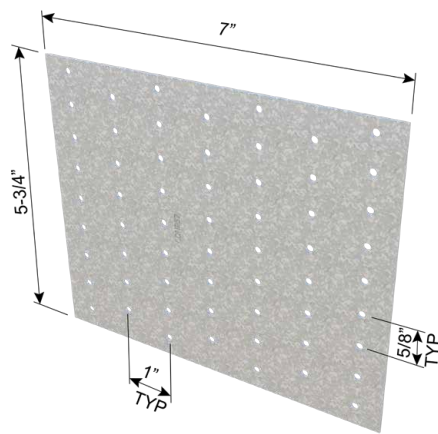
CDNP37 Installation



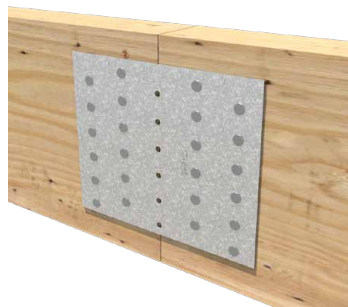
CDNP45



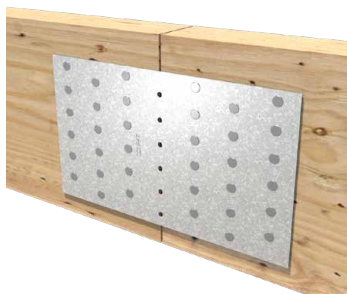
CDNP47



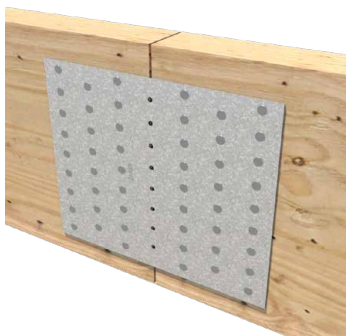
CDNP57



CDNP45 Installation



CDNP47 Installation



CDNP57 Installation

Tie Plate Anchor Series

The CDTPA Anchor Series is manufactured to resist uplift of the top plate(s) of solid sawn or structural composite lumber wall members from solid sawn or structural composite lumber wall stud members.

CDTPA4 and CDTPA6 anchors resist upward load on nominal 2x4 and 2x6 respectively, solid sawn or structural composite lumber walls.

MATERIAL SPECIFICATIONS

Gauge: 20ga (33mil)

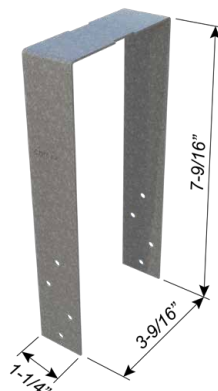
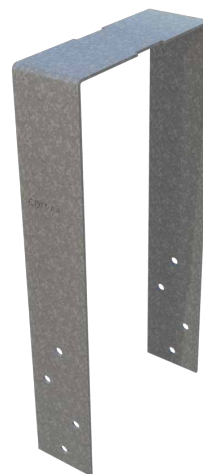
Design Thickness: 0.0346 inches

Coating: G90 (Z275) hot-dipped galvanized coating

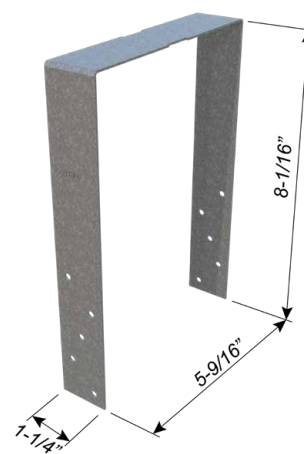
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- IAPMO ER-0176



CDTPA4



CDTPA6



CDTPA4 Installation



CDTPA6 Installation

Tie Plate Anchor Series (CDTPA)

Product Code	Gauge	Overall Dimensions (in)			Fasteners (Quantity on Each Side of Stud)		Allowable Upward Loads (lbs)											
		Width (W)	Height (H)	Depth (D)	Size	Quantity	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
							Load Duration Factor				Load Duration Factor				Load Duration Factor			
							1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDTPA4	20	3-9/16	7-9/16	1-1/4	0.131" x 2.5"	2	160	185	200	235	190	215	235	235	205	235	235	235
					0.148" x 3.0"	2	155	175	190	245	225	260	275	275	245	275	275	275
					0.131" x 2.5"	4	325	330	330	330	330	330	330	330	330	330	330	330
					0.148" x 3.0"	4	305	350	385	410	410	410	410	410	410	410	410	410
					0.131" x 2.5"	6	485	555	605	775	565	650	705	900	610	700	765	905
					0.148" x 3.0"	6	460	530	575	735	680	785	850	965	740	850	925	965
					0.131" x 2.5"	8	645	740	805	895	750	865	895	895	815	895	895	895
					0.148" x 3.0"	8	615	705	765	960	910	1045	1135	1170	985	1135	1170	1170
CDTPA6	20	5-9/16	8-1/16	1-1/4	0.131" x 2.5"	2	160	185	200	240	190	215	235	240	205	235	240	240
					0.148" x 3.0"	2	155	175	190	245	225	260	285	345	245	285	310	345
					0.131" x 2.5"	4	325	370	405	515	375	430	470	525	405	470	510	525
					0.148" x 3.0"	4	305	350	385	490	455	520	545	545	495	545	545	545
					0.131" x 2.5"	6	485	555	605	750	565	650	705	750	610	700	750	750
					0.148" x 3.0"	6	460	530	575	735	680	785	805	805	740	805	805	805
					0.131" x 2.5"	8	645	740	805	940	750	865	940	940	815	935	940	940
					0.148" x 3.0"	8	615	705	765	980	910	1010	1010	1010	985	1010	1010	1010
					0.131" x 2.5"	10	805	925	985	985	940	985	985	985	985	985	985	985
					0.148" x 3.0"	10	765	880	955	1130	1130	1130	1130	1130	1130	1130	1130	1130

Notes:

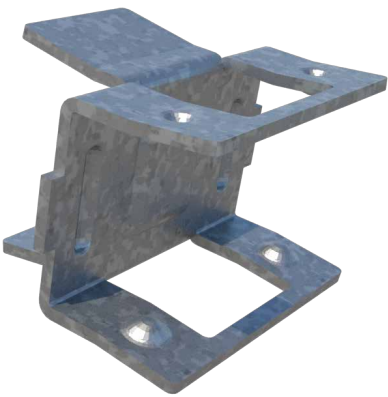
- 1 Allowable Load Capacities are based on the Tabulated Species and Load Duration Factor.

Steel Plywood /Sheathing Clip

Fast and easy - just slip over the sheathing edge.
Eliminates unreliable wood blocking. For installation,
use the same clip as plywood thickness.

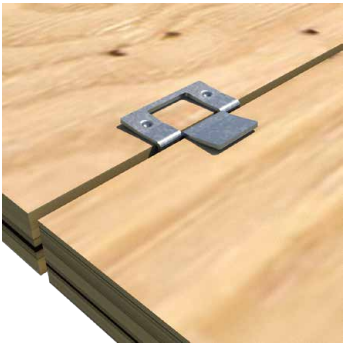
MATERIAL SPECIFICATIONS

- Gauge: 20ga (33mil)
- Design Thickness: 0.0346 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)



Steel Plywood /Sheathing Clip (CDPC)

Product Code	Material
CDPC38	3/8"
CDPC716	7/16"
CDPC12	1/2"
CDPC58	5/8"
CDPC34	3/4"
CDPC1532	15/32"



Steel Plywood/Sheathing Clips
Installation

Twist Straps

CDLST Series

Manufactured to resist tension load when attached to solid sawn or structural composite lumber metal plate connected trusses, framing members and wall members.

CDLST Twist Straps are 1-1/4" wide and available in lengths from 9-5/8" to 24-5/8". Three holes are located at 3/4" on center, in a diagonal pattern, at each end of the strap. Remaining holes are punched at 1-1/2" on center, in a diagonal pattern. At mid length of each strap is a 3" long section with no holes and a 90 degree bend extending across the width of the strap for 4-5/8".

MATERIAL SPECIFICATIONS

Gauge: 20ga (33mil)

Design Thickness: 0.0346 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 33 Type H (ST33H), 33ksi (227.5 MPa)

CODE REPORT

- IAPMO ER-0176



CDLST Series Installation

Twist Straps (CDLST Series)

Product Code	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
	W	L	Size	Quantity	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
					Load Duration Factor				Load Duration Factor				Load Duration Factor			
					1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDLS9T	1-1/4	9-5/8	0.148" x 1.5"	3	295	335	365	440	340	390	425	440	370	425	440	440
CDLS12T	1-1/4	12-5/8	0.148" x 1.5"	4	390	450	490	540	455	520	540	540	495	540	540	540
CDLS15T	1-1/4	15-5/8	0.148" x 1.5"	5	490	560	610	680	570	655	680	680	615	680	680	680
CDLS18T	1-1/4	18-5/8	0.148" x 1.5"	6	585	675	730	745	680	745	745	745	740	745	745	745
CDLS21T	1-1/4	21-5/8	0.148" x 1.5"	7	685	745	745	745	745	745	745	745	745	745	745	745
CDLS24T	1-1/4	24-5/8	0.148" x 1.5"	8	745	745	745	745	745	745	745	745	745	745	745	745

Notes:

1 Allowable Load Capacities based on the Tabulated Species and Load Duration Factor.

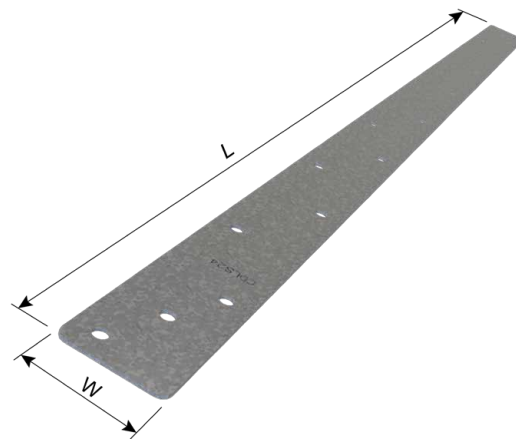
2 Products shown in table are made of No. 20 gauge steel.

Light Straps

CDLS Series

Manufactured to resist tension load when attached to solid sawn or structural composite lumber metal plate connected trusses, framing members and wall members.

CDLS Straps are 1-1/4" wide and available in lengths from 9-5/8" to 24-5/8". Three holes are located at 3/4" on center, in a diagonal pattern, at each end of the strap. Remaining holes are punched at 1-1/2" on center, in a diagonal pattern. At mid length of each strap is a 3" long section with no holes.



MATERIAL SPECIFICATIONS

Gauge: 20ga (33mil)

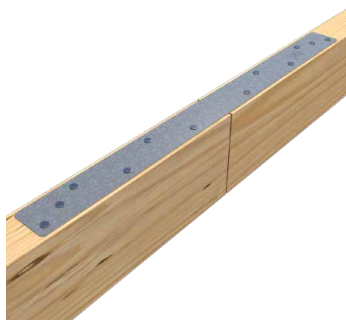
Design Thickness: 0.0346 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 33 Type H (ST33H), 33ksi (227.5 MPa)

CODE REPORT

- IAPMO ER-0176



CDLS Series Installation



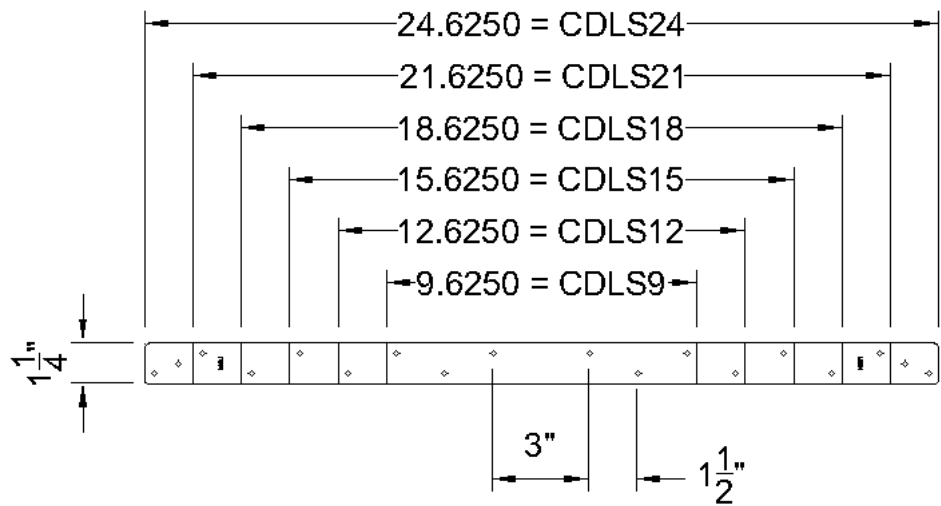
CDLS Series Installation



CDLS Series Installation

Light Straps (CDLS Series)																	
Product Code	Gauge	Strap Dimensions (in)		Fasteners Type (Each End)		Allowable Upward Loads (lbs)											
						Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
		W	L	Size	Qty	Load Duration Factor				Load Duration Factor				Load Duration Factor			
						1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDLS9	20	1-1/4	9-5/8	0.131" x 2.5"	4	325	370	405	515	375	430	470	600	405	470	510	650
				0.148" x 1.5"		390	450	490	625	455	520	570	725	495	565	615	745
				0.148" x 3.0"		390	450	490	625	455	520	570	725	495	565	615	745
				0.162" x 3.5"		465	535	585	745	545	625	680	745	590	680	735	745
CDLS12	20	1-1/4	12-5/8	0.131" x 2.5"	5	405	465	505	645	470	540	585	745	510	585	635	745
				0.148" x 1.5"		490	560	610	745	570	655	710	745	615	710	745	745
				0.148" x 3.0"		490	560	610	745	570	655	710	745	615	710	745	745
				0.162" x 3.5"		585	670	730	745	680	745	745	745	735	745	745	745
CDLS15	20	1-1/4	15-5/8	0.131" x 2.5"	6	485	555	605	745	565	650	705	745	610	700	745	745
				0.148" x 1.5"		585	675	730	745	680	745	745	745	740	745	745	745
				0.148" x 3.0"		585	675	730	745	680	745	745	745	740	745	745	745
				0.162" x 3.5"		700	745	745	745	745	745	745	745	745	745	745	745
CDLS18	20	1-1/4	18-5/8	0.131" x 2.5"	7	565	650	705	745	655	745	745	745	710	745	745	745
				0.148" x 1.5"		685	745	745	745	745	745	745	745	745	745	745	745
				0.148" x 3.0"		685	745	745	745	745	745	745	745	745	745	745	745
				0.162" x 3.5"		745	745	745	745	745	745	745	745	745	745	745	745
CDLS21	20	1-1/4	21-5/8	0.131" x 2.5"	8	645	740	745	745	745	745	745	745	745	745	745	745
				0.148" x 1.5"		745	745	745	745	745	745	745	745	745	745	745	745
				0.148" x 3.0"		745	745	745	745	745	745	745	745	745	745	745	745
				0.162" x 3.5"		745	745	745	745	745	745	745	745	745	745	745	745
CDLS24	20	1-1/4	24-5/8	0.131" x 2.5"	9	725	745	745	745	745	745	745	745	745	745	745	745
				0.148" x 1.5"		745	745	745	745	745	745	745	745	745	745	745	745
				0.148" x 3.0"		745	745	745	745	745	745	745	745	745	745	745	745
				0.162" x 3.5"		745	745	745	745	745	745	745	745	745	745	745	745

Notes:
1 Allowable Load Capacities are based on the Tabulated Species and Load Duration Factor.

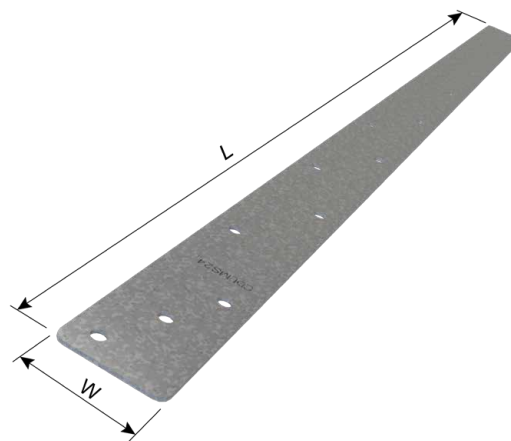


Medium Straps

CDLMS Series

Manufactured to resist tension load when attached to solid sawn or structural composite lumber metal plate connected trusses, framing members and wall members.

CDLMS Straps are 1-1/4" wide and available in lengths from 9-5/8" to 36-5/8". Three holes are located at 3/4" on center, in a diagonal pattern, at each end of the strap. Remaining holes are punched at 1-1/2" on center, in a diagonal pattern. At mid length of each strap is a 3" long section with no holes.



MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

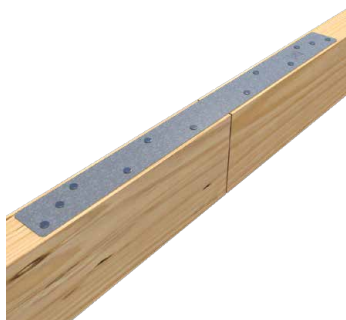
Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- IAPMO ER-0176



CDLMS Series Installation



CDLMS Series Installation



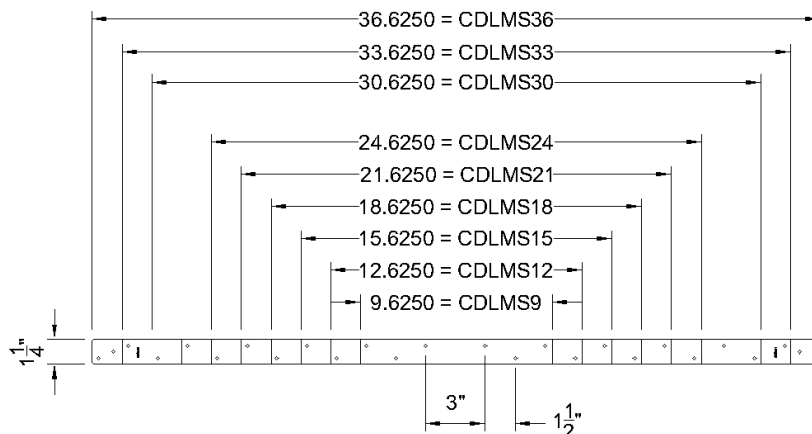
CDLMS Series Installation

Medium Straps (CDLMS Series)

Product Code	Gauge	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
		W	L	Size	Qty	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
						Load Duration Factor				Load Duration Factor				Load Duration Factor			
						1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDLMS9	18	1-1/4	9-5/8	0.131" x 1.5"	4	335	385	420	535	390	450	485	625	420	485	525	675
				0.148" x 1.5"		405	465	505	645	470	540	585	750	510	585	635	815
				0.162" x 2.5"		480	550	600	765	560	640	700	895	605	695	755	970
CDLMS12	18	1-1/4	12-5/8	0.131" x 1.5"	5	420	480	525	670	485	560	610	780	525	605	660	845
				0.148" x 1.5"		505	580	630	805	585	675	730	935	635	730	795	1015
				0.162" x 2.5"		600	690	750	960	700	805	870	1115	755	870	945	1210
CDLMS15	18	1-1/4	15-5/8	0.131" x 1.5"	6	500	575	625	805	585	670	730	935	635	730	790	1015
				0.148" x 1.5"		605	695	755	965	705	810	880	1125	760	875	955	1220
				0.162" x 2.5"		720	825	900	1150	835	965	1045	1340	910	1045	1135	1455
CDLMS18	18	1-1/4	18-5/8	0.131" x 1.5"	7	585	675	730	935	680	785	850	1090	740	850	925	1180
				0.148" x 1.5"		705	810	880	1125	820	945	1025	1310	890	1025	1110	1425
				0.162" x 2.5"		840	965	1050	1340	975	1125	1220	1565	1060	1220	1325	1570
CDLMS21	18	1-1/4	21-5/8	0.131" x 1.5"	8	670	770	835	1070	780	895	975	1245	845	970	1055	1350
				0.148" x 1.5"		805	925	1005	1290	935	1080	1170	1500	1015	1170	1270	1570
				0.162" x 2.5"		960	1100	1200	1535	1115	1285	1395	1570	1210	1395	1515	1570
CDLMS24	18	1-1/4	24-5/8	0.131" x 1.5"	9	755	865	940	1205	875	1005	1095	1400	950	1090	1185	1520
				0.148" x 1.5"		905	1040	1130	1450	1055	1215	1320	1570	1145	1315	1430	1570
				0.162" x 2.5"		1080	1240	1350	1570	1255	1445	1570	1570	1365	1565	1570	1570
CDLMS30	18	1-1/4	30-5/8	0.131" x 1.5"	11	920	1060	1150	1470	1070	1230	1340	1570	1160	1335	1450	1570
				0.148" x 1.5"		1105	1275	1385	1570	1290	1480	1570	1570	1400	1570	1570	1570
				0.162" x 2.5"		1320	1515	1570	1570	1535	1570	1570	1570	1570	1570	1570	1570
CDLMS33	18	1-1/4	33-5/8	0.131" x 1.5"	12	1005	1155	1255	1570	1170	1345	1460	1570	1265	1455	1570	1570
				0.148" x 1.5"		1210	1390	1510	1570	1405	1570	1570	1570	1525	1570	1570	1570
				0.162" x 2.5"		1440	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570
CDLMS36	18	1-1/4	36-5/8	0.131" x 1.5"	13	1085	1250	1360	1570	1265	1455	1570	1570	1370	1570	1570	1570
				0.148" x 1.5"		1310	1505	1570	1570	1525	1570	1570	1570	1570	1570	1570	1570
				0.162" x 2.5"		1555	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570

Notes:

- 1 Allowable Load Capacities based on Species and Load Duration Factor as permitted by applicable building code.
- 2 All nail holes must be filled to obtain tabulated loads.
- 3 Specified fasteners and allowable loads may be used with longer straps with fasteners only applied to strap ends.

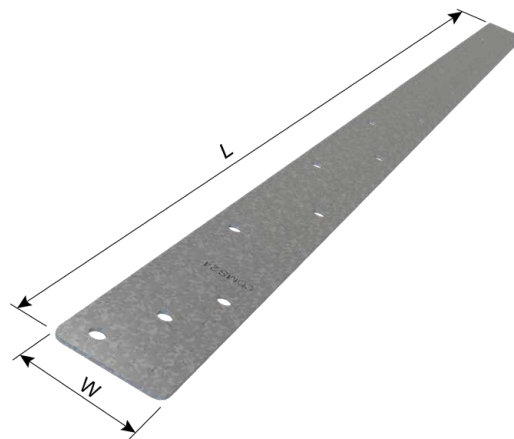


Straps

CDMS Series

Manufactured to resist tension load when attached to solid sawn or structural composite lumber metal plate connected trusses, framing members and wall members.

CDMS Straps are 1-1/4" wide and available in lengths from 21-5/8" to 39-5/8". Three holes are located at 3/4" on center, in a diagonal pattern, at each end of the strap. Remaining holes are punched at 1-1/2" on center, in a diagonal pattern. At mid length of each strap is a 3" long section with no holes.

**MATERIAL SPECIFICATIONS**

Gauge: 16ga (54mil)

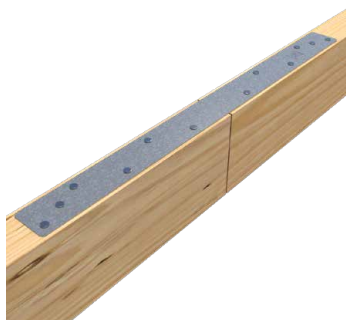
Design Thickness: 0.0566 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- IAPMO ER-0176



CDMS Series Installation



CDMS Series Installation



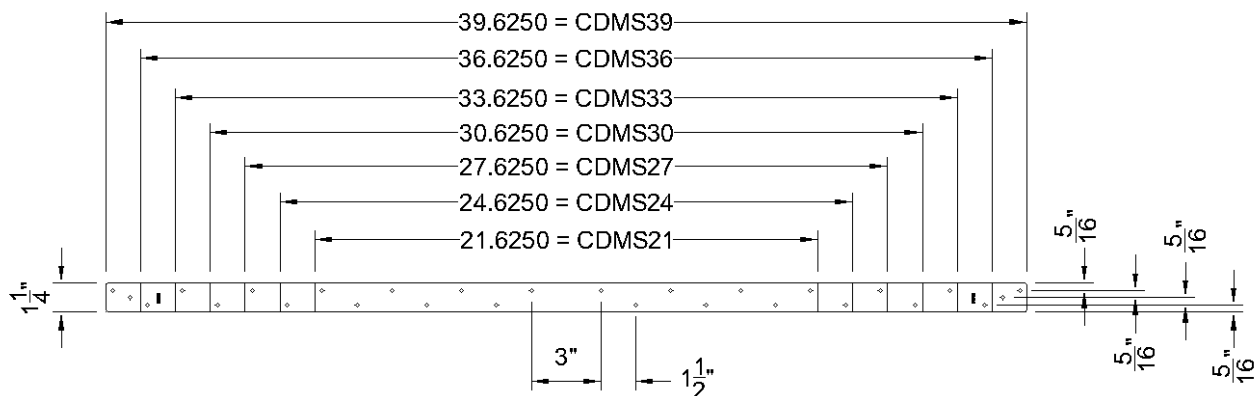
CDMS Series Installation

Straps (CDMS Series)

Product Code	Gauge	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
		W	L	Size	Qty	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
						Load Duration Factor				Load Duration Factor				Load Duration Factor			
						1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDMS21	16	1-1/4	21-5/8	0.131" x 2.5"	8	660	755	820	1050	765	880	955	1220	825	950	1035	1325
				0.148" x 1.5"		825	950	1030	1320	960	1100	1200	1535	1040	1195	1300	1660
				0.148" x 3.0"		825	950	1030	1320	960	1100	1200	1535	1040	1195	1300	1660
				0.162" x 3.5"		975	1125	1220	1565	1135	1305	1420	1765	1230	1415	1540	1765
CDMS24	16	1-1/4	24-5/8	0.131" x 2.5"	9	740	850	925	1185	860	990	1075	1375	930	1070	1165	1490
				0.148" x 1.5"		925	1065	1160	1485	1080	1240	1350	1725	1170	1345	1460	1765
				0.148" x 3.0"		925	1065	1160	1485	1080	1240	1350	1725	1170	1345	1460	1765
				0.162" x 3.5"		1100	1265	1375	1760	1280	1470	1600	1765	1385	1595	1730	1765
CDMS27	16	1-1/4	27-5/8	0.131" x 2.5"	10	820	945	1030	1315	955	1100	1195	1530	1035	1190	1290	1655
				0.148" x 1.5"		1030	1185	1290	1650	1200	1375	1495	1765	1300	1490	1620	1765
				0.148" x 3.0"		1030	1185	1290	1650	1200	1375	1495	1765	1300	1490	1620	1765
				0.162" x 3.5"		1220	1405	1525	1765	1420	1635	1765	1765	1540	1765	1765	1765
CDMS30	16	1-1/4	30-5/8	0.131" x 2.5"	11	905	1040	1130	1445	1050	1210	1315	1680	1135	1305	1420	1765
				0.148" x 1.5"		1135	1305	1415	1765	1320	1515	1645	1765	1425	1640	1765	1765
				0.148" x 3.0"		1135	1305	1415	1765	1320	1515	1645	1765	1425	1640	1765	1765
				0.162" x 3.5"		1345	1545	1680	1765	1565	1765	1765	1765	1695	1765	1765	1765
CDMS33	16	1-1/4	33-5/8	0.131" x 2.5"	12	985	1135	1235	1580	1145	1320	1430	1765	1240	1425	1550	1765
				0.148" x 1.5"		1235	1420	1545	1765	1435	1655	1765	1765	1555	1765	1765	1765
				0.148" x 3.0"		1235	1420	1545	1765	1435	1655	1765	1765	1555	1765	1765	1765
				0.162" x 3.5"		1465	1685	1765	1765	1705	1765	1765	1765	1765	1765	1765	1765
CDMS36	16	1-1/4	36-5/8	0.131" x 2.5"	13	1070	1230	1335	1710	1240	1425	1550	1765	1345	1545	1680	1765
				0.148" x 1.5"		1340	1540	1675	1765	1555	1765	1765	1765	1685	1765	1765	1765
				0.148" x 3.0"		1340	1540	1675	1765	1555	1765	1765	1765	1685	1765	1765	1765
				0.162" x 3.5"		1590	1765	1765	1765	1765	1765	1765	1765	1765	1765	1765	1765
CDMS39	16	1-1/4	39-5/8	0.131" x 2.5"	14	1150	1325	1440	1765	1335	1535	1670	1765	1445	1665	1765	1765
				0.148" x 1.5"		1445	1660	1765	1765	1675	1765	1765	1765	1765	1765	1765	1765
				0.148" x 3.0"		1445	1660	1765	1765	1675	1765	1765	1765	1765	1765	1765	1765
				0.162" x 3.5"		1710	1765	1765	1765	1765	1765	1765	1765	1765	1765	1765	1765

Notes:

1 Allowable Load Capacities based on the Tabulated Species and Load Duration Factor.



Rolled Straps

Manufactured to resist tension load when attached to solid sawn or structural composite lumber metal plate connected trusses, framing members and wall members. ClarkDietrich Rolled Strapping (CDRS) are 1-1/4" wide with holes punched at 1-1/4" on center, in a staggered pattern. Strapping is manufactured in continuous rolls of 250 feet for 20 gauge, 200 feet for 18 gauge and 150 feet for 16 gauge.

MATERIAL SPECIFICATIONS

CDRS150
Gauge: 16ga (54mil)
Design Thickness: 0.0566 inches
Coating: G90 (Z275) hot-dipped galvanized coating
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CDRS200
Gauge: 18ga (43mil)
Design Thickness: 0.0451 inches
Coating: G90 (Z275) hot-dipped galvanized coating
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CDRS250
Gauge: 20ga (33mil)
Design Thickness: 0.0346 inches
Coating: G90 (Z275) hot-dipped galvanized coating
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- IAPMO ER-0176

Rolled Straps (CDRS)		
Product Code	Width (in)	Length (ft)
CDRS150	1-1/4	150
CDRS200	1-1/4	200
CDRS250	1-1/4	250



Rolled Strap Installation

Rolled Straps (CDRS150)

Product Code	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
	Width	Min. Length	Size	Quantity	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
					Load Duration Factor				Load Duration Factor				Load Duration Factor			
					1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDRS150	1-1/4	6-1/4	0.131" x 1.5"	2	215	250	270	345	200	230	250	320	170	200	215	275
			0.148" x 1.5"		260	300	325	415	240	275	300	385	205	235	260	330
			0.162" x 2.5"		310	355	385	495	285	325	355	455	245	280	305	390
	1-1/4	8-3/4	0.131" x 1.5"	3	325	375	405	520	300	345	375	480	260	295	320	415
			0.148" x 1.5"		390	450	485	625	360	415	450	575	310	355	385	495
			0.162" x 2.5"		460	530	575	740	425	490	535	680	365	420	460	585
	1-1/4	11-1/4	0.131" x 1.5"	4	430	495	540	690	400	460	500	640	345	395	430	550
			0.148" x 1.5"		520	595	650	830	480	550	600	765	410	475	515	660
			0.162" x 2.5"		615	710	770	985	570	655	710	910	490	560	610	780
	1-1/4	13-3/4	0.131" x 1.5"	5	540	620	675	865	500	575	625	800	430	495	535	690
			0.148" x 1.5"		650	745	810	1040	600	690	750	960	515	595	645	825
			0.162" x 2.5"		770	885	960	1230	710	815	890	1135	610	700	765	975
	1-1/4	16-1/4	0.131" x 1.5"	6	650	745	810	1040	600	690	750	960	515	595	645	825
			0.148" x 1.5"		780	895	975	1245	720	825	900	1150	620	710	775	990
			0.162" x 2.5"		925	1060	1155	1480	850	980	1065	1365	735	845	915	1175
	1-1/4	18-3/4	0.131" x 1.5"	7	755	870	945	1210	700	805	875	1120	600	690	750	965
			0.148" x 1.5"		910	1045	1135	1455	840	965	1050	1340	720	830	900	1155
			0.162" x 2.5"		1080	1240	1345	1725	995	1145	1245	1590	855	985	1070	1370
	1-1/4	21-1/4	0.131" x 1.5"	8	865	995	1080	1385	800	920	1000	1280	690	790	860	1100
			0.148" x 1.5"		1040	1195	1300	1660	960	1100	1200	1535	825	950	1030	1320
			0.162" x 2.5"		1230	1415	1540	1970	1135	1305	1420	1820	975	1125	1220	1565
	1-1/4	23-3/4	0.131" x 1.5"	9	975	1120	1215	1555	900	1035	1125	1440	775	890	965	1240
			0.148" x 1.5"		1170	1345	1460	1870	1080	1240	1350	1725	925	1065	1160	1485
			0.162" x 2.5"		1385	1595	1730	1970	1280	1470	1600	1970	1100	1265	1375	1760
	1-1/4	26-1/4	0.131" x 1.5"	10	1080	1245	1350	1730	1000	1150	1250	1595	860	990	1075	1375
			0.148" x 1.5"		1300	1490	1620	1970	1200	1375	1495	1915	1030	1185	1290	1650
			0.162" x 2.5"		1540	1770	1925	1970	1420	1635	1775	1970	1220	1405	1525	1955
	1-1/4	28-3/4	0.131" x 1.5"	11	1190	1370	1485	1905	1100	1265	1375	1755	945	1085	1180	1515
			0.148" x 1.5"		1425	1640	1785	1970	1320	1515	1645	1970	1135	1305	1415	1815
			0.162" x 2.5"		1695	1950	1970	1970	1565	1795	1955	1970	1345	1545	1680	1970
	1-1/4	31-1/4	0.131" x 1.5"	12	1295	1490	1620	1970	1200	1380	1500	1915	1030	1185	1290	1650
			0.148" x 1.5"		1555	1790	1945	1970	1435	1655	1795	1970	1235	1420	1545	1970
			0.162" x 2.5"		1850	1970	1970	1970	1705	1960	1970	1970	1465	1685	1830	1970
	1-1/4	33-3/4	0.131" x 1.5"	13	1405	1615	1755	1970	1300	1495	1620	1970	1115	1285	1395	1790
			0.148" x 1.5"		1685	1940	1970	1970	1555	1790	1945	1970	1340	1540	1675	1970
			0.162" x 2.5"		1970	1970	1970	1970	1845	1970	1970	1970	1590	1825	1970	1970
	1-1/4	36-1/4	0.131" x 1.5"	14	1515	1740	1890	1970	1400	1605	1745	1970	1205	1385	1505	1925
			0.148" x 1.5"		1815	1970	1970	1970	1675	1930	1970	1970	1445	1660	1805	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1710	1965	1970	1970
	1-1/4	38-3/4	0.131" x 1.5"	15	1620	1865	1970	1970	1500	1720	1870	1970	1290	1485	1610	1970
			0.148" x 1.5"		1945	1970	1970	1970	1795	1970	1970	1970	1545	1780	1930	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1830	1970	1970	1970
	1-1/4	41-1/4	0.131" x 1.5"	16	1730	1970	1970	1970	1595	1835	1970	1970	1375	1580	1720	1970
			0.148" x 1.5"		1970	1970	1970	1970	1915	1970	1970	1970	1650	1895	1970	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1955	1970	1970	1970
	1-1/4	43-3/4	0.131" x 1.5"	17	1840	1970	1970	1970	1695	1950	1970	1970	1460	1680	1825	1970
			0.148" x 1.5"		1970	1970	1970	1970	1970	1970	1970	1970	1750	1970	1970	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970
	1-1/4	46-1/4	0.131" x 1.5"	18	1945	1970	1970	1970	1795	1970	1970	1970	1545	1780	1935	1970
			0.148" x 1.5"		1970	1970	1970	1970	1970	1970	1970	1970	1855	1970	1970	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970
	1-1/4	48-3/4	0.131" x 1.5"	19	1970	1970	1970	1970	1895	1970	1970	1970	1635	1880	1970	1970
			0.148" x 1.5"		1970	1970	1970	1970	1970	1970	1970	1970	1960	1970	1970	1970
			0.162" x 2.5"		1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970

Notes:

- 1 Allowable Load Capacities are based on the Tabulated Species and Load Duration Factor.
- 2 Products shown in table are made of No. 16 gauge steel.
- 3 Overall length of rolled strap is 150 feet.

