

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	Stud		C _D = 1.00	C _D = 1.15	C _D = 1.25	C _D = 1.60
								Qty.	Qty.					
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

- 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 See images for hanger dimension definitions of W, L1 and L2.
- 4 Connection type: S-to-P = Stud-to-Plate, C-to-B = Column-to-Beam.
- 5 Refer to Section 3.2.3 of ESR-5079 for nail actual sizes and the required minimum physical properties. R_{HF}.
- 6 F₁ is the load parallel to the plate and F₂ is the load perpendicular to the plate.

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								Qty.	Qty.					
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

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- 2 The tabulated allowable loads are for installations on wood members complying with Section 3.2.2 of the ESR-5079 report.
- 3 See images for hanger dimension definitions of W, L1 and L2.
- 4 Connection type: S-to-P = Stud-to-Plate, C-to-B = Column-to-Beam.
- 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 the beam and F₂ is the load perpendicular to the beam.

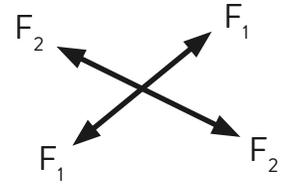
Light and Medium Framing Angle



CDFA33



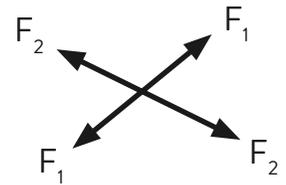
CDFA33 Installation



CDFA44



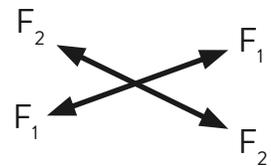
CDFA44 Installation



CDFA66



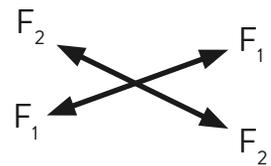
CDFA66 Installation



CDFA88

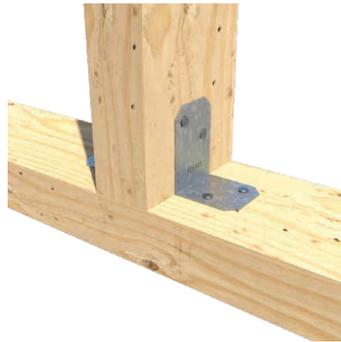


CDFA88 Installation

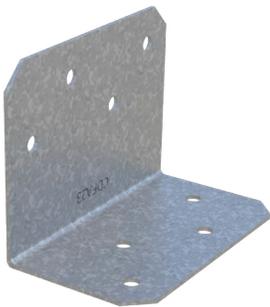
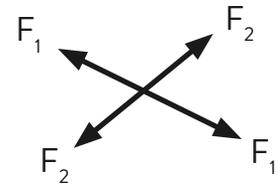




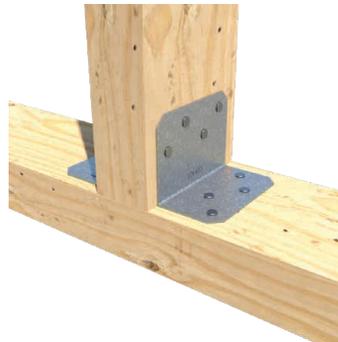
CDFA21



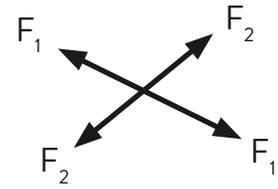
CDFA21 Installation



CDFA23



CDFA23 Installation



CDFA24



CDFA24 Installation



CDFA311



CDFA311 Installation