Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2211-03

Issue Date: May 30, 2024

Revision Date: June 2, 2025

Subject to Renewal: July 1, 2026

ClarkDietrich® Post Cap and Base Products

Trade Secret Report Holder:

ClarkDietrich® Building Systems, LLC

Phone: 513-870-1100 Website: www.clarkdietrich.com Email: info@clarkdietrich.com

CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES Section: 06 05 23 - Wood, Plastic, and Composite Fastenings

1 Innovative Products Evaluated[1]

1.1 ClarkDietrich Post Cap and Base Products:

1.1.1 CDPB4

1.1.2 CDAA44, CDAA46, and CDAA66 (includes a stand-off plate)

1.1.3 CDDA44, CDDA46, and CDDA66

1.1.4 CDPC44 and CDPC66

2 Product Description and Materials

2.1 The innovative products evaluated in this report are shown in **Figure 1** through **Figure 4**, and are described in **Table 1** and **Table 2**.

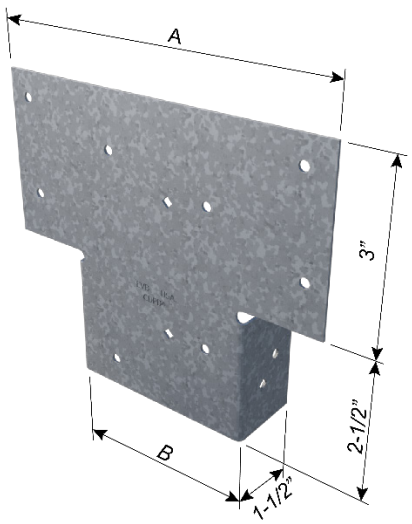

Figure 1. CDPB4 Post Beam Cap

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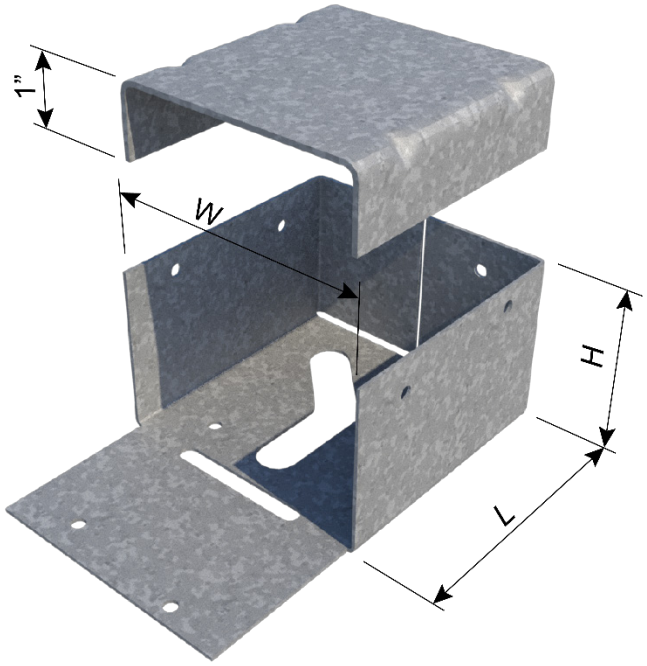