Rolled Straps

Rolled Straps (CDRS200)

Product Code	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
	Width	Min. Length	Size	Quantity	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
					Load Duration Factor				Load Duration Factor				Load Duration Factor			
					1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDRS200	1-1/4	6-1/4	0.131" x 1.5"	2	210	245	265	340	195	225	245	310	165	190	210	270
			0.148" x 1.5"		255	290	320	405	235	270	295	375	200	230	250	320
			0.162" x 2.5"		305	350	380	485	280	320	350	445	240	275	300	385
	1-1/4	8-3/4	0.131" x 1.5"	3	315	365	395	505	290	335	365	465	250	290	315	400
			0.148" x 1.5"		380	440	475	610	350	405	440	560	300	345	375	485
			0.162" x 2.5"		455	520	570	725	420	480	525	670	360	415	450	575
	1-1/4	11-1/4	0.131" x 1.5"	4	420	485	525	675	390	450	485	625	335	385	420	535
			0.148" x 1.5"		510	585	635	815	470	540	585	750	405	465	505	645
			0.162" x 2.5"		605	695	755	970	560	640	700	895	480	550	600	765
	1-1/4	13-3/4	0.131" x 1.5"	5	525	605	660	845	485	560	610	780	420	480	525	670
			0.148" x 1.5"		635	730	795	1015	585	675	730	935	505	580	630	805
			0.162" x 2.5"		755	870	945	1210	700	805	870	1115	600	690	750	960
	1-1/4	16-1/4	0.131" x 1.5"	6	635	730	790	1015	585	670	730	935	500	575	625	805
			0.148" x 1.5"		760	875	955	1220	705	810	880	1125	605	695	755	965
			0.162" x 2.5"		910	1045	1135	1455	835	965	1045	1340	720	825	900	1150
	1-1/4	18-3/4	0.131" x 1.5"	7	740	850	925	1180	680	785	850	1090	585	675	730	935
			0.148" x 1.5"		890	1025	1110	1425	820	945	1025	1310	705	810	880	1125
			0.162" x 2.5"		1060	1220	1325	1570	975	1125	1220	1565	840	965	1050	1340
	1-1/4	21-1/4	0.131" x 1.5"	8	845	970	1055	1350	780	895	975	1245	670	770	835	1070
			0.148" x 1.5"		1015	1170	1270	1570	935	1080	1170	1500	805	925	1005	1290
			0.162" x 2.5"		1210	1395	1515	1570	1115	1285	1395	1570	960	1100	1200	1535
	1-1/4	23-3/4	0.131" x 1.5"	9	950	1090	1185	1520	875	1005	1095	1400	755	865	940	1205
			0.148" x 1.5"		1145	1315	1430	1570	1055	1215	1320	1570	905	1040	1130	1450
			0.162" x 2.5"		1365	1565	1570	1570	1255	1445	1570	1570	1080	1240	1350	1570
	1-1/4	26-1/4	0.131" x 1.5"	10	1055	1215	1320	1570	975	1120	1215	1555	835	960	1045	1340
			0.148" x 1.5"		1270	1460	1570	1570	1170	1350	1465	1570	1005	1155	1260	1570
			0.162" x 2.5"		1515	1570	1570	1570	1395	1570	1570	1570	1200	1380	1495	1570
	1-1/4	28-3/4	0.131" x 1.5"	11	1160	1335	1450	1570	1070	1230	1340	1570	920	1060	1150	1470
			0.148" x 1.5"		1400	1570	1570	1570	1290	1480	1570	1570	1105	1275	1385	1570
			0.162" x 2.5"		1570	1570	1570	1570	1535	1570	1570	1570	1320	1515	1570	1570
	1-1/4	31-1/4	0.131" x 1.5"	12	1265	1455	1570	1570	1170	1345	1460	1570	1005	1155	1255	1570
			0.148" x 1.5"		1525	1570	1570	1570	1405	1570	1570	1570	1210	1390	1510	1570
			0.162" x 2.5"		1570	1570	1570	1570	1570	1570	1570	1570	1440	1570	1570	1570
	1-1/4	33-3/4	0.131" x 1.5"	13	1370	1570	1570	1570	1265	1455	1570	1570	1085	1250	1360	1570
			0.148" x 1.5"		1570	1570	1570	1570	1525	1570	1570	1570	1310	1505	1570	1570
			0.162" x 2.5"		1570	1570	1570	1570	1570	1570	1570	1570	1555	1570	1570	1570
	1-1/4	36-1/4	0.131" x 1.5"	14	1475	1570	1570	1570	1360	1565	1570	1570	1170	1345	1465	1570
			0.148" x 1.5"		1570	1570	1570	1570	1570	1570	1570	1570	1410	1570	1570	1570
			0.162" x 2.5"		1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570
	1-1/4	38-3/4	0.131" x 1.5"	15	1570	1570	1570	1570	1460	1570	1570	1570	1255	1440	1570	1570
			0.148" x 1.5"		1570	1570	1570	1570	1570	1570	1570	1570	1510	1570	1570	1570
			0.162" x 2.5"		1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570
	1-1/4	41-1/4	0.131" x 1.5"	16	1570	1570	1570	1570	1555	1570	1570	1570	1340	1540	1570	1570
			0.148" x 1.5"		1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570
			0.162" x 2.5"		1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570

Notes:

- 1 Allowable Load Capacities are based on the Tabulated Species and Load Duration Factor.
- 2 Products shown in table are made of No. 18 gauge steel.
- 3 Overall length of rolled strap is 200 feet.

Rolled Straps (CDRS250)

Product Code	Strap Dimensions (in)		Fasteners (Quantity at Each End)		Allowable Upward Loads (lbs)											
	Width	Min. Length	Size	Quantity	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
					Load Duration Factor				Load Duration Factor				Load Duration Factor			
					1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDRS250	1-1/4	6-1/4	0.131" x 1.5"	2	205	235	255	325	190	215	235	300	160	185	200	260
			0.148" x 1.5"		245	285	310	395	225	260	285	365	195	225	245	310
			0.162" x 2.5"		295	340	370	470	270	315	340	435	235	270	290	375
	1-1/4	8-3/4	0.131" x 1.5"	3	305	350	380	490	280	325	350	450	240	280	300	385
			0.148" x 1.5"		370	425	460	590	340	390	425	545	295	335	365	470
			0.162" x 2.5"		440	510	555	710	410	470	510	655	350	400	435	560
	1-1/4	11-1/4	0.131" x 1.5"	4	405	470	510	650	375	430	470	600	325	370	405	515
			0.148" x 1.5"		495	565	615	790	455	520	570	725	390	450	490	625
			0.162" x 2.5"		590	680	735	935	545	625	680	835	465	535	585	745
	1-1/4	13-3/4	0.131" x 1.5"	5	510	585	635	815	470	540	585	750	405	465	505	645
			0.148" x 1.5"		615	710	770	935	570	655	710	835	490	560	610	780
			0.162" x 2.5"		735	835	835	935	680	780	835	835	585	670	730	835
	1-1/4	16-1/4	0.131" x 1.5"	6	610	700	765	935	565	650	705	835	485	555	605	775
			0.148" x 1.5"		740	835	835	835	680	785	835	835	585	675	730	835
			0.162" x 2.5"		835	835	835	835	815	835	835	835	700	805	835	835
	1-1/4	18-3/4	0.131" x 1.5"	7	710	820	835	835	655	755	820	835	565	650	705	835
			0.148" x 1.5"		835	835	835	835	795	835	835	835	685	785	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	815	835	835	835
	1-1/4	21-1/4	0.131" x 1.5"	8	815	835	835	835	750	835	835	835	645	740	805	835
			0.148" x 1.5"		835	835	835	835	835	835	835	835	780	835	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	835	835	835	835
	1-1/4	23-3/4	0.131" x 1.5"	9	835	835	835	835	835	835	835	835	725	835	835	835
			0.148" x 1.5"		835	835	835	835	835	835	835	835	835	835	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	835	835	835	835
	1-1/4	26-1/4	0.131" x 1.5"	10	835	835	835	835	835	835	835	835	805	835	835	835
			0.148" x 1.5"		835	835	835	835	835	835	835	835	835	835	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	835	835	835	835
	1-1/4	28-3/4	0.131" x 1.5"	11	835	835	835	835	835	835	835	835	835	835	835	835
			0.148" x 1.5"		835	835	835	835	835	835	835	835	835	835	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	835	835	835	835
	1-1/4	31-1/4	0.131" x 1.5"	12	835	835	835	835	835	835	835	835	835	835	835	835
			0.148" x 1.5"		835	835	835	835	835	835	835	835	835	835	835	835
			0.162" x 2.5"		835	835	835	835	835	835	835	835	835	835	835	835

Notes:

- 1 Allowable Load Capacities are based on the Tabulated Species and Load Duration Factor.
- 2 Products shown in table are made of No. 20 gauge steel.
- 3 Overall length of rolled strap is 250 feet.

PAGE 33 FENCE BRACKETS (CDFB)

Fence Brackets

Provides a secure fit for the connection of 2 x 4 fence boards to post. Easier to plan and build, holes are sized to #6 wood screws or 8d nails.

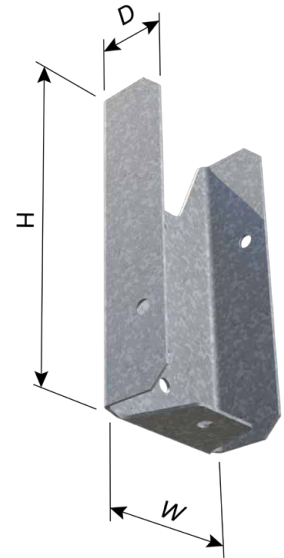
MATERIAL SPECIFICATIONS

Gauge: 20ga (33mil)

Design Thickness: 0.0346 inches

Coating: G185 (Z550) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)



Fence Brackets (CDFB24G)

Product Code	Gauge	D	W	H
CDFB24G	20	3/4"	1-5/8"	3-3/8"



CDFB24G Installation

Hangers

PAGE 35	LIGHT TRUSS END/HIP JACK HANGER (CDLEHJ)
PAGE 36	PURLIN HANGERS (CDPHD)
PAGE 37	HEAVY DUTY JOIST AND TRUSS HANGERS (CDAGUS)
PAGES 38-40	LIGHT DUTY FACE-MOUNT HANGERS (CDLTH)
PAGES 41-45	DOUBLE SHEAR FACE-MOUNT HANGERS (CDLDS)
PAGES 46-49	DOUBLE SHEAR FACE-MOUNT HANGERS (CDMDS)
PAGES 50-53	ADJUSTABLE STRAP HANGERS (CDSTH/CDSTHI)

Light Truss End/Hip Jack Hanger

The CDLEHJ accommodates an end jack and a right or left hip jack. Made from high strength steel, this hanger offers a high load capacity while requiring only half as many fasteners in the header. It is designed to be installed with the same length fastener in all members (10d x 1-1/2") unlike competitive products which require 3" fasteners in the header to achieve the stated loads.

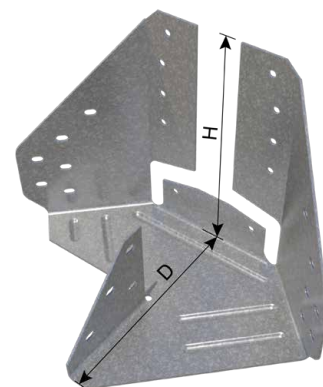
MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)



CODE REPORT

- ICC-ES ESR-5062



CDLEHJ Installation

Light Truss End/Hip Jack Hanger (CDLEHJ)

Product Code	Min. Supporting Member	Min. Supported End and Hip Jack Height (in)	Overall Dimensions (in)			Common Nail Type Fasteners			
			Width (W)	Height (H)	Depth (D)	Size	End Jack Qty.	Hip Jack Qty.	Header Qty.
CDLEHJ	2 x 6	3.50	7.76	5.25	4.875	10d x 1.5	4	6	10

Species	Allowable Downward Loads (lbs)									Allowable Uplift Loads (lbs)		
	End Jack			Hip Jack			Total			End Jack	Hip Jack	Total
	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60	C _D = 1.60	C _D = 1.60
Spruce Pine-Fir (0.42 Specific Gravity)	335	335	335	895	895	895	1005	1155	1230	95	360	455
Douglas Fir-Larch (0.50 Specific Gravity)	335	335	335	895	895	895	1170	1230	1230	95	360	455
Southern Pine (0.55 Specific Gravity)	335	335	335	895	895	895	1230	1230	1230	95	360	455

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 See image for hanger dimensions.

2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

3 The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Section 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.

4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, respectively for the wood species noted in the table.

5 The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.

Purlin Hangers

Designed specifically for agricultural and post-frame use with superior performance and easy installation. All of the hangers offer multiple installation methods, giving users maximum flexibility. Double-shear and straight nailing options available. Placement tooth or placement nail options for simplified installation.

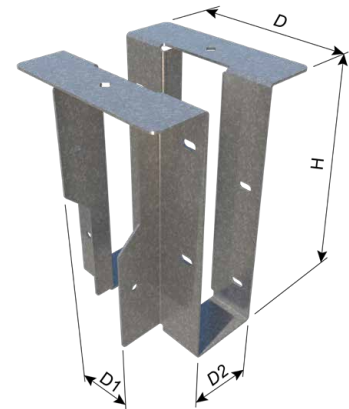
MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)



PRODUCT DIMENSIONS

D1: 1-3/4"

D2: 1-9/16"

H: 1-9/16"

D: 1-9/16"

INSTALLATION

- Use all specified fasteners indicated in the table.
- 3" nails must be driven at a 45 degree angle through the purlin into the header. Combine with top and face nails to achieve the table loads.
- 1-1/2" nails must be driven into the purlin at 90 degrees. Combine with top and face nails to achieve the table loads.



CDPHD Installation

Purlin Hangers (CDPHD)

ASTM D7147 > 2015 Codes

Product Code	Overall Dimensions (in)		Load Type	Nailing Schedule	Common Nail Type Fasteners			Allowable Loads (lbs)											
	Header Top Flange				Size	Joist Qty.	Header Qty.	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
	TFW	TFB						1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDPHD26	1	1-9/16 (3-1/4) [1-13/16]	Downward	Standard	2-10dx1.5"	2-10dx1.5"	4-10dx1.5"	515	515	515	515	680	680	680	680	780	780	780	780
				Enhanced	2-10dx1.5"	2-10dx1.5"	4-10d	825	825	825	825	1055	1055	1055	1055	1195	1195	1195	1195
			Uplift	Standard	2-10dx1.5"	2-10dx1.5"	4-10dx1.5"	200	230	230	230	235	265	265	265	255	290	290	290
				Enhanced	2-10dx1.5"	2-10dx1.5"	4-10d	470	470	470	470	545	545	545	545	585	585	585	585

ASTM D1761 < 2015 Codes

Product Code	Overall Dimensions (in)		Load Type	Nailing Schedule	Common Nail Type Fasteners			Allowable Loads (lbs)											
	Header Top Flange				Size	Joist Qty.	Header Qty.	Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
	TFW	TFB						1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDPHD26	1	1-9/16 (3-1/4) [1-13/16]	Downward	Standard	2-10dx1.5"	2-10dx1.5"	4-10dx1.5"	545	545	545	545	715	715	715	715	810	810	810	810
				Enhanced	2-10dx1.5"	2-10dx1.5"	4-10d	890	890	890	890	1145	1145	1145	1145	1220	1305	1305	1305
			Uplift	Standard	2-10dx1.5"	2-10dx1.5"	4-10dx1.5"	200	235	255	270	235	270	295	315	255	295	320	335
				Enhanced	2-10dx1.5"	2-10dx1.5"	4-10d	490	565	570	570	565	650	660	660	610	705	710	710

Notes:

1 Nails: 10dx1.5" = 0.148"x1.5" nails driven at 90 degree and 10d = 0.148"x3.0" nails driven at 45 degree (see Double shear nailing view).

2 Tabulated allowable load capacities shall be selected based on duration of load as permitted by the applicable building code.

Heavy Duty Joist and Truss Hangers

CDAGUS universal face-mount hanger is designed for wood plate trusses and heavily loaded members. 4" seat dimension provides greatest bearing area of any hanger available. Super capacity design loads are the highest of any universal face-mounted hanger. Larger header flange and joist seat make this hanger very easy to install with common nails.

MATERIAL SPECIFICATIONS

Gauge: 12ga (97mil)

Design Thickness: 0.1017 inches

Coating: G90 (Z275) hot-dipped galvanized coating

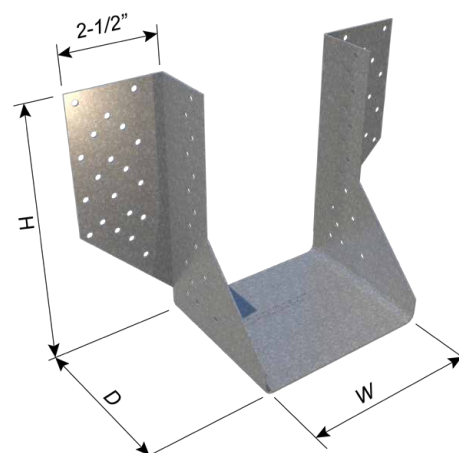
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

JOIST AND TRUSS SIZES: 2xs, double 2xs, triple 2xs

CODE REPORT

- ICC-ES ESR-5062



CDAGUS28-2T Installation



CDAGUS28-3T Installation

Heavy Duty Joist and Truss Hangers (CDAGUS)

Spruce Pine-Fir (0.42 Specific Gravity)

Product Code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5} (lbs)			
		Width, W	Height, H	Depth, D	Joist		Header		Download		Uplift	
					Size	Qty.	Size	Qty.	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAGUS26-2T	12	3-7/16	3-7/16	4-1/4	10d Comm	24	16d Comm	30	3845	3845	3845	2165
CDAGUS28-2T	12	3-7/16	6-15/16	4-1/4	10d Comm	30	16d Comm	30	5250	5660	5660	2530
CDAGUS28-3T	12	5	6-15/16	4-1/4	10d Comm	30	16d Comm	40	5250	5660	5660	2530

Douglas Fir-Larch (0.50 Specific Gravity)

Product Code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5} (lbs)			
		Width, W	Height, H	Depth, D	Joist		Header		Download		Uplift	
					Size	Qty.	Size	Qty.	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAGUS26-2T	12	3-7/16	3-7/16	4-1/4	10d Comm	24	16d Comm	30	4255	4255	4255	2165
CDAGUS28-2T	12	3-7/16	6-15/16	4-1/4	10d Comm	30	16d Comm	30	5660	5660	5660	2530
CDAGUS28-3T	12	5	6-15/16	4-1/4	10d Comm	30	16d Comm	40	5660	5660	5660	2530

Southern Pine (0.55 Specific Gravity)

Product Code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5} (lbs)			
		Width, W	Height, H	Depth, D	Joist		Header		Download		Uplift	
					Size	Qty.	Size	Qty.	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAGUS26-2T	12	3-7/16	3-7/16	4-1/4	10d Comm	24	16d Comm	30	4680	4680	4680	2285
CDAGUS28-2T	12	3-7/16	6-15/16	4-1/4	10d Comm	30	16d Comm	30	5765	5765	5765	2730
CDAGUS28-3T	12	5	6-15/16	4-1/4	10d Comm	30	16d Comm	40	5765	5765	5765	2730

Notes (con't):

- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- CDAGUS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Notes:

For SI: 1 inch = 25.4 mm,
1 pound (lb) = 4.45 N

¹ See images for hanger dimension definitions of W, H, and D.

² Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

³ The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Section 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.

Light Duty Face-Mount Hangers

CDLTH's combine greater strength with maximum economy. Prongs secure CDLTH hangers to header for fast, easy nailing. Economical price and ease-of-use make these an ideal hanger for the do-it-yourself market.

MATERIAL SPECIFICATIONS

Gauge: 20ga (33mil)

Design Thickness: 0.0346 inches

Coating: G90 (Z275) hot-dipped galvanized coating

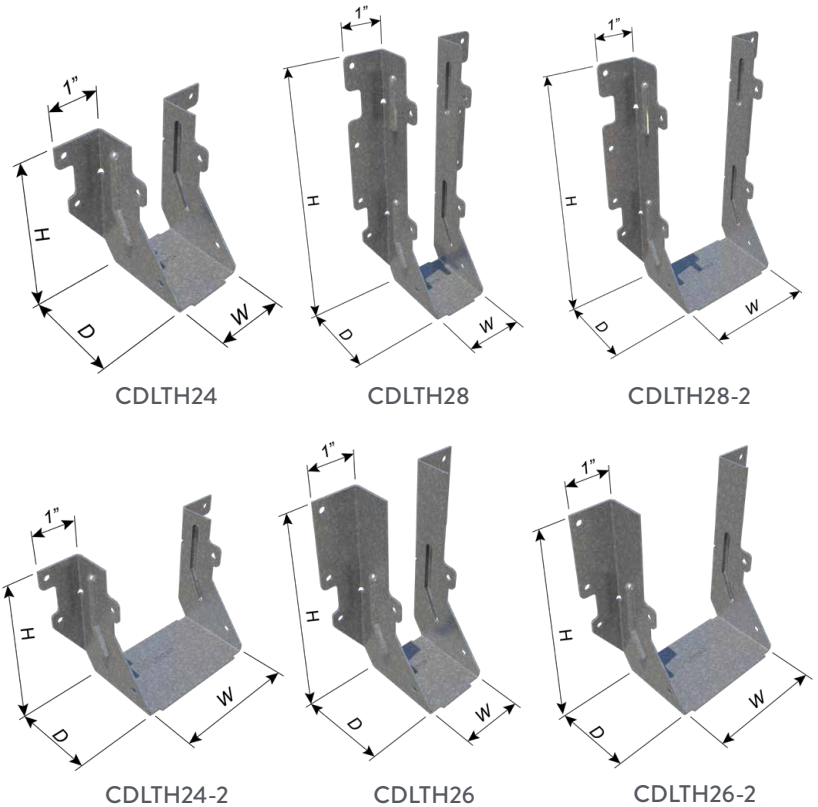
Yield Strength: Structural Grade 50 Type H (ST50H),
50ksi (340 MPa)

PRODUCT DIMENSIONS

JOIST SIZES: Singles and Doubles, 2x4, 2x6, 2x8

CODE REPORT

- ICC-ES ESR-5062
(Excluding CDLTH24-2 & CDLTH26-2)



Light Duty Face-Mount Hangers (CDLTH)

Spruce Pine-Fir (0.42 Specific Gravity)

Product Code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimension (in)			Common Nail Type Fasteners				Allowable Downward Loads (lbs)			
				Clear Width	Overall Height	Overall Depth	Joist Size	Joist Qty.	Header Size	Header Qty.		Load Duration Factor, C _D		
										@ 90 deg	@45 deg	1.00	1.15	1.25
CDLTH24	Standard	1.50	20	1-9/16	3-3/16	2-1/4	10d x 1.5"	2	10d x 1.5"	4	0	285	285	285
	Enhanced Joist							4		0	285	285	285	
	Enhanced Header							2		4	2	415	415	415
	Enhanced Joist and Header							4		4	2	415	415	415
CDLTH26	Standard	1.50	20	1-9/16	4-3/4	2-1/4	10d x 1.5"	2	10d x 1.5"	6	0	465	465	465
	Enhanced Joist							4		6	0	465	465	465
	Enhanced Header							2		6	2	670	670	670
	Enhanced Joist and Header							4		6	2	670	670	670
CDLTH28	Standard	1.50	20	1-9/16	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	795	910	930
	Enhanced Joist							6		8	0	795	910	930
	Enhanced Header							2		8	4	830	830	830
	Enhanced Joist and Header							6		8	4	830	830	830
CDLTH28-2	Standard	3.00	20	3-1/8	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	795	910	990
	Enhanced Joist							6		8	0	795	910	990
	Enhanced Header							2		8	4	995	995	995
	Enhanced Joist and Header							6		8	4	995	995	995

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 See images for hanger dimensions.

2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

3 The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.

4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, respectively for the wood species noted in the table.

Light Duty Face-Mount Hangers (CDLTH)

Douglas Fir-Larch (0.50 Specific Gravity)														
Product Code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimension (in)			Common Nail Type Fasteners					Allowable Downward Loads (lbs)		
				Clear Width	Overall Height	Overall Depth	Joist Size	Joist Qty.	Header Size	Header Qty.		Load Duration Factor, C _D		
										@ 90 deg	@ 45 deg	1.00	1.15	1.25
CDLTH24	Standard	1.50	20	1-9/16	3-3/16	2-1/4	10d x 1.5"	2	10d x 1.5"	4	0	460	490	490
	Enhanced Joist							4		4	0	460	490	490
	Enhanced Header							2		4	2	605	605	605
	Enhanced Joist and Header							4		4	2	605	605	605
CDLTH26	Standard	1.50	20	1-9/16	4-3/4	2-1/4	10d x 1.5"	2	10d x 1.5"	6	0	695	760	760
	Enhanced Joist							4		6	0	695	760	760
	Enhanced Header							2		6	2	900	900	900
	Enhanced Joist and Header							4		6	2	900	900	900
CDLTH28	Standard	1.50	20	1-9/16	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	925	985	985
	Enhanced Joist							6		8	0	925	985	985
	Enhanced Header							2		8	4	1035	1035	1035
	Enhanced Joist and Header							6		8	4	1035	1035	1035
CDLTH28-2	Standard	3.00	20	3-1/8	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	925	985	985
	Enhanced Joist							6		8	0	925	985	985
	Enhanced Header							2		8	4	985	985	985
	Enhanced Joist and Header							6		8	4	985	985	985

Southern Pine (0.55 Specific Gravity)														
Product Code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimension (in)			Common Nail Type Fasteners					Allowable Downward Loads (lbs)		
				Clear Width	Overall Height	Overall Depth	Joist Size	Joist Qty.	Header Size	Header Qty.		Load Duration Factor, C _D		
										@ 90 deg	@ 45 deg	1.00	1.15	1.25
CDLTH24	Standard	1.50	20	1-9/16	3-3/16	2-1/4	10d x 1.5"	2	10d x 1.5"	4	0	460	490	490
	Enhanced Joist							4		0	460	490	490	
	Enhanced Header							2		4	2	605	605	605
	Enhanced Joist and Header							4		4	2	605	605	605
CDLTH26	Standard	1.50	20	1-9/16	4-3/4	2-1/4	10d x 1.5"	2	10d x 1.5"	6	0	695	760	760
	Enhanced Joist							4		6	0	695	760	760
	Enhanced Header							2		6	2	900	900	900
	Enhanced Joist and Header							4		6	2	900	900	900
CDLTH28	Standard	1.50	20	1-9/16	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	925	985	985
	Enhanced Joist							6		8	0	925	985	985
	Enhanced Header							2		8	4	1035	1035	1035
	Enhanced Joist and Header							6		8	4	1035	1035	1035
CDLTH28-2	Standard	3.00	20	3-1/8	6-11/16	2-1/4	10d x 1.5"	2	10d x 1.5"	8	0	925	985	985
	Enhanced Joist							6		8	0	925	985	985
	Enhanced Header							2		8	4	985	985	985
	Enhanced Joist and Header							6		8	4	985	985	985

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- 1 See images for hanger dimensions.
- 2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- 3 The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- 4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, respectively for the wood species noted in the table.

Light Duty Face-Mount Hangers



CDLTH 24
Unenhanced Fastening



CDLTH 24
Enhanced Joist Fastening



CDLTH 24
Enhanced Header Fastening



CDLTH 24
Enhanced Joist & Header Fastening



CDLTH 26
Unenhanced Fastening



CDLTH 26
Enhanced Joist Fastening



CDLTH 26
Enhanced Header Fastening



CDLTH 26
Enhanced Joist & Header Fastening



CDLTH 28
Unenhanced Fastening



CDLTH 28
Enhanced Joist Fastening



CDLTH 28
Enhanced Header Fastening



CDLTH 28
Enhanced Joist & Header Fastening



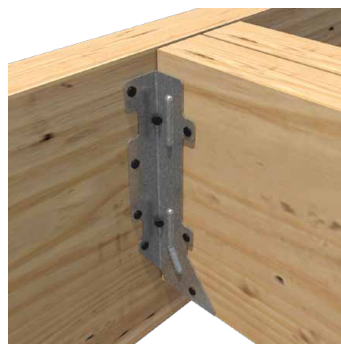
CDLTH 28-2
Unenhanced Fastening



CDLTH 28-2
Enhanced Joist Fastening



CDLTH 28-2
Enhanced Header Fastening



CDLTH 28-2
Enhanced Joist & Header Fastening

Double Shear Face-Mount Hangers

CDLDS Series

Double shear nailing distributes loads at two points across the joist nails, reducing the number of nails and enabling quicker installation. CDLDS utilizes a placement tooth to ease installation. Use the enhanced nailing schedule for greater load carrying capacities.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

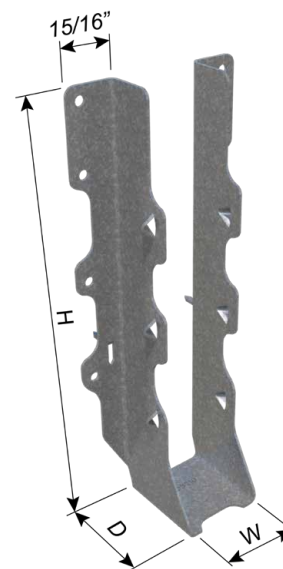
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5062

INSTALLATION

- Use all specified fasteners.
- Joist nails must be driven at an angle in the joist or truss to achieve the published loads.
- Not designed for welded applications



CDLDS210



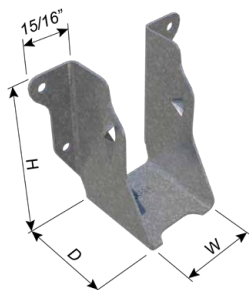
CDLDS210 Installation



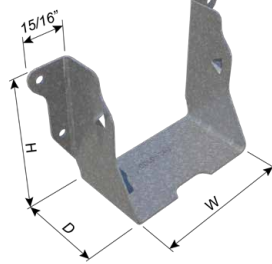
CDLDS210-2 Installation



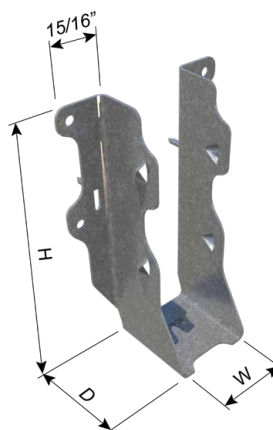
CDLDS210-3 Installation



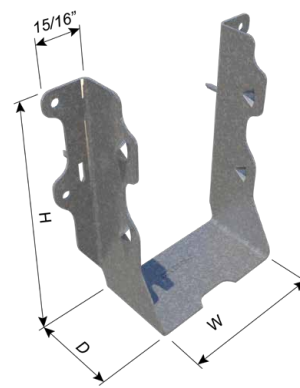
CDLDS24



CDLDS24-2



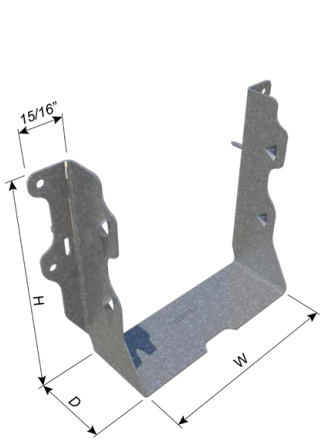
CDLDS26



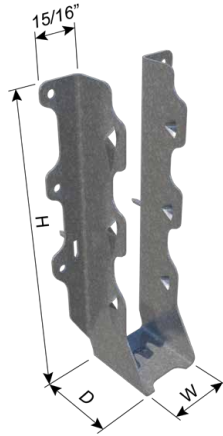
CDLDS26-2

Double Shear Face-Mount Hangers

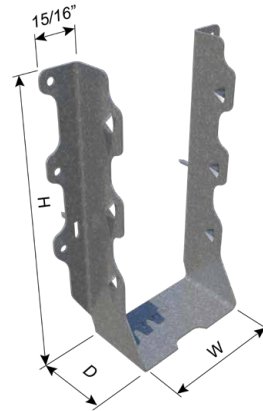
CDLDS Series



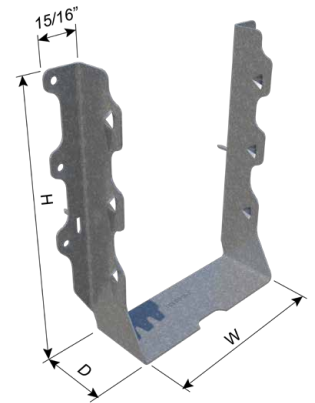
CDLDS26-3



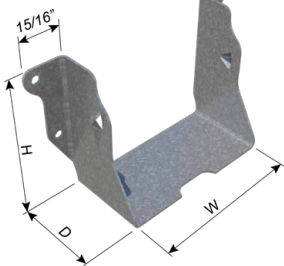
CDLDS28



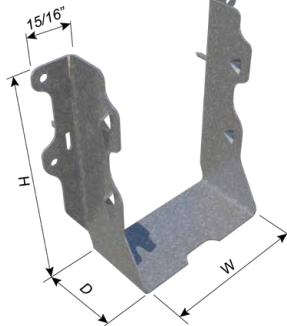
CDLDS28-2



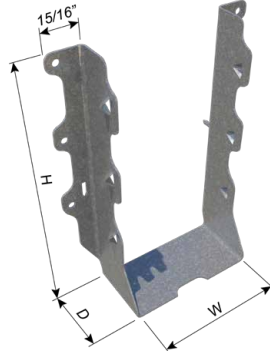
CDLDS28-3



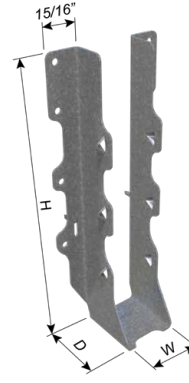
CDLDS44



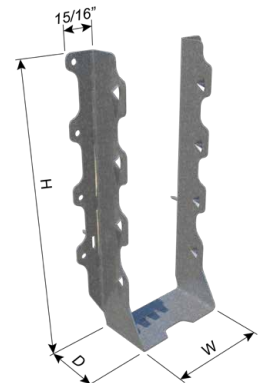
CDLDS46



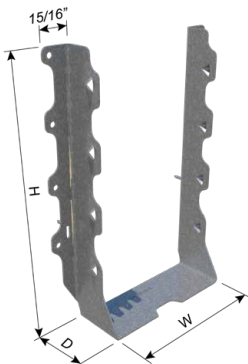
CDLDS48



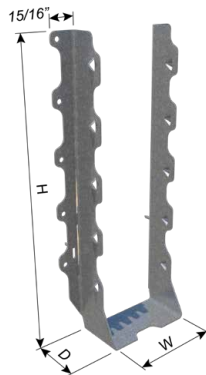
CDLDS210



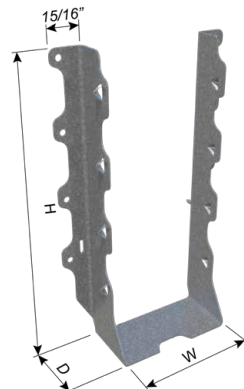
CDLDS210-2



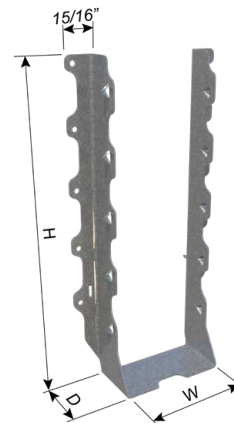
CDLDS210-3



CDLDS212-2



CDLDS410



CDLDS412

Double Shear Face-Mount Hangers (CDLDS)

Spruce-Pine-Fir (0.42 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimension (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C _D = 1.00	C _D = 1.15	C _D = 1.25	
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
	Enhanced							6	6	1205	1385	1505	1180
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1205	1385	1450	775
	Enhanced							6	8	1405	1615	1755	1055
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
							16d Comm	2	4	720	825	855	455
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
							16d Comm	4	4	960	1100	1195	885
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
							16d Comm	4	6	1195	1375	1495	1105
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1205	1385	1505	1180
							16d Comm	6	6	1435	1650	1740	1180
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced							8	8	1915	2200	2355	2240
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	1915	2205	2395	1240
								10	10	2395	2755	2990	2445
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	600	690	755	455
							16d Comm	2	4	720	825	855	455
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
							16d Comm	4	4	960	1100	1195	885
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1005	1155	1255	800
							16d Comm	4	6	1195	1375	1495	1105
	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1205	1385	1505	1180
							16d Comm	6	6	1435	1650	1740	1180
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced							8	8	1915	2200	2355	2240
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	1915	2205	2395	1240
	Enhanced							10	10	2395	2755	2990	2445
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	800	920	1000	885
							16d Comm	4	4	960	1100	1195	885
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1005	1155	1255	800
							16d Comm	4	6	1195	1375	1495	1105
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1205	1385	1505	1180
							16d Comm	6	6	1435	1650	1740	1180
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	1675	1840	1840	1325
	Enhanced							8	8	1915	2200	2355	2240

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- See images for hanger dimension definitions of W, H, and D.
- Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- CDLDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Double Shear Face-Mount Hangers

CDLDS Series

Double Shear Face-Mount Hangers (CDLDS)

Douglas Fir-Larch (0.50 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimensions (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C _D = 1.00	C _D = 1.15	C _D = 1.25	
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
	Enhanced							6	6	1410	1620	1760	1405
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1410	1620	1730	925
	Enhanced							6	8	1645	1890	2055	1260
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
							16d Comm	2	4	840	965	1020	540
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
							16d Comm	4	4	1120	1290	1400	1055
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
							16d Comm	4	6	1405	1610	1750	1315
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1410	1620	1760	1405
							16d Comm	6	6	1685	1935	2075	1405
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced							8	8	2245	2580	2805	2665
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	2240	2575	2800	1475
	Enhanced							10	10	2805	3225	3505	2910
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	705	810	880	540
							16d Comm	2	4	840	965	1020	540
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
							16d Comm	4	4	1120	1290	1400	1055
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1175	1350	1465	950
							16d Comm	4	6	1400	1610	1750	1315
	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1410	1620	1760	1405
							16d Comm	6	6	1685	1935	2075	1405
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced							8	8	2245	2580	2805	2665
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	2240	2575	2800	1475
	Enhanced							10	10	2805	3225	3505	2910
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	940	1080	1175	1055
							16d Comm	4	4	1120	1290	1400	1055
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1175	1350	1465	950
							16d Comm	4	6	1400	1610	1750	1315
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1410	1620	1760	1405
							16d Comm	6	6	1685	1935	2075	1405
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	1960	2190	2190	1575
	Enhanced							8	8	2245	2580	2805	2665

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 See images for hanger dimension definitions of W, H, and D.

2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

3 The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.

4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.

5 The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.

6 CDLDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Double Shear Face-Mount Hangers (CDLDS)

Southern Pine (0.55 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimensions (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDLDS24	Standard	1.5	18	1-9/16	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
CDLDS26	Standard	1.5	18	1-9/16	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
CDLDS28	Standard	1.5	18	1-9/16	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
	Enhanced							6	6	1535	1765	1915	1545
CDLDS210	Standard	1.5	18	1-9/16	8-5/32	1-15/16	10d Comm	4	8	1530	1760	1900	1015
	Enhanced							6	8	1785	2055	2235	1385
CDLDS24-2	Standard	3	18	3-1/4	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
							16d Comm	2	4	915	1050	1125	595
CDLDS26-2	Standard	3	18	3-1/4	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
							16d Comm	4	4	1220	1405	1525	1160
CDLDS28-2	Standard	3	18	3-1/4	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
							16d Comm	4	6	1525	1755	1905	1640
	Enhanced	3	18	3-1/4	6-15/16	1-15/16	10d Comm	6	6	1535	1765	1915	1545
							16d Comm	6	6	1830	2105	2280	1545
CDLDS210-2	Standard	3	18	3-1/4	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced							8	8	2445	2810	3055	2935
CDLDS212-2	Standard	3	18	3-1/4	10-13/16	1-15/16	16d Comm	6	10	2440	2805	3045	1625
	Enhanced							10	10	3055	3510	3815	3200
CDLDS44	Standard	3.5	18	3-9/16	3-3/32	1-15/16	10d Comm	2	4	765	880	955	595
							16d Comm	2	4	915	1050	1125	595
CDLDS46	Standard	3.5	18	3-9/16	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
							16d Comm	4	4	1220	1405	1525	1160
CDLDS48	Standard	3.5	18	3-9/16	6-15/16	1-15/16	10d Comm	4	6	1275	1470	1595	1045
							16d Comm	4	6	1525	1755	1905	1045
CDLDS48	Enhanced	3.5	18	3-9/16	6-31/32	1-15/16	10d Comm	6	6	1535	1765	1915	1545
							16d Comm	6	6	1830	2105	2280	1545
CDLDS410	Standard	3.5	18	3-9/16	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced							8	8	2445	2810	3055	2935
CDLDS412	Standard	3.5	18	3-9/16	10-13/16	1-15/16	16d Comm	6	10	2440	2805	3045	1625
	Enhanced							10	10	3055	3510	3815	3200
CDLDS26-3	Standard	4.5	18	4-7/8	5-1/32	1-15/16	10d Comm	4	4	1020	1175	1280	1160
							16d Comm	4	4	1220	1405	1525	1160
CDLDS28-3	Standard	4.5	18	4-7/8	6-31/32	1-15/16	10d Comm	4	6	1275	1470	1595	1045
							16d Comm	4	6	1525	1755	1905	1045
	Enhanced	4.5	18	4-7/8	6-15/16	1-15/16	10d Comm	6	6	1535	1765	1915	1545
							16d Comm	6	6	1830	2105	2280	1545
CDLDS210-3	Standard	4.5	18	4-7/8	8-7/8	1-15/16	16d Comm	6	8	2135	2410	2410	1730
	Enhanced							8	8	2445	2810	3055	2935

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- See images for hanger dimension definitions of W, H, and D.
- Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- CDLDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Double Shear Face-Mount Hangers

CDMDS Series

Double shear nailing distributes loads at two points across the joist nails, reducing the number of nails and enabling quicker installation. Use the enhanced nailing schedule for greater load carrying capacities.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Gauge: 16ga (54mil)

Design Thickness: 0.0451 inches

Design Thickness: 0.0566 inches

Coating: G90 (Z275) hot-dipped galvanized coating

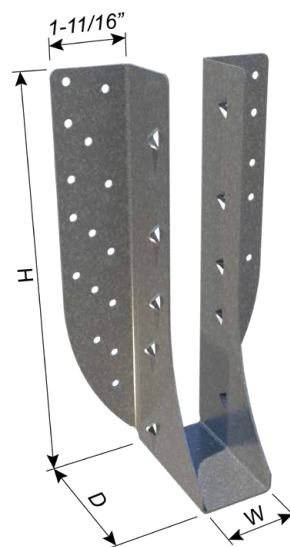
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

- ICC-ES ESR-5062

INSTALLATION

- Use all specified fasteners.
- Joist nails must be driven at an angle in the joist or truss to achieve the published loads.
- Not designed for welded applications



CDMDS Installation



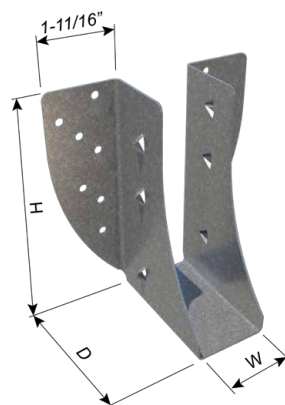
CDMDS-2 Installation



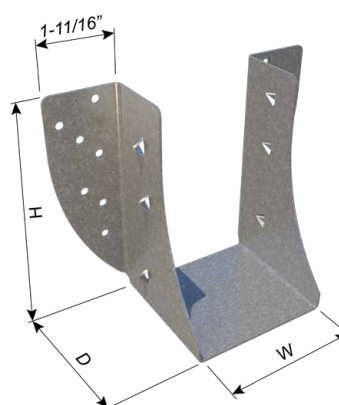
CDMDS-3 Installation



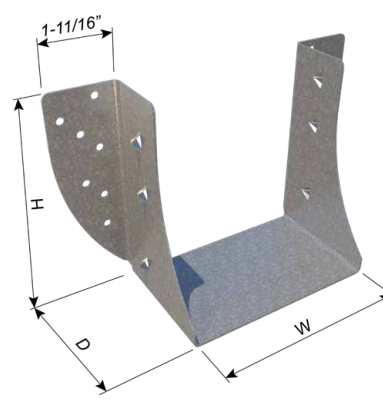
CDMDS-4 Installation



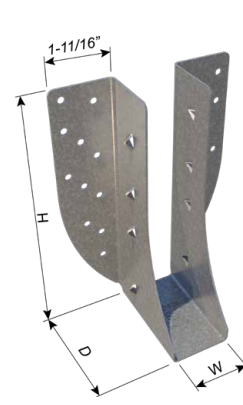
CDMDS26



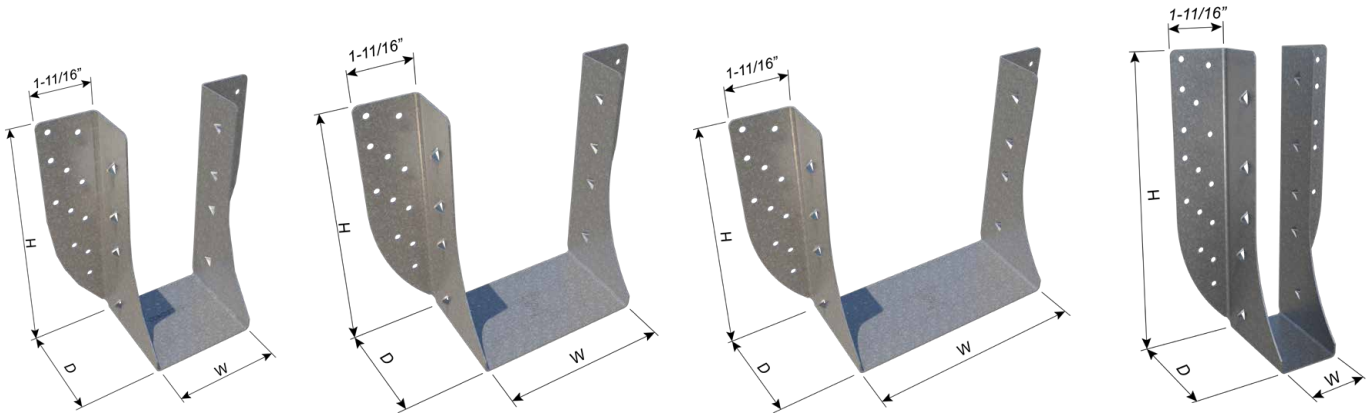
CDMDS26-2



CDMDS26-3



CDMDS28

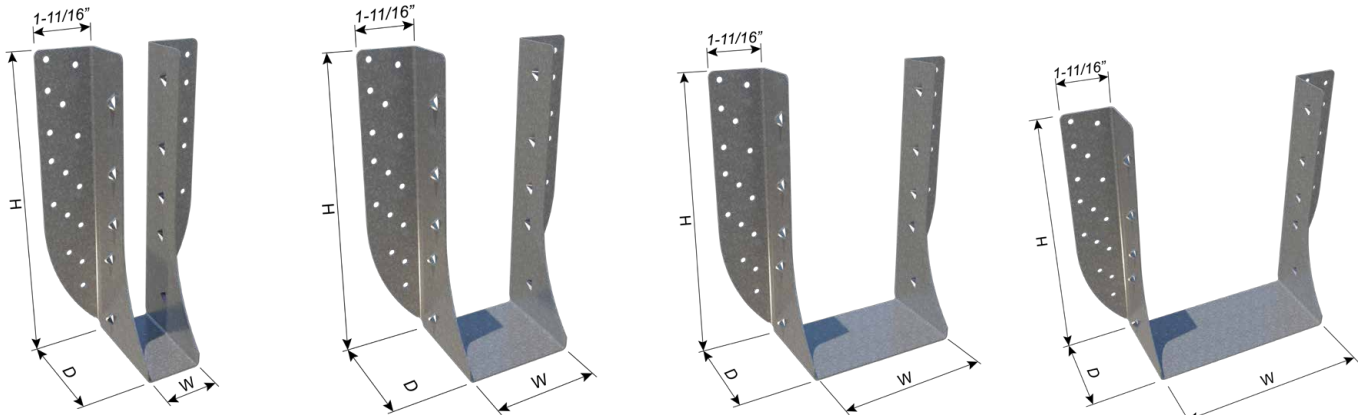


CDMS28-2

CDMS28-3

CDMS28-4

CDMS1.81/10

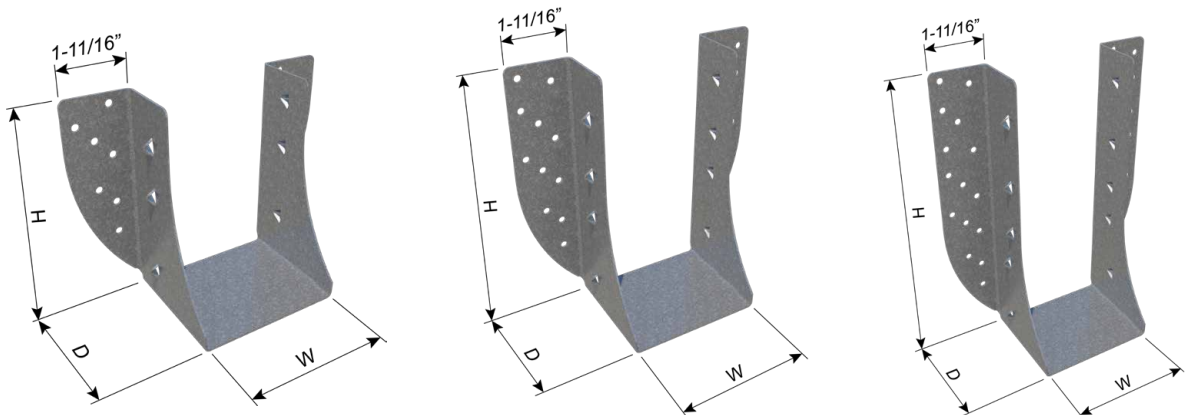


CDMS210

CDMS210-2

CDMS210-3

CDMS210-4



CDMS46

CDMS48

CDMS410

Double Shear Face-Mount Hangers

CDMDS Series

Double Shear Face-Mount Hangers (CDMDS)

Spruce Pine-Fir (0.42 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimensions (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C _D = 1.00	C _D = 1.15	C _D = 1.25	
CDMDS26	Standard	1.5	18	1-5/8	5-11/64	3-5/32	16d Comm	6	14	2395	2560	2560	1310
CDMDS28	Standard	1.5	18	1-5/8	6-15/16	3-5/32	16d Comm	8	22	3505	3745	3905	2085
CDMDS210	Standard	1.5	18	1-5/8	8-13/16	3-5/32	16d Comm	10	30	3905	4205	4405	2970
CDMDS1.81/10	Standard	1.75	18	1-13/16	8-13/16	3-5/32	16d Comm	10	30	4225	4525	4665	2970
CDMDS26-2	Standard	3	16	3-1/4	5-3/16	3-3/16	16d Comm	6	14	2425	2790	3035	1295
CDMDS28-2	Standard	3	16	3-1/4	6-7/8	3-3/16	16d Comm	8	22	3645	4190	4555	2085
CDMDS210-2	Standard	3	16	3-1/4	8-13/16	3-3/16	16d Comm	10	30	4860	5590	6075	3105
CDMDS46	Standard	3.5	16	3-5/8	5-3/16	3-3/16	16d Comm	6	14	2425	2790	3035	1295
CDMDS48	Standard	3.5	16	3-5/8	6-7/8	3-3/16	16d Comm	8	22	3645	4190	4555	2085
CDMDS410	Standard	3.5	16	3-5/8	8-13/16	3-3/16	16d Comm	10	30	4860	5590	6075	3105
CDMDS26-3	Standard	4.5	16	4-7/8	5-3/16	3-3/16	16d Comm	6	14	2425	2790	3035	1295
CDMDS28-3	Standard	4.5	16	4-7/8	6-7/8	3-3/16	16d Comm	8	22	3645	4190	4555	2085
CDMDS210-3	Standard	4.5	16	4-7/8	8-13/16	3-3/16	16d Comm	10	30	4860	5590	6075	3105
CDMDS28-4	Standard	6	16	6-9/16	6-7/8	3-3/16	16d Comm	8	22	3645	4190	4555	2085
CDMDS210-4	Standard	6	16	6-9/16	8-13/16	3-3/16	16d Comm	10	30	4860	5590	6075	3105

Douglas Fir-Larch (0.50 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimensions (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C ₀ = 1.00	C ₀ = 1.15	C ₀ = 1.25	
CDMDS26	Standard	1.5	18	1-5/8	5-11/64	3-5/32	16d Comm	6	14	2800	3045	3045	1560
CDMDS28	Standard	1.5	18	1-5/8	6-15/16	3-5/32	16d Comm	8	22	4200	4710	4710	2480
CDMDS210	Standard	1.5	18	1-5/8	8-13/16	3-5/32	16d Comm	10	30	5160	5515	5555	3540
CDMDS1.81/10	Standard	1.75	18	1-13/16	8-13/16	3-5/32	16d Comm	10	30	5555	5555	5555	3540
CDMDS26-2	Standard	3	16	3-1/4	5-3/16	3-3/16	16d Comm	6	14	2835	3260	3545	1545
CDMDS28-2	Standard	3	16	3-1/4	6-7/8	3-3/16	16d Comm	8	22	4255	4890	5315	2480
CDMDS210-2	Standard	3	16	3-1/4	8-13/16	3-3/16	16d Comm	10	30	5670	6520	7090	3695
CDMDS46	Standard	3.5	16	3-5/8	5-3/16	3-3/16	16d Comm	6	14	2835	3260	3545	1545
CDMDS48	Standard	3.5	16	3-5/8	6-7/8	3-3/16	16d Comm	8	22	4255	4890	5315	2480
CDMDS410	Standard	3.5	16	3-5/8	8-13/16	3-3/16	16d Comm	10	30	5670	6520	7090	3695
CDMDS26-3	Standard	4.5	16	4-7/8	5-3/16	3-3/16	16d Comm	6	14	2835	3260	3545	1545
CDMDS28-3	Standard	4.5	16	4-7/8	6-7/8	3-3/16	16d Comm	8	22	4255	4890	5315	2480
CDMDS210-3	Standard	4.5	16	4-7/8	8-13/16	3-3/16	16d Comm	10	30	5670	6520	7090	3695
CDMDS28-4	Standard	6	16	6-9/16	6-7/8	3-3/16	16d Comm	8	22	4255	4890	5315	2480
CDMDS210-4	Standard	6	16	6-9/16	8-13/16	3-3/16	16d Comm	10	30	5670	6520	7090	3695

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- 1 See images for hanger dimension definitions of W, H, and D.
- 2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- 3 The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- 4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.
- 5 The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- 6 CDMDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Double Shear Face-Mount Hangers (CDMDS)

Southern Pine (0.55 Specific Gravity)													
Product code	Fastening	Total Supported Breadth (in)	Gauge	Hanger Dimensions (in)			Nails			Allowable Load (lbs)			
				Clear Seat Width, W	Overall Height, H	Overall Depth, D	Type	Quantity		Download			Uplift
								Joist	Header	C _D = 1.00	C _D = 1.15	C _D = 1.25	
CDMDS26	Standard	1.5	18	1-5/8	5-11/64	3-5/32	16d Comm	6	14	3045	3350	3350	1715
CDMDS28	Standard	1.5	18	1-5/8	6-15/16	3-5/32	16d Comm	8	22	4210	4520	4725	2730
CDMDS210	Standard	1.5	18	1-5/8	8-13/16	3-5/32	16d Comm	10	30	4725	5110	5365	3890
CDMDS1.81/10	Standard	1.75	18	1-13/16	8-13/16	3-5/32	16d Comm	10	30	5085	5470	5725	3890
CDMDS26-2	Standard	3	16	3-1/4	5-3/16	3-3/16	16d Comm	6	14	3080	3540	3850	1700
CDMDS28-2	Standard	3	16	3-1/4	6-7/8	3-3/16	16d Comm	8	22	4620	5310	5775	2730
CDMDS210-2	Standard	3	16	3-1/4	8-13/16	3-3/16	16d Comm	10	30	6160	7080	7525	4065
CDMDS46	Standard	3.5	16	3-5/8	5-3/16	3-3/16	16d Comm	6	14	3080	3540	3850	1700
CDMDS48	Standard	3.5	16	3-5/8	6-7/8	3-3/16	16d Comm	8	22	4620	5310	5775	2730
CDMDS410	Standard	3.5	16	3-5/8	8-13/16	3-3/16	16d Comm	10	30	6160	7080	7700	4065
CDMDS26-3	Standard	4.5	16	4-7/8	5-3/16	3-3/16	16d Comm	6	14	3080	3540	3850	1700
CDMDS28-3	Standard	4.5	16	4-7/8	6-7/8	3-3/16	16d Comm	8	22	4620	5310	5775	2730
CDMDS210-3	Standard	4.5	16	4-7/8	8-13/16	3-3/16	16d Comm	10	30	6160	7080	7700	4065
CDMDS28-4	Standard	6	16	6-9/16	6-7/8	3-3/16	16d Comm	8	22	4620	5310	5775	2730
CDMDS210-4	Standard	6	16	6-9/16	8-13/16	3-3/16	16d Comm	10	30	6160	7080	7700	4065