Figure 2. CDAA44, CDAA46 and CDAA66 Adjustable Anchors

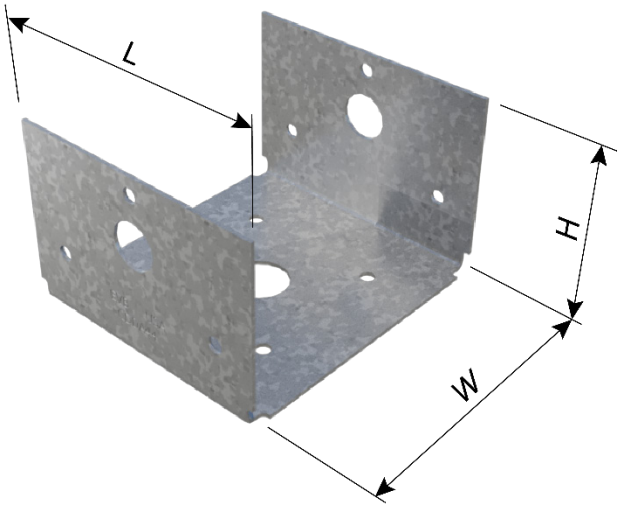

Figure 3. CDDA44, CDDA46 and CDDA66 Deck Anchors

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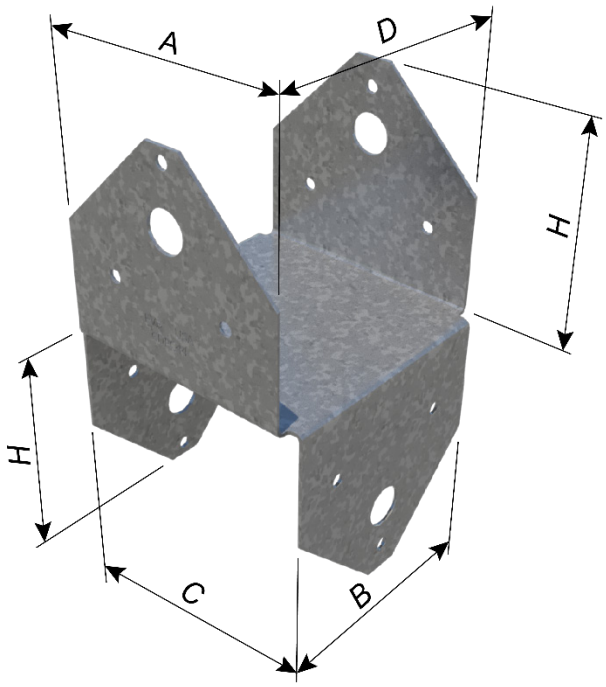

Figure 4. CDPC44 and CDPC66 Post Cap

Table 1. ClarkDietrich Post Cap and Base Products Information

Product	Description	Use	Materials	Dimensions
CDPB4	Post beam caps that may be installed before, during, or after erecting beams. These caps shall be installed in pairs.	Post Beam Cap for 4 x 4, 4 x 6, and 4 x 8 posts	0.0428" (18-gauge galvanized cold formed steel)	See **Figure 1** A: $6^{7}/_{16}$" (164 mm) B: $3^{9}/_{16}$" (90 mm)
CDAA44	Adjustable post base with moisture protection by keeping post end $1^{3}/_{16}$" above anchoring surface	Adjustable Anchor for 4 x 4 post		See **Figure 2** Length: $3^{9}/_{16}$" (90 mm) Width: $3^{9}/_{16}$" (90 mm) Height: $2^{9}/_{32}$" (58 mm)
CDAA46		Adjustable Anchor for 4 x 6 post	0.0538" (16-gauge galvanized cold formed steel)	See **Figure 2** Length: $3^{9}/_{16}$" (90 mm) Width: $5^{1}/_{2}$" (140 mm) Height: $2^{7}/_{8}$" (73 mm)
CDAA66		Adjustable Anchor for 6 x 6 post		See **Figure 2** Length: $5^{1}/_{2}$" (140 mm) Width: $5^{1}/_{2}$" (140 mm) Height: $2^{13}/_{16}$" (71 mm)
CDAAXXP Stand-off Plate	Placed inside of adjustable post bases to keep the post above the anchoring surface and provide a flat surface	For use with Adjustable Anchor CDAA series	0.0677" (14-gauge galvanized cold formed steel)	See **Figure 2** Length and width of Standoff Plate fits within the cavity of CDAA44, CDAA46, and CDAA66. Height: 1" (25 mm)

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Table 1. ClarkDietrich Post Cap and Base Products Information

Product	Description	Use	Materials	Dimensions
CDDA44	Deck anchors that eliminate the need for toenailing of the post or column. The bottom bolt hole can be used to set into concrete	Deck Anchor for 4 x 4 post	0.0428" (18-gauge galvanized cold formed steel)	See **Figure 3** Length: $3^1/_4$" (83 mm) Width: $3^9/_{16}$" (90 mm) Height: $2^1/_4$" (57 mm)
CDDA46		Deck Anchor for 4 x 6 post		See **Figure 3** Length: 3" (76 mm) Width: $5^9/_{16}$" (141 mm) Height: $2^1/_2$" (64 mm)
CDDA66		Deck Anchor for 6 x 6 post		See **Figure 3** Length: 5" (127 mm) Width: $5^9/_{16}$" (141 mm) Height: $2^1/_2$" (64 mm)
CDPC44	One piece designed post cap with no spot welds as possible weak points. Acts as both a post cap and post base.	Post Cap for 4 x 4 post		See **Figure 4** A: $3^1/_4$" (83 mm) B: $3^1/_4$" (83 mm) C: $3^9/_{16}$" (90 mm) D: $3^9/_{16}$" (90 mm) H: 3" (76 mm)
CDPC66		Post Cap for 6 x 6 post		See **Figure 4** A: 5" (127 mm) B: 5" (127 mm) C: $5^1/_2$" (140 mm) D: $5^1/_2$" (140 mm) H: $3^3/_4$" (95 mm)
SI: 1 in = 25.4 mm				