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- See images for hanger dimension definitions of W, H, and D.
- Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- CDMDS hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Adjustable Strap Hangers

CDSTH Series

Superior performance and easy installation. The hanger's long straps can be field formed to the required height of the carried member. Face mount nailing options available. Designed and developed for Component Manufacturers to have a wide range of use including:

- Ceiling hanger
- Face mount hanger
- Top flange hanger
- Top flange over-the-back hanger

Reverse flange options available on some products.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Gauge: 16ga (54mil)

Design Thickness: 0.0451 inches

Design Thickness: 0.0566 inches

Coating: G90 (Z275) hot-dipped galvanized coating

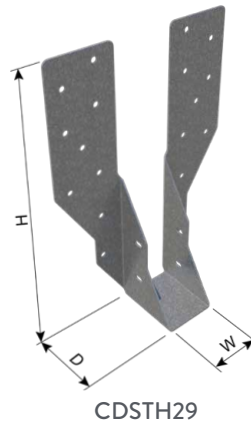
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

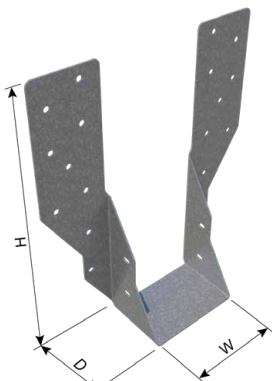
- ICC-ES ESR-5062

INSTALLATION

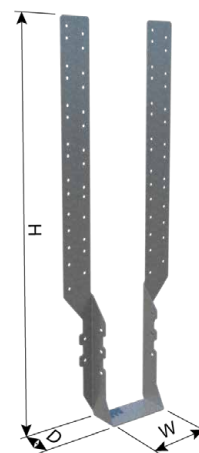
- Use all specified nails indicated in the table. Verify that the header dimensions will accommodate the specified nails.
- When less than the maximum number of nails are used, allowable load must be reduced for each nail eliminated.



CDSTH29

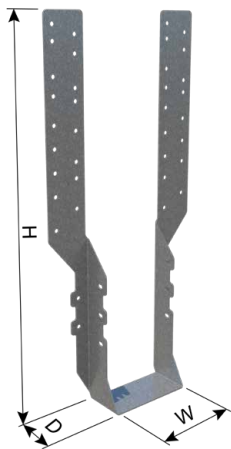
CDSTH29
Face InstallationCDSTH29
Top Installation

CDSTH29-2

CDSTH29-2
Face Installation

CDSTH422

CDSTH422
Top Installation



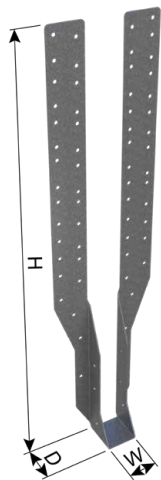
CDSTH418



CDSTH418
Face Installation



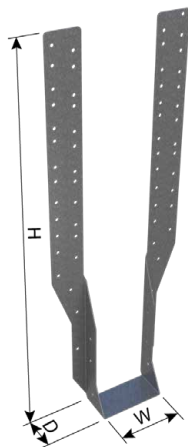
CDSTH418
Top Installation



CDSTHI222



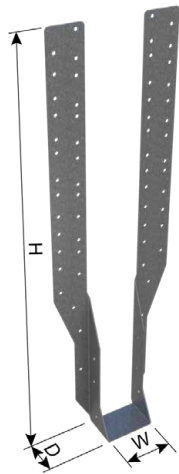
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CDSTHI422



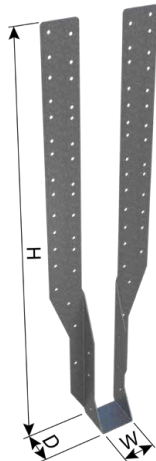
CDSTHI422
Top Installation



CDSTHI322



CDSTHI322
Top Installation



CDSTHI1.81-22



CDSTHI1.81-22
Top Installation

Adjustable Strap Hangers

CDSTH Series

Adjustable Strap Hangers (CDSTH/CDSTHI)

Spruce Pine-Fir (0.42 Specific Gravity)

Product code	Gauge	Hanger Dimension (in.)			Minimum Header (in.)		Common Nail Type Fasteners							Allowable Load (lbs)				
		Clear Seat Width, W	Overall Height, H	Overall Depth, D	Breadth	Depth	Joist at 90 Degrees		Joist at 45 Degrees		Header			Load Duration Factor				
							Size	Qty	Size	Qty	Size	Qty in Face	Qty in Top	Download			Uplift	
														C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60	
Top Mount Installation																		
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	1750	1750	1750	675	
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	1750	1750	1750	675	
CDSTH418	16	3-5/8	16-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2205	2205	2205	0	
CDSTH422	16	3-5/8	22-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2205	2205	2205	0	
CDSTHI1.81/22	16	1-13/16	21-13/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1195	1195	1195	0	
CDSTHI222	16	1-9/16	21-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1195	1195	1195	0	
CDSTHI322	16	2-9/16	21-7/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1195	1195	1195	0	
CDSTHI422	16	3-9/16	20-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1195	1195	1195	0	
Face Mount Installation																		
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	1615	1615	1615	675	
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	1615	1615	1615	675	
CDSTH418	16	3-5/8	16-1/16	1-31/32	1-1/2	16-1/2	na	0	16d Comm	6	16d Comm	22	0	2895	2895	2895	1520	

Douglas Fir-Larch (0.50 Specific Gravity)

Product code	Gauge	Hanger Dimension (in.)			Minimum Header (in.)		Common Nail Type Fasteners							Allowable Load (lbs)			
		Clear Seat Width, W	Overall Height, H	Overall Depth, D	Breadth	Depth	Joist at 90 Degrees		Joist at 45 Degrees		Header			Load Duration Factor			
							Size	Qty	Size	Qty	Size	Qty in Face	Qty in Top	Downlad			Uplift
														C ₀ = 1.00	C _D = 1.15	C _D = 1.25	
Top Mount Installation																	
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	2085	2085	2085	805
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	2085	2085	2085	805
CDSTH418	16	3-5/8	16-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2625	2625	2625	0
CDSTH422	16	3-5/8	22-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2625	2625	2625	0
CDSTHI1.81/22	16	1-13/16	21-13/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1420	1420	1420	0
CDSTHI222	16	1-9/16	21-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1420	1420	1420	0
CDSTHI322	16	2-9/16	21-7/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1420	1420	1420	0
CDSTHI422	16	3-9/16	20-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1420	1420	1420	0
Face Mount Installation																	
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	1925	1925	1925	805
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	1925	1925	1925	805
CDSTH418	16	3-5/8	16-1/16	1-31/32	1-1/2	16-1/2	na	0	16d Comm	6	16d Comm	22	0	3450	3450	3450	1810

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- See images for hanger dimension definitions of W, H, and D.
- Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- For face mount installation, when more holes in header flanges are available than required fasteners, fasteners must be evenly divided between header flanges and placed in the lowermost 4 holes in each header flange and the uppermost available 2 holes of each header flange, with remaining fasteners evenly distributed throughout remaining header flange holes.
- For top mount installations, fasteners in top of header must be evenly divided between header flanges. The furthest fastener in each top flange from the hanger face of the header must be at least 2 inches for the CDSTH418 and CDSTH422, and 2.25 inches for the CDSTH29 and CDSTH29-2, and 2.5 inches for the CDSTHI1.81/22, CDSTHI222, CDSTHI322, and CDSTHI422. Fasteners in face of header must be evenly divided between header flanges and applied in the lowermost holes of each header flange.
- All fasteners must be placed a minimum of 1/4" from any edge of members.
- CDSTH hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Adjustable Strap Hangers (CDSTH/CDSTHI)

Southern Pine (0.55 Specific Gravity)																	
Product code	Gauge	Hanger Dimension (in.)			Minimum Header (in.)		Common Nail Type Fasteners							Allowable Load (lbs)			
		Clear Seat Width, W	Overall Height, H	Over-all Depth, D	Breadth	Depth	Joist at 90 Degrees		Joist at 45 Degrees		Header			Load Duration Factor			
							Size	Qty	Size	Qty	Size	Qty in Face	Qty in Top	Download			Uplift
														C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
Top Mount Installation																	
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	2295	2295	2295	885
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	5-1/2	na	0	10d Comm	4	10d Comm	4	4	2295	2295	2295	885
CDSTH418	16	3-5/8	16-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2885	2885	2885	0
CDSTH422	16	3-5/8	22-1/16	1-31/32	3	11-1/4	10d Comm	6	na	0	16d Comm	2	4	2885	2885	2885	0
CDSTHI1.81/22	16	1-13/16	21-13/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1565	1565	1565	0
CDSTHI222	16	1-9/16	21-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1565	1565	1565	0
CDSTHI322	16	2-9/16	21-7/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1565	1565	1565	0
CDSTHI422	16	3-9/16	20-15/16	1-31/32	3	11-1/4	10d Comm	2	na	0	10d Comm	2	4	1565	1565	1565	0
Face Mount Installation																	
CDSTH29	18	1-5/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	2115	2115	2115	885
CDSTH29-2	18	3-1/8	8-25/32	2-5/16	3	9-1/4	na	0	10d Comm	4	10d Comm	16	0	2115	2115	2115	885
CDSTH418	16	3-5/8	16-1/16	1-31/32	1-1/2	16-1/2	na	0	16d Comm	6	16d Comm	22	0	3795	3795	3795	1995

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- See images for hanger dimension definitions of W, H, and D.
- Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.
- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, respectively for the wood species noted in the table.
- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- For face mount installation, when more holes in header flanges are available than required fasteners, fasteners must be evenly divided between header flanges and placed in the lowermost 4 holes in each header flange and the uppermost available 2 holes of each header flange, with remaining fasteners evenly distributed throughout remaining header flange holes.
- For top mount installations, fasteners in top of header must be evenly divided between header flanges. The furthest fastener in each top flange from the hanger face of the header must be at least 2 inches for the CDSTH418 and CDSTH422, and 2.25 inches for the CDSTH29 and CDSTH29-2, and 2.5 inches for the CDSTHI1.81/22, CDSTHI222, CDSTHI322, and CDSTHI422. Fasteners in face of header must be evenly divided between header flanges and applied in the lowermost holes of each header flange.
- All fasteners must be placed a minimum of 1/4" from any edge of members.
- CDSTH hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Truss and Rafters

PAGE 55 TRUSS SPACER / BRACER (CDTBR24)

PAGES 56 HURRICANE ANCHOR CLIPS (CDHTA2.5, CDHTHA4)

PAGES 57 MEDIUM DUTY JOIST & TRUSS HANGER (CDAHU)

PAGE 58-59 LOAD SHARE CLIP (CDLSC)

PAGES 60-63 HURRICANE TIE (CDHT)

Truss Spacer / Bracer

The CDTBR24 is made from high-strength steel to meet the industry's most demanding engineering standards. It was designed from the ground up to solve field installation problems. The new Truss Spacer/Bracer is used for lateral bracing and spacing of trusses 24 inches on center.

The CDTBR24 meets BCSI-B2 Truss Installation & Temporary Restraint/Bracing requirements, with values that exceed the competition in every installation configuration. To eliminate potential safety issues, the edges have been rolled and the tabs are inverted for easy installation.

MATERIAL SPECIFICATIONS

Gauge: 24 gauge (23mil)

Design thickness: 0.0238 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

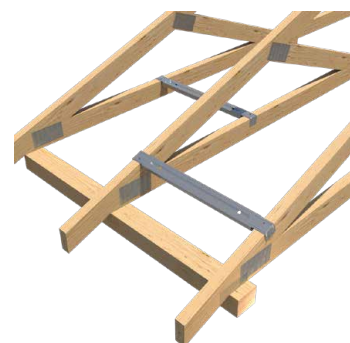
Length (L): 25-9/16"

Width (W): 1-1/2"

Depth (D): 5/8"

CODE REPORT

- IAPMO ER-0176



TBR24 Installation

Truss Spacer / Bracer (CDTBR24)

Product code	Fastener (Quantity per Bracer)		Load Type	Allowable Loads (lbs)											
				Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
	Size	Quantity		Load Duration Factor				Load Duration Factor				Load Duration Factor			
				1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
CDTBR24 (Reduced Nailing)	10d x 1-1/2	2	Tension	175	175	175	175	225	225	225	225	230	230	230	230
CDTBR24 (Reduced Nailing)	10d x 1-1/2	2	Compression	370	385	395	430	515	530	545	585	485	505	515	560
CDTBR24	10d x 1-1/2	4	Tension	375	390	400	400	510	510	510	510	495	510	510	510
CDTBR24	10d x 1-1/2	4	Compression	400	420	435	480	560	585	605	605	545	575	595	605

Notes:

1 Allowable Load Capacities based on the Tabulated Species and Load Duration Factor.

2 CDTBR24 product is made of No. 24 gauge steel.

3 CDTBR24 have a dimension of Length: 25-9/16 inches, Width: 1-1/2 inches, Depth: 5/8 inch.

4 The required permanent lateral support for wood trusses shall be designed in accordance with Section 2303.4.1.5 of 2006 IBC or Section 2303.4.1.2 of 2009 IBC and 2012 IBC.

5 To obtain reduced nailing bracer capacities in tension and compression, nails shall be installed at each end of the bracer on narrow face.

6 To obtain maximum bracer capacities in tension and compression, nails shall be installed at each end of the bracer on both narrow face and wide face.

Hurricane Anchor Clips

The CDHTHA anchor series is manufactured to attach metal plate connected trusses, framing members and wall members, made of solid sawn or structural composite lumber; to solid sawn or structural composite lumber wall members. The CDHTHA anchors resists upward load, lateral load perpendicular to the supported truss or framing member.

The CDHTHA2.5 product may be used on either or both sides for the supported member.

Attachment is required to the lower portion of the supported truss or framing member, and the top plates of the supporting wall, or wall stud and anchored sill (bottom) plate(s).

MATERIAL SPECIFICATIONS

- Gauge: 18ga (43mil)
- Design Thickness: 0.0451 inches
- Coating: G90 (Z275) hot-dipped galvanized coating
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

CDHTHA2.5

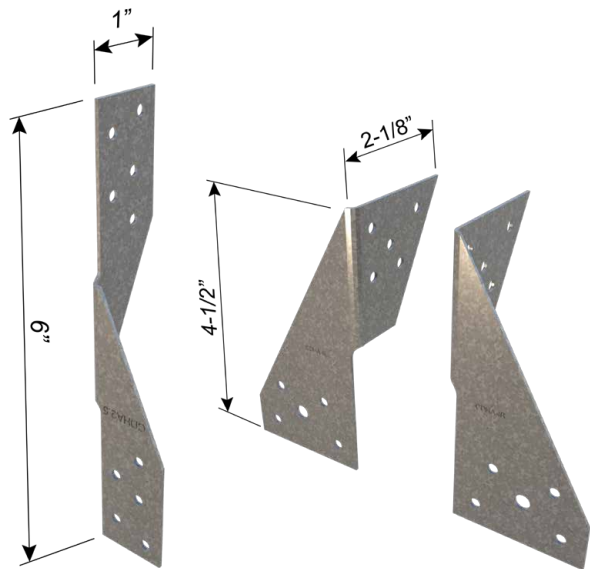
- Width (W): 1"
- Height (H): 6"

CDHTHA4

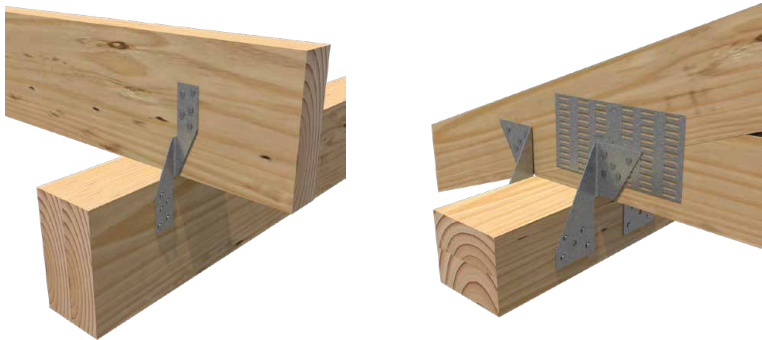
- Width (W): 2.125"
- Height (H): 4.5"

CODE REPORT

- IAPMO ER-0176



CDHTHA2.5 CDHTHA4



CDHTHA2.5 Installation CDHTHA4 Installation

Hurricane Anchor Clips (CDHTHA2.5, CDHTHA4)

Product code	Common Nail Type Fasteners				Allowable Upward Loads (lbs)											
					Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
	Joist Size	Joist Qty.	Wall Plate Size	Wall Plate Qty.	Load Duration Factor				Load Duration Factor				Load Duration Factor			
					1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60
(2)CDHTHA2.5 (1 each face)	0.131" x 1.5"	10	0.131" x 1.5"	10	835	960	1045	1145	975	1120	1145	1145	1055	1145	1145	1145
(2)CDHTHA2.5 (1 each face)	0.131" x 1.5"	10	0.131" x 2.5"	10	835	960	1045	1145	975	1120	1145	1145	1055	1145	1145	1145
(4)CDHTHA4 (2 each face)	0.131" x 1.5"	5	0.131" x 2.5"	4	1340	1540	1680	2140	1560	1800	1940	2500	1680	1940	2100	2700
(4)CDHTHA4 (2 each face)	0.131" x 1.5"	5	0.148" x 1.5"	4	1620	1860	2020	2580	1880	2160	2340	3000	2040	2340	2540	3260

- Notes:
- 1 Allowable Load Capacities based on Species and Load Duration Factor as permitted by applicable building code.
 - 2 Products shown in table are made of No. 18 gauge steel.
 - 3 Products shall be installed in pairs on each side of the connected member for the CDHTHA2.5.
 - 4 Four CDHTHA4 shall be installed, two on each face, to the connected member.