2.2 All thicknesses listed in **Table 1** are the minimum base metal thickness for the gauge of steel listed for each product. **Table 2** provides a cross reference for determining the design thickness for each gauge of steel.

Table 2. Cross-Reference for the Design/Thickness of Steel Based on Minimum Base-Metal Thickness of Various Steel Gauges

Design Thickness, Inch (gauge)	Minimum Base-Metal Thickness, inch (mm)
0.0713 (14)	0.0677 (1.7 mm)
0.0566 (16)	0.0538 (1.4 mm)
0.0451 (18)	0.0428 (1.1 mm)
SI: 1 in = 25.4 mm	

2.3 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.

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3 Definitions[2]

3.1 New Materials[3] are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.[4] The design strength and permissible stresses shall be established by tests[5] and/or engineering analysis.[6]

3.2 Duly authenticated reports[7] and research reports[8] are test reports and related engineering evaluations that are written by an approved agency[9] and/or an approved source.[10]

3.2.1 These reports utilize intellectual property and/or trade secrets to create public domain material properties for commercial end-use.

3.2.1.1 This report protects confidential Intellectual Property and trade secretes under the regulation, 18.US.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).[11]

3.3 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.

3.4 An approved source is *"approved"* when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.[12]

3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.

3.5.1 The Center for Building Innovation (CBI) is ANAB[13] ISO/IEC 17025 and ISO/IEC 17020 accredited.

3.6 The regulatory authority shall enforce[14] the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing[15] stating the nonconformance and the path to its cure.

3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.[16]

3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.[17] Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,[18] and can be used in any country that is an MLA signatory found at this link: https://iaf.nu/en/recognised-abs/

3.9 Approval equity is a fundamental commercial and legal principle.[19]

4 Applicable Standards for the Listing; Regulations for the Regulatory Evaluation[20]

4.1 *Standards*

4.1.1 *AISI S100: North American Specification for the Design of Cold-Formed Steel Structural Members*

4.1.2 *AISI S913: Test Standard for Determining the Strength and Deformation Behavior of Hold-Downs Attached to Cold-Formed Steel Structural Framing*

4.1.3 *ANSI/AISC 360: Specification for Structural Steel Buildings*

4.1.4 *ANSI/AWC NDS: National Design Specification (NDS) for Wood Construction*

4.1.5 *ASTM A370: Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

4.1.6 *ASTM F1575: Standard Test Method for Determining Bending Yield Moment of Nails*

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4.2 *Regulations*

4.2.1 *IBC – 15, 18, 21, 24: International Building Code®*

4.2.2 *IRC – 15, 18, 21, 24: International Residential Code®*

4.2.3 *CBC—19, 22: California Building Code[21] (Title 24, Part 2)*

4.2.4 *CRC—19, 22: California Residential Code[21] (Title 24, Part 2.5)*

5 Listed[22]

5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (i.e., CBI), an approved agency (i.e., CBI and DrJ), and/or and approved source (i.e., DrJ), or other organization(s) concerned with product evaluation (i.e., DrJ), that maintains periodic inspection (i.e., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 *General*

6.1.1 ClarkDietrich Post Cap and Base Products are used to resist uplift, lateral and/or gravity loads imposed on connections in light-frame construction per IBC Section 2308, and heavy timber construction per IBC Section 2304.11.

6.1.2 ClarkDietrich Post Cap and Base Products may be used as connectors for wood framing in accordance with IBC Section 2304.10 and IRC Section R301.

6.1.3 The RDP for the project shall determine which type of product is appropriate using **Table 3** through **Table 6**.

6.1.3.1 See **Table 3** for allowable uplift and lateral loads for CDPB4 Post Beam Cap

6.1.3.2 See **Table 4** for allowable uplift and lateral loads for CDAA44, CDAA46, and CDAA66 Adjustable Anchors

6.1.3.3 See **Table 5** for allowable uplift and lateral loads for CDDA44, CDDA46, and CDDA66 Deck Anchors

6.1.3.4 See **Table 6** for allowable uplift and lateral loads for CDPC44, and CDPC66 Post Caps

6.1.4 Tabulated allowable design loads for uplift and lateral resistance in **Table 3** through **Table 6** are based on a load duration factor, C_D, of 1.0 and 1.6.

6.1.4.1 Per NDS Section 11.3.2, connection design properties may be adjusted by a load duration factor (i.e., 1.6) listed in NDS Table 2.3.2.

6.1.4.1.1 These loads are generally not combined with other loads (i.e., dead, live, etc.)

6.1.5 Tabulated allowable loads in **Section 6** apply to wood used in dry conditions and where sustained temperatures are below 100° F.

6.1.5.1 When connectors are installed in conditions exposed to temperatures exceeding 100° F, the allowable loads shall be adjusted by the applicable temperature factor (C_t) specified in NDS Table 11.3.4.

6.1.5.2 When connectors are installed in wood having a moisture content of greater than nineteen percent (19%), or sixteen percent (16%) for engineered wood products, or where wet service conditions are expected over the life of the connector, the allowable loads must shall be adjusted by the wet service factor (CM) specified in NDS Table 11.3.3.

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Table 3. Allowable Loads and Fastener Schedules for CDPB4 Post Beam Cap[3]

Part Number	Minimum Thickness, inch (gauge)	Load Orientation[2]	Fasteners				Allowable Loads[1] (lb)					
							Wood Species (Specific Gravity)					
			Post		Beam		HF/SPF (0.42)		DF-L (0.50)		SP (0.55)	
			Fastener	Qty	Fastener	Qty	Load Duration, C_D					
							1.0	1.6	1.0	1.6	1.0	1.6
CDPB4	0.0428 (18)	Uplift	0.162" x 3½" Nail	8 (4 per connector)	0.162" x 3½" Nail	8 (4 per connector)	675	710	1,040	1,100	1,210	1,395
		Lateral – F1					1,160	1,160	1,115	1,160	960	1,005
		Uplift		14 (7 per connector)		14 (7 per connector)	1,180	1,215	1,820	1,875	2,115	2,380
		Lateral – F1					1,270	1,270	1,475	1,475	1,550	1,550
		Uplift	#9 x 3" Screw	8 (4 per connector)	#9 x 3" Screw	8 (4 per connector)	620	995	960	1,535	1,220	1,950
		Lateral – F1					1,105	1,410	1,285	1,455	1,395	1,455
		Uplift		14 (7 per connector)		14 (7 per connector)	1,085	1,740	1,680	2,685	2,130	3,410
		Lateral – F1					1,515	1,515	1,760	1,760	1,905	1,905

SI: 1 in = 25.4 mm, 1 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.
3. CDPB4 post beam caps shall be installed in pairs.

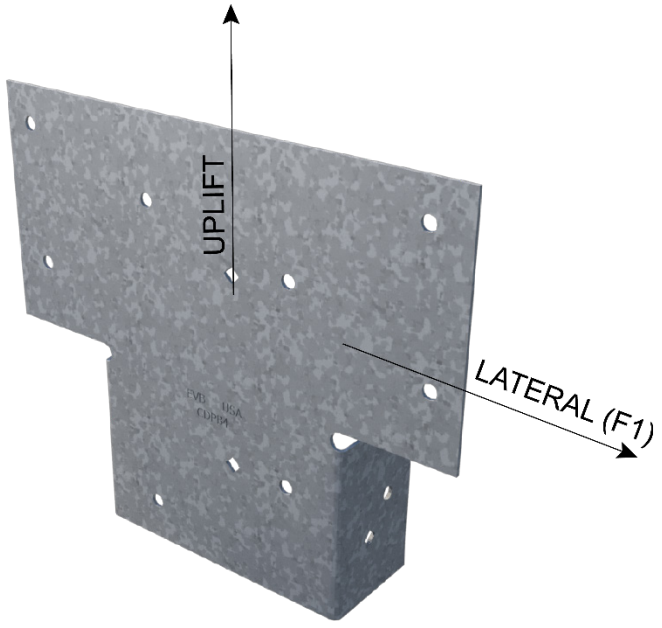

Figure 5. Load Diagram for CDPB4

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Table 4. Allowable Loads and Fastener Schedules for CDAA44, CDAA46 and CDAA66 Adjustable Anchors