Medium Duty Joist and Truss Hangers

CDAHU is a face-mount hanger designed for wood plate trusses and heavily loaded members with a 2-3/4" seat dimension.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

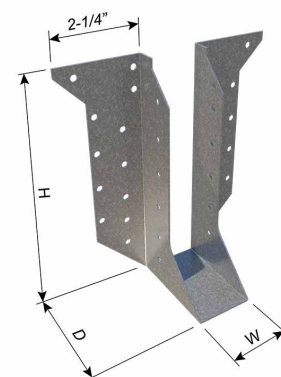
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

JOIST SIZES: Singles and Doubles, 2x4, 2x6, 2x8

CODE REPORT

- ICC-ES ESR-5062



CDAHU Installation

Medium Duty Joist and Truss Hangers (CDAHU)

Spruce Pine-Fir (0.42 Specific Gravity)												
Product code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5}			
		Width, W	Height, H	Depth, D	Joist		Wall Plate		Download			Uplift
					Size	Qty	Size	Qty	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAHU26	18	1-9/16	5-1/2	2-3/4	10d x 1-1/2	8	16d Comm	24	2560	2585	2585	1000
CDAHU28	18	1-9/16	6-1/2	2-3/4	10d x 1-1/2	12	16d Comm	24	2875	3140	3265	1605
CDAHU210	18	1-9/16	8-1/2	2-3/4	10d x 1-1/2	16	16d Comm	24	2875	3305	3595	2575
CDAHU26-2	18	3-7/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	2590	2590	2590	1000
CDAHU46	18	3-9/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	2590	2590	2590	1000

Douglas Fir-Larch (0.50 Specific Gravity)												
Product code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5}			
		Width, W	Height, H	Depth, D	Joist		Wall Plate		Download			Uplift
					Size	Qty	Size	Qty	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAHU26	18	1-9/16	5-1/2	2-3/4	10d x 1-1/2	8	16d Comm	24	3075	3075	3075	1190
CDAHU28	18	1-9/16	6-1/2	2-3/4	10d x 1-1/2	12	16d Comm	24	3350	3850	4030	1910
CDAHU210	18	1-9/16	8-1/2	2-3/4	10d x 1-1/2	16	16d Comm	24	3350	3850	4185	3000
CDAHU26-2	18	3-7/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	3075	3075	3075	1190
CDAHU46	18	3-9/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	3075	3075	3075	1190

Southern Pine (0.55 Specific Gravity)												
Product code	Gauge	Hanger Dimensions ¹ (in)			Fasteners ²				Allowable Load ^{3,4,5}			
		Width, W	Height, H	Depth, D	Joist		Wall Plate		Download			Uplift
					Size	Qty	Size	Qty	C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDAHU26	18	1-9/16	5-1/2	2-3/4	10d x 1-1/2	8	16d Comm	24	3345	3345	3345	1290
CDAHU28	18	1-9/16	6-1/2	2-3/4	10d x 1-1/2	12	16d Comm	24	3635	4085	4235	2060
CDAHU210	18	1-9/16	8-1/2	2-3/4	10d x 1-1/2	16	16d Comm	24	3635	4180	4540	3075
CDAHU26-2	18	3-7/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	3345	3345	3345	1290
CDAHU46	18	3-9/16	5-1/2	2-3/4	10d Comm	8	16d Comm	24	3345	3345	3345	1290

Notes (con't):

- The tabulated allowable uplift loads have been increased for wind and seismic loading with no further increase is allowed. The tabulated allowable uplift loads must be reduced when other load duration govern.
- CDAHU hangers have a torsional moment capacity rating of 75 pounds (334 N) times the depth of the joist at which the lateral movement of either the top or bottom of the joist with respect to the original vertical position of the joist is 0.125 inch (3.2mm).

Notes:

For SI: 1 inch = 25.4 mm,
1 pound (lb) = 4.45 N

1 See images for hanger dimension definitions of W, H, and D.
2 Refer to Section 3.2.3 of ESR-5062 for nail sizes and the required minimum physical properties.

3 The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5062 for additional design and installation requirements.
4 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5062 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, respectively for the wood species noted in the table.

Load Share Clip

The CDLSC load share clip series is manufactured to transfer loads between two truss or framing ply members made of solid sawn or structural composite lumber.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

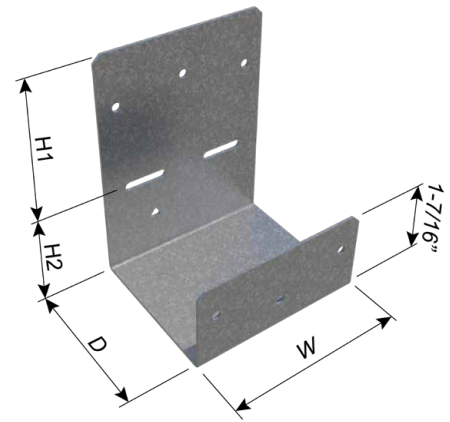
Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

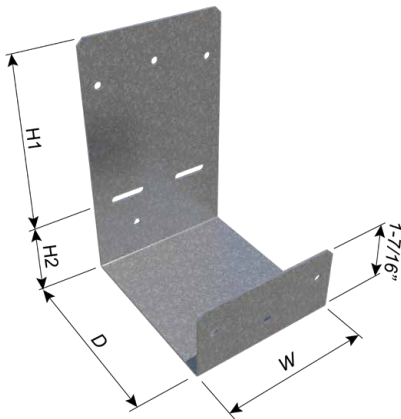
Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

CODE REPORT

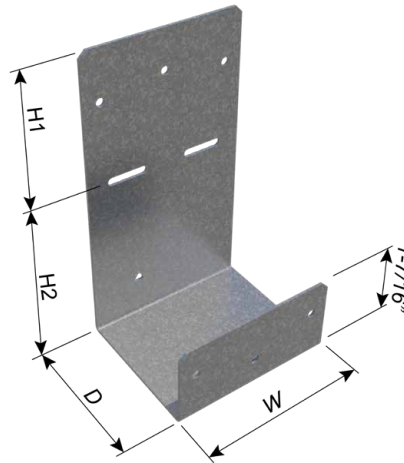
- IAPMO ER-0176



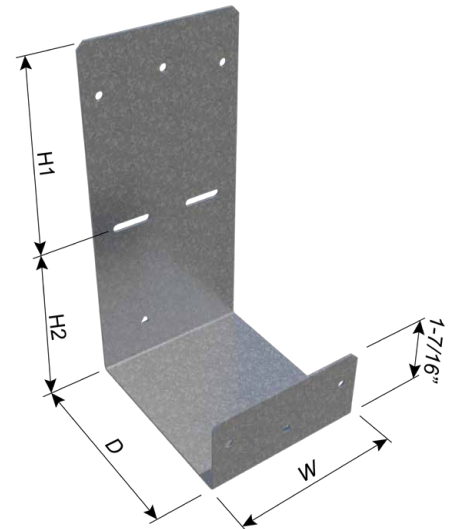
CDLSC32



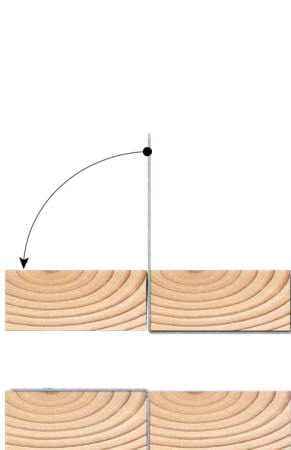
CDLSC42



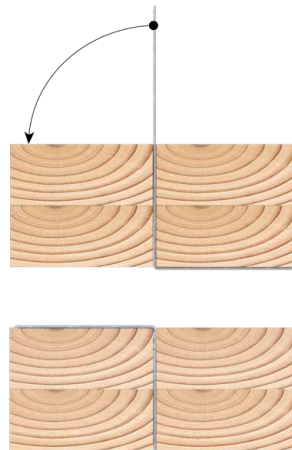
CDLSC32-2



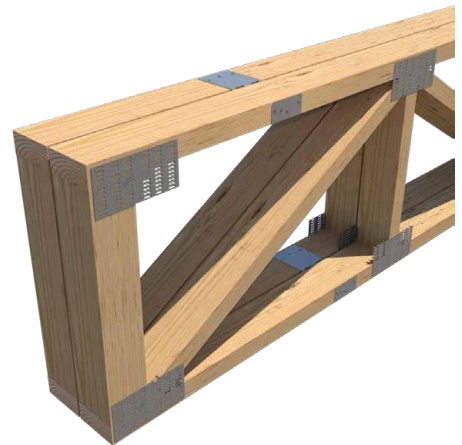
CDLSC42-2



CDLSC Installation



CDLSC Installation



Load Share Clip (CDLSC)																			
Product code	Overall Dimensions (in)				Fasteners				Allowable Downward Loads (lbs)										
					Size	Quantity		Spruce Pine-Fir (0.42 Specific Gravity)				Douglas Fir-Larch (0.50 Specific Gravity)				Southern Pine (0.55 Specific Gravity)			
	Supporting Member	Supported Member	Load Duration Factor				Load Duration Factor				Load Duration Factor								
			1.00	1.15		1.25	1.60	1.00	1.15	1.25	1.60	1.00	1.15	1.25	1.60				
CDLSC32	3	2-7/16	1-1/2	2-1/2	0.131" x 1.5"	3	3	565	565	565	565	770	770	770	770	900	900	900	900
CDLSC32-2	3	2-7/16	3	2-1/2	0.131" x 1.5"	3	3	565	565	565	565	770	770	770	770	900	900	900	900
CDLSC42	3	3-7/16	1-1/2	3-1/2	0.131" x 1.5"	3	3	565	565	565	565	770	770	770	770	900	900	900	900
CDLSC42-2	3	3-7/16	3	3-1/2	0.131" x 1.5"	3	3	565	565	565	565	770	770	770	770	900	900	900	900

- Notes:**
- 1 Allowable Load Capacities based on the Tabulated Species and Load Duration Factor.
 - 2 Products shown in table are made of No. 18 gauge steel.

Hurricane Tie

Used as a connection between truss/rafters and walls to resist lateral and uplift conditions.

MATERIAL SPECIFICATIONS

- Gauge:** 18ga (43mil)
- Design Thickness:** 0.0451 inches
- Coating:** G90 (Z275) hot-dipped galvanized coating
- Yield Strength:** Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

- CDHT2A:** 1-37/64" x 10-7/16"
- CDHT2.5A:** 1-5/8" x 6"
- CDHT2.5T:** 1-27/64" x 6-3/8"
- CDHT3:** 1-5/8" x 4-5/8"

CODE REPORT

- ICC-ES ESR-5079

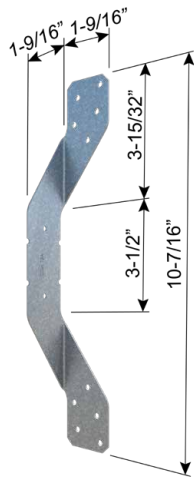


Hurricane Tie (CDHT)

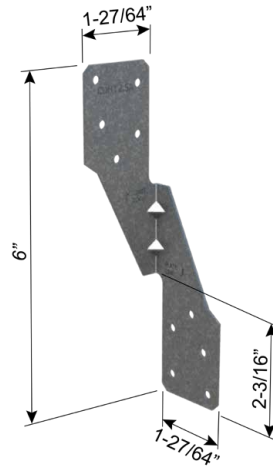
Product Code	Gauge	Fasteners Scheduling				LOAD ⁶ DIR.	Allowable Load (lbf)			
		Type ⁴	Stud Qty.	Plate Qty.	Truss Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDHT2A	18	8d x 2.5	2	5	5	F ₁	245	245	245	245
			2	5	5	F ₂	110	110	110	110
			2	5	5	Uplift	430	430	430	430
CDHT2.5A	18	8d x 2.5	-	5	5	F ₁	380	380	380	380
		#9-15 x 2.5 ⁷	-	5	5		450	450	450	450
	18	8d x 2.5	-	5	5	F ₂	295	295	295	295
		#9-15 x 2.5 ⁷	-	5	5		395	395	395	395
	18	8d x 2.5	-	5	5	Uplift	445	445	445	445
		#9-15 x 2.5 ⁷	-	5	5		450	450	450	450
CDHT2.5T	18	8d x 2.5	-	5	5	F ₁	280	280	280	280
			-	5	5	F ₂	290	290	290	290
			-	5	5	Uplift	465	465	465	465
CDHT3	18	8d x 2.5	4	-	4	F ₁	150	150	150	150
			4	-	4	F ₂	170	170	170	170
			4	-	4	Uplift	380	380	380	380

Notes:

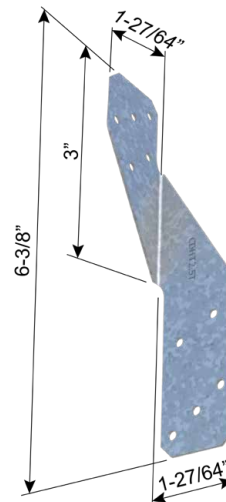
- For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N
- The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
 - The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5079 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, of 625 psi (4.31 MPa) or greater.
 - Refer to images for product dimensions.
 - Refer to Section 3.2.3 of ESR-5079 for nail sizes and the required minimum physical properties.
 - ITW Buildex Trugrip metal-to-wood screws. Refer to www.itwbuildex.com for the required physical properties.
 - F₁ is the load parallel to truss or joist and F₂ is the load perpendicular to truss or joist.



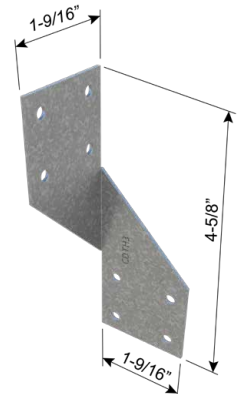
CDHT2A



CDHT2.5A



CDHT2.5T



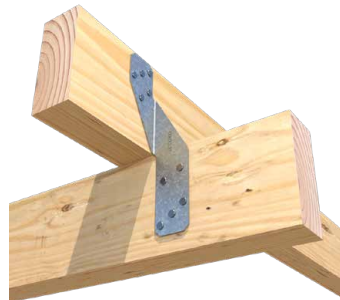
CDHT3



CDHT2A Installation



CDHT2.5A Installation



CDHT2.5T Installation



CDHT3 Installation

Hurricane Tie

Designed to hold trusses on both sides to transfer uplift loads from roof framing members to the wall studs.

MATERIAL SPECIFICATIONS

- Material:** CDHT10A, CDHT10S: 18ga (43mil)
0.0451" Design thickness, 0.0428" Minimum thickness
- Material:** CDHT1= 16ga (54mil)
0.0566" Design thickness, 0.0538" Minimum thickness
- Coating:** G90 (Z275) hot-dipped galvanized coating
(G185 available on CDHT1 & CDHT10A only)
- Yield Strength:** Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

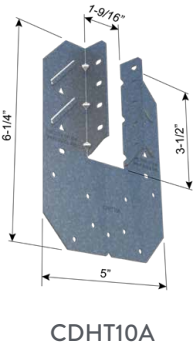
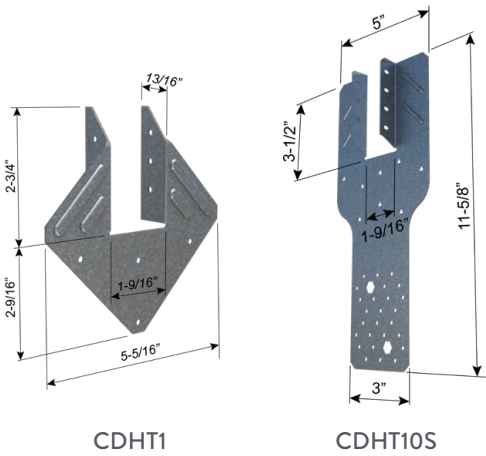
- CDHT1:** 1-9/16" x 5-5/16"
- CDHT10A:** 1-9/16" x 6-1/4"
- CDHT10A-2:** 3-1/8" x 6-1/4"
- CDHT10S:** 1-9/16" x 11-5/8"

CODE REPORT

- ICC-ES ESR-5079

Hurricane Tie (CDHT)										
Product Code	Gauge	Fasteners Scheduling				LOAD ¹ DIR.	Allowable Load (lbF)			
		Type ⁴	Stud Qty.	Plate Qty.	Truss Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDHT1	16	8d x 1-1/2	1	3	6	F ₁	285	330	360	460
			1	3	6	F ₂	285	330	360	405
			1	3	6	Uplift	285	330	360	460
CDHT10A	18	10d x 1-1/2	-	9	8	F ₁	535	535	535	535
			-	9	8	F ₂	220	220	220	220
			-	9	8	Uplift	635	635	635	635
CDHT10S	18	8d x 1-1/2	8	8	8	F ₁	550	550	550	550
			8	8	8	F ₂	210	210	210	210
			8	8	8	Uplift	740	775	775	775

- Notes:**
- For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N
- 1 The tabulated allowable loads have been adjusted for the load duration factors, C_D, as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
 - 2 The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5079 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c-perp, of 625 psi (4.31 MPa) or greater.
 - 3 Refer to images for product dimensions.
 - 4 Refer to Section 3.2.3 of ESR-5079 for nail sizes and the required minimum physical properties.
 - 5 ITW Buildex Trugrip metal-to-wood screws. Refer to www.itwbuildex.com for the required physical properties.
 - 6 F₁ is the load parallel to truss or joist and F₂ is the load perpendicular to truss or joist.