Part Number	Minimum Thickness, inch (gauge)	Load Orientation[2]	Fasteners				Allowable Loads[1] (lb)					
							Wood Species (Specific Gravity)					
			Post		Anchor Point		HF/SPF (0.42)		DF-L (0.50)		SP (0.55)	
			Fastener	Qty	Fastener	Qty	Load Duration, C_D					
							1.0	1.6	1.0	1.6	1.0	1.6
CDAA44	0.0428 (18-gauge)	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					2,170	2,170	2,950	2,950	2,970	2,970
		Lateral – F1					285	285	330	330	355	355
		Lateral – F2					430	430	500	500	540	540
		Uplift	#9 x 3" Screw				375	375	435	435	470	470
		Gravity					2,150	2,150	2,940	2,940	3,105	3,105
		Lateral – F1					365	365	425	425	555	555
		Lateral – F2					370	370	430	430	465	465
CDAA46	0.0538 (16-gauge)	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					3,035	3,035	4,130	4,130	4,200	4,200
		Lateral – F1					315	315	365	365	390	390
		Lateral – F2					555	555	640	640	695	695
		Uplift	#9 x 3" Screw				595	595	685	685	745	745
		Gravity					3,225	3,225	4,415	4,415	4,545	4,545
		Lateral – F1					335	335	390	390	535	535
		Lateral – F2					370	370	425	425	460	460
CDAA66	0.0538 (16-gauge)	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					4,415	4,415	6,035	6,035	6,035	6,035
		Lateral – F1					995	995	1,150	1,150	1,235	1,235
		Lateral – F2					875	875	995	995	995	995
		Uplift	#9 x 3" Screw				575	575	665	665	715	715
		Gravity					3,890	3,890	5,340	5,340	5,435	5,435
		Lateral – F1					575	575	665	665	840	840
		Lateral – F2					645	645	745	745	805	805

SI: 1 in = 25.4 mm, 1 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 substrate member.
3. F2 direction is parallel to the substrate member.

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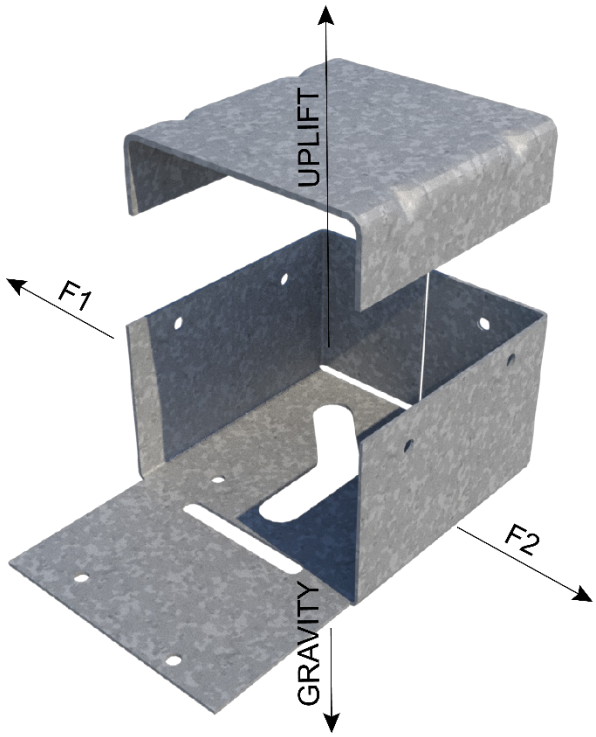

Figure 6. Load Diagram for CDAA Adjustable Anchors

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Table 5. Allowable Loads and Fastener Schedules for CDDA44, CDDA46 and CDDA66 Deck Anchors

Part Number	Minimum Thickness, inch (gauge)	Load Orientation[2]	Fasteners				Allowable Loads[1] (lb)					
							Wood Species (Specific Gravity)					
			Post		Substrate		HF/SPF (0.42)		DF-L (0.50)		SP (0.55)	
			Fastener	Qty	Fastener	Qty	Load Duration, C_D					
							1.0	1.6	1.0	1.6	1.0	1.6
CDDA44	0.0428 (18-gauge)	Uplift	0.165" x 3½" Nail	6	0.165" x 3½" Nail	4	345	475	530	625	655	655
		Lateral – F1					495	680	580	745	625	745
		Uplift	#9 x 3" Screw		#9 x 3" Screw		220	315	335	380	410	410
		Lateral – F1					280	445	325	520	350	560
CDDA46		Uplift	0.165" x 3½" Nail		0.165" x 3½" Nail		160	160	250	250	300	300
		Lateral – F1					495	700	580	810	625	880
		Uplift	#9 x 3" Screw		#9 x 3" Screw		170	170	215	215	235	235
		Lateral – F1					280	445	325	520	350	560
CDDA66		Uplift	0.165" x 3½" Nail		0.165" x 3½" Nail		250	250	380	380	430	430
		Lateral – F1					495	795	580	925	625	1,000
		Uplift	#9 x 3" Screw		#9 x 3" Screw		220	230	295	295	315	315
		Lateral – F1					280	445	325	520	350	560

SI: 1 in = 25.4 mm, 1 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 substrate member.

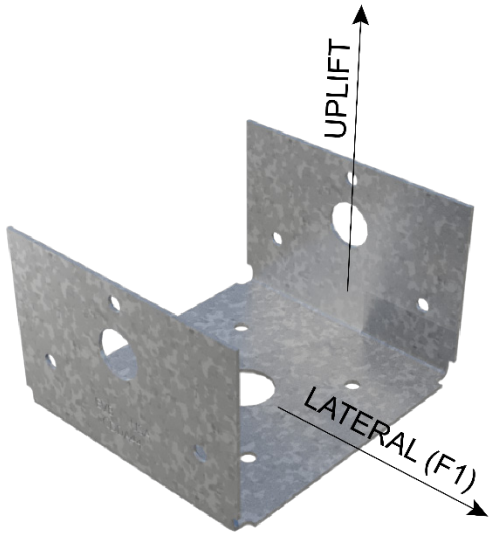

Figure 7. Load Diagram for CDDA Deck Anchors

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Table 6. Allowable Loads and Fastener Schedules for CDPC44 and CDPC66 Post Caps

Part Number	Minimum Thickness, inch (gauge)	Load Orientation[2]	Fasteners				Allowable Loads[1] (lb)					
							Wood Species (Specific Gravity)					
			Post		Beam		HF/SPF (0.42)		DF-L (0.50)		SP (0.55)	
			Fastener	Qty	Fastener	Qty	Load Duration, C_D					
							1.0	1.6	1.0	1.6	1.0	1.6
CDPC44	0.0428 (18)	Uplift	0.165" x 3½" Nail	6	0.165" x 3½" Nail	6	440	440	680	680	795	795
		Lateral – F1					525	525	610	610	665	665
		Uplift	#9 x 3" Screw		#9 x 3" Screw		325	340	485	510	525	550
		Lateral – F1					420	490	485	570	525	620
CDPC66		Uplift	0.165" x 3½" Nail	10	0.165" x 3½" Nail	10	855	905	1,040	1,040	1,040	1,040
		Lateral – F1					1,245	1,330	1,445	1,545	1,565	1,640
		Uplift	#9 x 3" Screw		#9 x 3" Screw		545	585	720	720	780	780
		Lateral – F1					700	1,010	810	1,170	875	1,265

SI: 1 in = 25.4 mm, 1 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 substrate member.

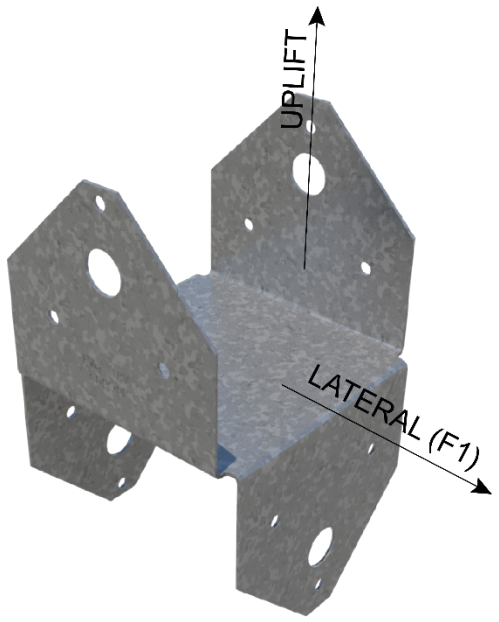

Figure 8. Load Diagram for CDPC Post Caps

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6.2 Where the application falls outside of the performance evaluation, conditions of use, and/or installation requirements set forth herein, alternative techniques shall be permitted in accordance with accepted engineering practice and experience. This includes but is not limited to the following areas of engineering: mechanics or materials, structural, building science, and fire science.