CDHT1 Installation



CDHT10S Installation

CDHT10A Installation

CDHT6 and CDHT8 are high capacity hurricane ties that connect trusses to the top of wall plates in wood framing walls.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

CDHT6: 2-7/16" x 19-3/16"

CDHT8: 1-7/16" x 8"

CODE REPORT

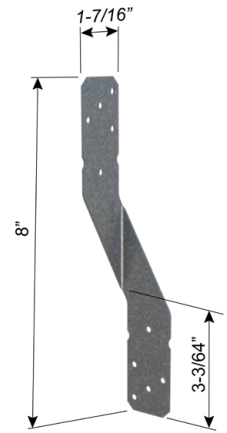
- ICC-ES ESR-5079

Hurricane Tie (CDHT)										
Product Code	Gauge	Fasteners Scheduling				LOAD ⁴ DIR.	Allowable Load (lbf)			
		Type ⁴	Stud Qty.	Plate Qty.	Truss Qty.		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
CDHT6	18	8d x 2-1/2"	1	7	7	F ₁	425	425	425	425
			1	7	7	F ₂	380	380	380	380
			1	7	7	Uplift	735	735	735	735
CDHT8	18	8d x 2-1/2"	-	5	5	F ₁	290	290	290	290
			-	5	5	F ₂	150	150	150	150
			-	5	5	Uplift	480	480	480	480

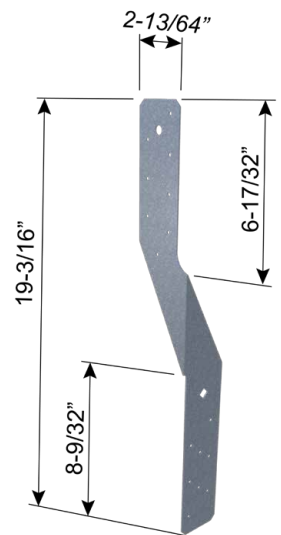
Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

- The tabulated allowable loads have been adjusted for the load duration factors, C_D , as shown, in accordance with the NDS. The tabulated allowable loads do not apply to loads of other load durations, and are not allowed to be adjusted for other load durations. See Sections 4.1 and 4.2 of ESR-5079 for additional design and installation requirements.
- The tabulated allowable loads are for installations on wood members complying with Section 3.2.1 of the ESR-5079 report. Wood members must also have a reference compressive perpendicular to grain design value, F_c -perp, of 625 psi (4.31 MPa) or greater.
- Refer to images for product dimensions.
- Refer to Section 3.2.3 of ESR-5079 for nail sizes and the required minimum physical properties.
- ITW Buildex Trugrip metal-to-wood screws. Refer to www.itwbuildex.com for the required physical properties.
- F_1 is the load parallel to truss or joist and F_2 is the load perpendicular to truss or joist.



CDHT8



CDHT6



CDHT8 Installation



CDHT6 Installation

Post Caps and Bases

PAGE 65 DECK ANCHORS (CDDA)

PAGES 66-67 ADJUSTABLE ANCHORS (CDAA)

PAGE 68 POST BEAM CAP (CDPB)

PAGES 69 POST CAP (CDPC)

Deck Anchors

The CDDA deck anchor post base secures wood posts to a wood supporting member. Eliminates the need for toe-nailing of the post or column.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating (G185 available)

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

CDDA44

Post Size: 4 x 4

Length (L): 3-1/4"

Width (W): 3-9/16"

Height (H): 2-1/4"

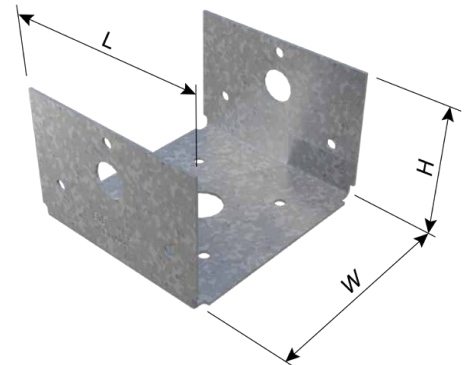
CDDA66

Post Size: 6 x 6

Length (L): 5"

Width (W): 5-9/16"

Height (H): 2-1/2"



CODE REPORT

- DrJ Engineering LLC TER-2211-03

Deck Anchors (CDDA44)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Substrate		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.165" x 3-1/2" Nail	6	0.165" x 3"-1/2 Nail	4	345	475	530	625	655	655
Lateral (F1)					495	680	580	745	625	745
Uplift	#9 x 3" Screw	6	#9 x 3" Screw	4	220	315	335	380	410	410
Lateral (F1)					280	445	325	520	350	560

Deck Anchor (CDDA66)

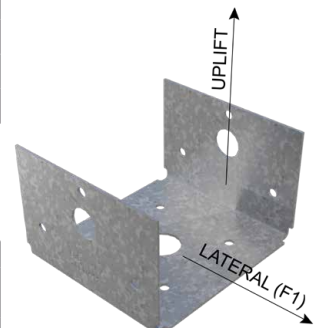
Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Substrate		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.165" x 3-1/2" Nail	6	0.165" x 3"-1/2 Nail	4	250	250	380	380	430	430
Lateral (F1)					495	795	580	925	625	1000
Uplift	#9 x 3" Screw	6	#9 x 3" Screw	4	220	230	295	295	315	315
Lateral (F1)					280	445	325	520	350	560

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 Allowable loads shall be selected based on the load duration as permitted by the applicable building code.

2 F₁ direction is parallel to the substrate member. (see illustration)



Adjustable Anchors

The fully adjustable post base with stand-off plate secures wood posts to concrete surfaces in new or remodeling applications where damp rot is a problem. The 1" stand-off plate provides flat end bearing area for posts and keeps the post end 1-3/16" above the surface moisture. Bending slot on post base provides greater ease of installation.

MATERIAL SPECIFICATIONS

CDAA44

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

CDAA46, CDAA66

Gauge: 16ga (54mil)

Design Thickness: 0.0566 inches

Standoff Plate

Gauge: 14ga (68mil)

Design Thickness: 0.0713 inches

Coating: G90 (Z275) hot-dipped galvanized coating (G185 available)

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

CDAA44

Post Size: 4 x 4

Length (L): 3-9/16"

Width (W): 3-9/16"

Height (H): 2-9/32"

CDAA46

Post Size: 4 x 6

Length (L): 3-9/16"

Width (W): 5-1/2"

Height (H): 2-7/8"

CDAA66

Post Size: 6 x 6

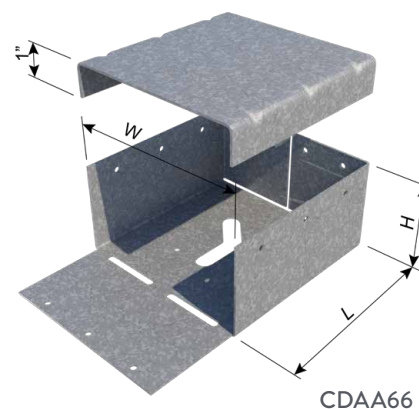
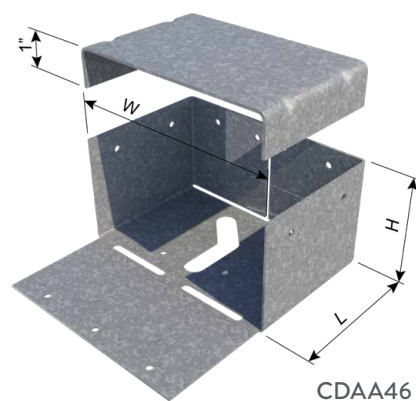
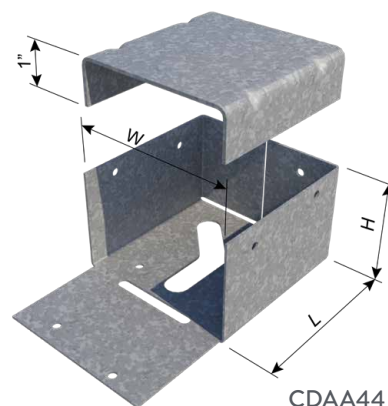
Length (L): 5-1/2"

Width (W): 5-1/2"

Height (H): 2-13/16"

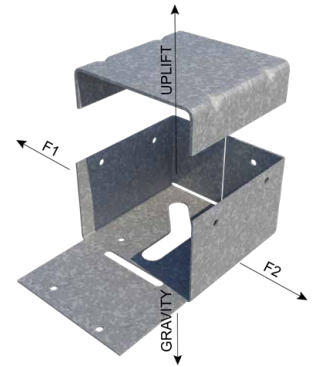
CODE REPORT

- DrJ Engineering LLC TER-2211-03



Adjustable Anchors (CDAA44)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Concrete		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.148" x 3" Nail	8	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	510	510	575	575	590	590
Gravity					2170	2170	2950	2950	2970	2970
Lateral (F1)					285	285	330	330	355	355
Lateral (F2)					430	430	500	500	540	540
Uplift	#9 x 3" Screw	8	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	375	375	435	435	470	470
Gravity					2150	2150	2940	2940	3105	3105
Lateral (F1)					365	365	425	425	555	555
Lateral (F2)					370	370	430	430	465	465



Adjustable Anchors (CDAA46)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Concrete		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.148" x 3" Nail	11	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	790	790	915	915	990	990
Gravity					3035	3035	4130	4130	4200	4200
Lateral (F1)					315	315	365	365	390	390
Lateral (F2)					555	555	640	640	695	695
Uplift	#9 x 3" Screw	11	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	595	595	685	685	745	745
Gravity					3225	3225	4415	4415	4545	4545
Lateral (F1)					335	335	390	390	535	535
Lateral (F2)					370	370	425	425	460	460

Adjustable Anchors (CDAA66)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Concrete		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.148" x 3" Nail	13	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	725	725	835	835	855	855
Gravity					4415	4415	6035	6035	6035	6035
Lateral (F1)					995	995	1150	1150	1235	1235
Lateral (F2)					875	875	995	995	995	995
Uplift	#9 x 3" Screw	13	1/2" Bolt with 3" x 3" x 3/16" Commodity Washer	1	575	575	665	665	715	715
Gravity					3890	3890	5340	5340	5435	5435
Lateral (F1)					575	575	665	665	840	840
Lateral (F2)					645	645	745	745	805	805

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 Allowable loads shall be selected based on the load duration as permitted by the applicable building code.

2 F₁ direction is parallel to the substrate member. (see illustration)

3 F₂ direction is parallel to the substrate member. (see illustration)

Post Beam Cap

The CDPB post beam cap secures wood posts to a wood beam. Eliminates the need for toe-nailing a wood beam to a post or column.

MATERIAL SPECIFICATIONS

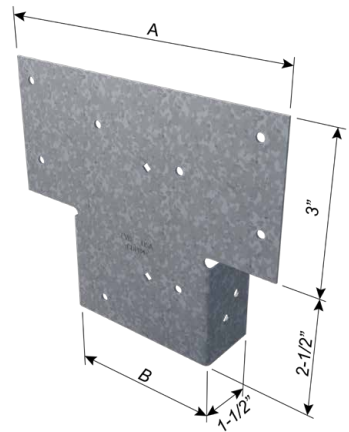
- Gauge: 18ga (43mil)
- Design Thickness: 0.0451 inches
- Coating: G90 (Z275) hot-dipped galvanized coating (G185 available)
- Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

- Post Size: 4x
- Overall Width (A): 6-7/16"
- Post Width (B): 3-9/16"

CODE REPORT

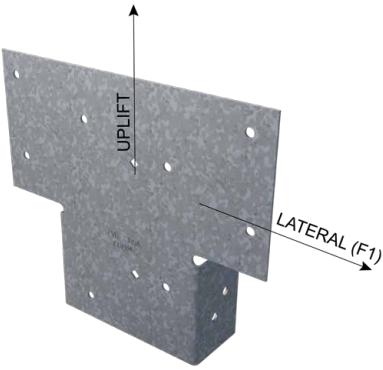
- DrJ Engineering LLC TER-2211-03



Post Beam Cap (CDPB4)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Beam		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.162" x 3-1/2" Nail	8 (4 per connector)	0.162" x 3-1/2" Nail	8 (4 per connector)	675	710	1040	1100	1210	1395
Lateral (F1)					1160	1160	1115	1160	960	1005
Uplift		14 (7 per connector)		14 (7 per connector)	1180	1215	1820	1875	2115	2380
Lateral (F1)					1270	1270	1475	1475	1550	1550
Uplift	#9 x 3" Screw	8 (4 per connector)	#9 x 3" Screw	8 (4 per connector)	620	995	960	1535	1220	1950
Lateral (F1)					1105	1410	1285	1445	1395	1455
Uplift		14 (7 per connector)		14 (7 per connector)	1085	1740	1680	2685	2130	3410
Lateral (F1)					1515	1515	1760	1760	1905	1905

- Notes:
- For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N
 - 1 Allowable loads shall be selected based on the load duration as permitted by the applicable building code.
 - 2 Lateral F₁ direction is parallel to beam. (see illustration)
 - 3 CDPB4 post beam caps must be installed in pairs.



Post Cap

The CDPC is a one-piece designed post cap with no spot welds as possible weak points. Acts as both a post cap and post base.

MATERIAL SPECIFICATIONS

Gauge: 18ga (43mil)

Design Thickness: 0.0451 inches

Coating: G90 (Z275) hot-dipped galvanized coating (G185 available)

Yield Strength: Structural Grade 50 Type H (ST50H), 50ksi (340 MPa)

PRODUCT DIMENSIONS

CDPC44

Post Size: 4 x 4

A: 3-1/4"

B: 3-1/4"

C: 3-9/16"

D: 3-9/16"

H: 3"

CDPC66

Post Size: 6 x 6

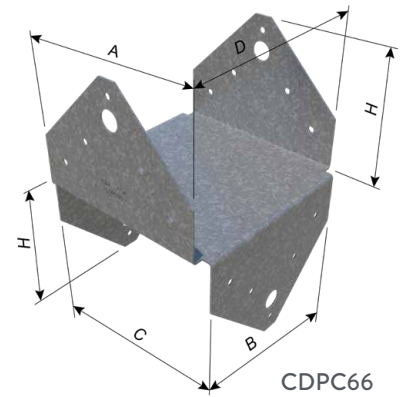
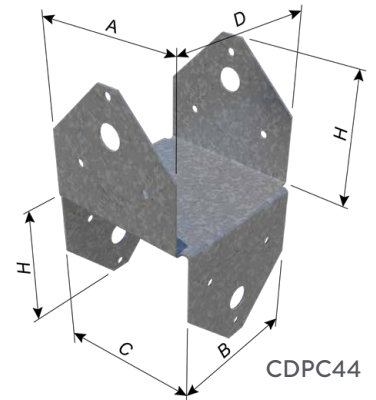
A: 5"

B: 5"

C: 5-1/2"

D: 5-1/2"

H: 3-3/4"



CODE REPORT

- DrJ Engineering LLC TER-2211-03

Post Cap (CDPC44)

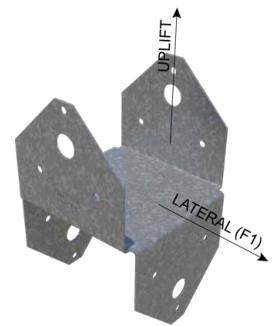
Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Beam		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.165" x 3-1/2" Nail	6	0.165" x 3-1/2" Nail	6	440	440	680	680	795	795
Lateral (F ₁)					525	525	610	610	665	665
Uplift	#9 x 3" Screw	6	#9 x 3" Screw	6	325	340	485	510	525	550
Lateral (F ₁)					420	490	485	570	525	620

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 Allowable loads shall be selected based on the load duration as permitted by the applicable building code.

2 F₁ direction is parallel to the substrate member. (see illustration)



Post Cap (CDPC66)

Load Orientation	Fasteners				Allowable Loads (lbs)					
	Post		Beam		Spruce Pine-Fir (0.42 Specific Gravity)		Douglas Fir-Larch (0.50 Specific Gravity)		Southern Pine (0.55 Specific Gravity)	
	Fastener	Qty	Fastener	Qty	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60	C _D = 1.00	C _D = 1.60
Uplift	0.165" x 3-1/2" Nail	10	0.165" x 3-1/2" Nail	10	855	905	1040	1040	1040	1040
Lateral (F ₁)					1245	1330	1445	1545	1565	1640
Uplift	#9 x 3" Screw	10	#9 x 3" Screw	10	545	585	720	720	780	780
Lateral (F ₁)					700	1010	810	1170	875	1265

Notes:

For SI: 1 inch = 25.4 mm, 1 pound (lb) = 4.45 N

1 Allowable loads shall be selected based on the load duration as permitted by the applicable building code.

2 F₁ direction is parallel to the substrate member. (see illustration)

A

Adjustable Anchors 66-67
 CDAA44
 CDAA46
 CDAA66

Adjustable Strap Hangers 50-53

CDSTH29
 CDSTH29-2
 CDSTH418
 CDSTH422
 CDSTHI1.81-22
 CDSTHI222
 CDSTHI322
 CDSTHI422

D

Deck Anchors 65
 CDDA44
 CDDA66

Double Shear Face-Mount Hangers -

CDMDS Series 46-49
 CDMDS26
 CDMDS26-2
 CDMDS26-3
 CDMDS28
 CDMDS28-2
 CDMDS28-3
 CDMDS28-4
 CDMDS210
 CDMDS210-2
 CDMDS210-3
 CDMDS210-4
 CDMDS1.81-10
 CDMDS46
 CDMDS48
 CDMDS410

Double Shear Face-Mount Hangers -

CDLDS Series 41-45
 CDLDS24
 CDLDS24-2
 CDLDS26
 CDLDS26-2
 CDLDS26-3
 CDLDS28
 CDLDS28-2
 CDLDS28-3
 CDLDS210
 CDLDS210-2
 CDLDS210-3
 CDLDS212-2
 CDLDS44
 CDLDS46
 CDLDS48
 CDLDS410
 CDLDS412

F

Fence Brackets 33
 CDFB24G

Framing Angles 12-13

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Clip ExpressSM CODE APPROVALS AND PERFORMANCE STANDARDS

ClarkDietrich Clip Express products meet or exceed these applicable performance standards.

AISI S100-16 (2020) w/S2-20: North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition

ASTM International

Material specifications

ASTM A1003 (NS33, ST33H, ST50H)

Corrosion Protection standards

ASTM A653 Zinc-coated hot-dip process

Allowable loads for ClarkDietrich connectors in this catalog are determined by calculations and test criteria established by industry, such as ICC-ES Acceptance Criteria, IAPMO UES Evaluation Criteria, DrJ Engineering, LLC and ASTM test standards.

ClarkDietrich connectors are evaluated in accordance with ICC-ES AC13-Acceptance Criteria. Evaluation is based on a minimum of three static load tests in wood assemblies. The published allowable load is the lower of the tested ultimate with a safety factor of 3, load at 1/8" deflection or the NDS fastener calculation limits.

For additional information regarding ClarkDietrich testing, products or reports, go to clarkdietrich.com or contact ClarkDietrich.

Code Reference	Code Evaluation Agency	Building Code Coverages
IBC IRC	ICC-ES IAPMO UES DrJ Engineering, LLC	International Building Code (IBC) International Residential Code (IRC)

ClarkDietrich is a proud member of the Steel Framing Industry Association (SFIA). Check the updated list of Certified Production Facilities at Intertek's website at www.intertek.com.



Warranty

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LOCATIONS

Clip Express Manufacturing and Sales Locations

p. 866-638-1908

CALIFORNIA Sacramento

GEORGIA McDonough

OHIO Warren-East

TEXAS Dallas

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