7 Certified Performance[23]

7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.[24]

7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.[25]

8 Regulatory Evaluation and Accepted Engineering Practice

8.1 ClarkDietrich Post Cap and Base Products were evaluated to determine the following:

8.1.1 Structural performance of connectors under lateral, uplift, and gravity load conditions.

8.1.2 Performance for use in buildings in accordance with the standards and codes listed in **Section 4**.

8.2 Any building code, regulation and/or accepted engineering evaluations (i.e., research reports, duly authenticated reports, etc.) that are conducted for this Listing were performed by DrJ, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified[26] to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,[27] respectively.

8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.

8.4 Any regulation specific issues not addressed in this section are outside the scope of this report.

9 Installation

9.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.

9.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.

9.3 *Installation Procedure*

9.3.1 Installation of these products shall be used with wood framing of appropriate dimensions (see **Table 1**).

9.3.2 ClarkDietrich Post Cap and Base Products shall be attached using the fasteners as indicated in the product specific table in **Section 6**.

9.3.3 Completed installation shall have the product flush against the wood framing.

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10 Substantiating Data

10.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:

10.1.1 Tensile strength testing in accordance with ASTM A370

10.1.2 Gravity, uplift, and lateral load testing in accordance with AISI S913

10.1.3 Bending yield testing in accordance with ASTM F1575

10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.

10.3 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.

10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.

10.5 *Testing and Engineering Analysis:*

10.5.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.[28]

10.6 Where additional condition of use and/or regulatory compliance information is required, please search for ClarkDietrich Post Cap and Base Products on the DrJ Certification website.

11 Findings

11.1 As outlined in **Section 6**, ClarkDietrich Post Cap and Base Products have performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to its specified purpose.

11.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, ClarkDietrich Post Cap and Base Products shall be approved for the following applications:

11.2.1 For use as structural connectors for wood structures where the design values listed in **Section 6** meet the requirements of the building design.

11.3 Unless exempt by state statute, when ClarkDietrich Post Cap and Base Products are to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.

11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from ClarkDietrich® Building Systems, LLC.

11.5 IBC Section 104.2.3 (IRC Section R104.2.2 and IFC Section 104.2.3[29] are similar) in pertinent part state:

> **104.2.3 Alternative Materials, Design and Methods of Construction and Equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative is not specifically prohibited by this code and has been approved.

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11.6 **Approved:**[30] Building regulations require that the building official shall accept duly authenticated reports.[31]

11.6.1 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited.

11.6.2 An approved source is *"approved"* when an RDP is properly licensed to transact engineering commerce.

11.6.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.

11.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.

11.8 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.[32]

12 Conditions of Use

12.1 Material properties shall not fall outside the boundaries defined in **Section 6**.

12.2 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the resistance to the applied load shall not exceed the ability of the defined properties to resist those loads using the principles of accepted engineering practice.

12.3 As listed herein, ClarkDietrich Post Cap and Base Products shall not:

12.3.1 Exceed the resistance assigned to the products as defined in this report.

12.4 Use of these ClarkDietrich Post Cap and Base Products in contact with fire-retardant treated wood or pressure preservative treated wood is outside the scope of this report.

12.5 Structural framing members connected with the ClarkDietrich Post Cap and Base Products listed in **Section 1.1** shall be designed in accordance with the requirements of their specific design standards/specifications as referenced in the building code adopted by the jurisdiction in which the project is to be constructed.

12.6 Each of the ClarkDietrich Post Cap and Base Products that are exposed directly to weather or subject to salt corrosion in coastal areas as determined by the local building official, shall be protected in accordance with the building code adopted by the jurisdiction in which the project is to be constructed.

12.7 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:

12.7.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.

12.7.2 This report and the installation instructions shall be submitted at the time of permit application.

12.7.3 These innovative products have an internal quality control program and a third-party quality assurance program.

12.7.4 At a minimum, these innovative products shall be installed per **Section 9**.

12.7.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.

12.7.6 These innovative products have an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.

12.7.7 The application of these innovative products in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.

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12.8 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *"the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3"*, all of IBC Section 104, and IBC Section 105.3.

12.9 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).

12.10 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

13 Identification

13.1 The innovative products listed in **Section 1.1** are identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.

13.2 Additional technical information can be found at www.clarkdietrich.com.

14 Review Schedule

14.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.

14.2 For information on the status of this report, please contact DrJ Certification.

15 Approved for Use Pursuant to United States and International Legislation Defined in Appendix A

15.1 ClarkDietrich Post Cap and Base Products (CDPB4, CDAA44, CDAA46, CDAA66, CDDA44, CDDA46, CDDA66, CDPC44, and CDPC66) are included in this report published by an approved agency that is concerned with evaluation of products or services, maintains periodic inspection of the production of listed materials or periodic evaluation of services. This report states either that the material, product, or service meets recognized standards or has been tested and found suitable for a specified purpose. This report meets the legislative intent and definition of being acceptable to the AHJ.

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Issue Date: May 30, 2024
Subject to Renewal: July 1, 2026

CBC and CRC Supplement to Report Number 2211-03

REPORT HOLDER: ClarkDietrich® Building Systems, LLC

1 Evaluation Subject

1.1 ClarkDietrich Post Cap and Base Products:

1.1.1 CDPB4

1.1.2 CDAA44, CDAA46 and CDAA66 (includes a stand-off plate)

1.1.3 CDDA44, CDDA46 and CDDA66

1.1.4 CDPC44 and CDPC66

2 Purpose and Scope

2.1 Purpose

2.1.1 The purpose of this Report Supplement is to show ClarkDietrich Post Cap and Base Products, recognized in Report Number 2211-03 have also been evaluated for compliance with the codes listed below.

2.2 *Applicable Code Editions*

2.2.1 *CBC—19, 22: California Building Code (Title 24, Part 2)*

2.2.2 *CRC—19, 22: California Residential Code (Title 24, Part 2.5)*

3 Conclusions

3.1 ClarkDietrich Post Cap and Base Products, described in Report Number 2211-03, comply with the CBC and CRC and are subject to the conditions of use described in this supplement.

3.2 Where there are variations between the IBC and IRC and the CBC and CRC applicable to this report, they are listed here:

3.2.1 CBC Section 104.11 replaces IBC Section 104.11.

3.2.2 CBC Section 1707.1 replaces IBC Section 1707.1.

3.2.3 CRC Section R104.11 replaces IRC Section R104.11.

4 Conditions of Use

4.1 ClarkDietrich Post Cap and Base Products, described in Report Number 2211-03, must comply with all of the following conditions:

4.1.1 All applicable sections in Report Number 2211-03.

4.1.2 The design, installation, and inspections are in accordance with additional requirements of CBC and CRC, as applicable.

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Notes

1 For more information, visit drjcertification.org or call us at 608-310-6748.

2 Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the NDS, AISI S202, US professional engineering law, Canadian building code, Canada professional engineering law, Qualtim External Appendix A: Definitions/Commentary, Qualtim External Appendix B: Project/Deliverables, Qualtim External Appendix C: Intellectual Property and Trade Secrets, definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

3 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702

4 Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review https://www.justice.gov/atr/mission and https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3

5 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests

6 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1:~:text=Conformance%20to%20Standards-,The%20design%20strengths%20and%20permissible%20stresses,-of%20any%20structural

7 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20make%2C%20or%20cause%20to%20be%20made%2C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

8 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2

9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency

10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source

11 https://www.law.cornell.edu/uscode/text/18/1832 (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of $5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: Intellectual Property and Trade Secrets.

12 https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional AND https://apassociation.org/list-of-engineering-boards-in-each-state-archive/

13 https://www.cbitest.com/accreditation/

14 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1:~:text=directed%20to%20enforce%20the%20provisions%20of%20this%20code

15 https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3 AND https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1

16 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

17 https://iaf.nu/en/about-iaf-mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope

18 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

19 https://www.justice.gov/crt/deprivation-rights-under-color-law AND https://www.justice.gov/atr/mission

20 Unless otherwise noted, the links referenced herein use un-amended versions of the 2024 International Code Council (ICC) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the IBC 2024 and the IRC 2024 are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

21 All references to the CBC and CRC are the same as the 2024 IBC and 2024 IRC unless otherwise noted in the CBC and CRC Supplement at the end of this report.

22 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2(Listed%20or%20certified); https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed AND https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled

23 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4

24 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades

25 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#:~:text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur

26 Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.

27 https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH

28 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

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[29] 2018: https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9 AND 2021: https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11

[30] Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.

[31] https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

[32] Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.

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