

GENERAL INFORMATION

CORDLESS CONCRETE NAILER (CCN)

Gas-Free Fastening System

INTRODUCTION

The 20V MAX* Cordless Concrete Nailer is an operationally gas-free fastening system designed for use in concrete, concrete masonry block and steel applications. Running on only a DEWALT 20V MAX* battery, this tool eliminates the need for fuel cells and powder loads. It provides a productive and powerful fastening solution with no licensing requirements, and can operate on the user's existing DEWALT battery platform. This system is ideal for commercial framing and track installation, light gauge mechanical and electrical installations, and can be considered for insulation, lathing and other surface prep applications. Stick-E assemblies are specially designed components for various fastening attachments into concrete, concrete masonry block and steel.

GENERAL APPLICATIONS AND USES

- Attaching light gauge steel track to concrete, concrete masonry block (CMU) or steel
- Attaching mechanical clips and fixings to concrete, concrete masonry block (CMU) or steel
- Attaching plywood to concrete or concrete masonry block (CMU)
- Attaching lath to concrete, concrete masonry block (CMU) or steel
- Attaching furring strips to concrete or concrete masonry block (CMU)

FEATURES AND BENEFITS

- + Gas-free operation and no licensing requirements
- + Field-serviceable driver blade and tool-free, interchangeable nosepieces
- + Adjustable power settings, low noise and recoil levels
- + Comparable application speed to gas concrete nailers
- + Dual LED lights illuminate work surface and provide tool diagnostics
- + Can be mounted on a pole tool
- + 600 shots per battery charge (see tool specifications section)**

APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES), ESR-4076
- Code compliant with the International Building Code/International Residential Code: 2018 IBC/IRC, 2015 IBC/IRC, 2012 IBC/IRC, and 2009 IBC/IRC
- Tested in accordance with ASTM E1190 and ICC-ES AC70 for use in concrete, lightweight concrete, concrete over steel deck, concrete masonry and steel

GUIDE SPECIFICATIONS

CSI Divisions: 03 15 00 - Concrete Accessories, 05 05 23 - Metal Fastenings, 06 05 23 - Wood, Plastic and Composite Fastenings, 09 22 16.23 - Fasteners. Power-driven fasteners shall be CCN fasteners as supplied by DEWALT, Towson, MD. Fasteners shall be installed in accordance with the published instructions and the Authority Having Jurisdiction.

TOOL SPECIFICATIONS

Tool Model	DCN890P2	DCN891B DCN891P2
Tool Width	4"	4"
Tool Length	15.25"	15.25"
Tool Height	16.25"	15"
Tool Weight (Bare, without battery)	9.35 lbs	8.9 lbs.
Pin Length (Range)	1/2" to 2-1/4"	1/2" to 1"
Pin Capacity	33	33
Approximate Shots per Battery Charge**	600	600

For 20V MAX Maximum initial battery voltage measured without a workload is 20 volts. Nominal voltage is 18.
**With 5.0Ah battery pack (driving 0.102" diameter shank, 3/4" long fasteners into concrete)

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20V MAX* CORDLESS CONCRETE NAILER



CCN FASTENERS FOR CONCRETE AND MASONRY



CCN FASTENERS FOR STEEL



CCN SPECIALTY FASTENERS



STICK-E™ ASSEMBLIES

SUITABLE BASE MATERIALS

- Normal-weight concrete
- Lightweight concrete
- Grouted concrete masonry (CMU)
- Hollow concrete masonry
- Steel

PERFORMANCE DATA

Allowable Loads for CCN Fasteners Driven into Normal Weight Concrete^{1,2,3,4,5}

Shank Type	Shank Diameter (inch)	Minimum Embed. (inch)	Minimum Spacing (inch)	Minimum Edge Distance (inch)	Minimum Concrete Compressive Strength (f'c)							
					2,500 psi		3,000 psi		4,000 psi		6,000 psi	
					Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
Straight	0.102	3/4	4	3-1/4	155	155	175	175	195	170	-	-
			4	2	125	135	145	155	140	170	-	-
	0.145	3/4	4	3-1/4	125	125	145	145	140	180	-	-
			4	2	120	125	140	145	140	180	-	-
Tapered	0.120	5/8	3-1/4	3-1/4	150	120	170	135	170	145	75	135
			2-3/4		150	120	170	135	165	135	75	135
			2		150	90	170	100	160	100	75	95

For SI: 1 lbf = 4.48 N, 1 inch = 25.4mm, 1 psi = 6.895 kPa

- Fasteners must not be driven until the concrete has reached the tabulated compressive strength.
- Concrete thickness must be a minimum of 3 times the embedment depth of the fastener or 2 inches, whichever is greater. Consideration of smaller spacing and edge distances may be given based on application or jobsite testing.
- The tabulated allowable load values are for the fastener only. Wood or steel members connected to the steel substrate must be investigated in accordance with accepted design criteria.
- Allowable load capacities are calculated using minimum required safety factors in accordance with ICC-ES AC70; the applied safety factor for the tabulated allowable loads is 5.0. Consideration of additional safety factors may be necessary depending on the application such as life safety.
- Multiple fasteners are recommended for any attachment for increased reliability.

Allowable Loads for CCN Fasteners Driven into Minimum 3,000 psi Sand-Lightweight Concrete and Sand-Lightweight Concrete over Steel Deck^{1,5,6,7,8}

Shank Type	Shank Diameter (inch)	Minimum Embedment (inch)	Installed Directly into Concrete ²		Installed Through 3-inch Deep Steel Deck Panel into Concrete ³				Installed Through 1-1/2-inch Deep Steel Deck Panel into Concrete ⁴				Top Cover (inches)
			Tension (lbs)	Shear (lbs)	Tension (lbs)		Shear (lbs)		Tension (lbs)		Shear (lbs)		
					Upper Flute	Lower Flute	Upper Flute	Lower Flute	Upper Flute	Lower Flute	Upper Flute	Lower Flute	
Straight	0.102	3/4	145	160	125	105	260	240	105	105	245	240	2
Tapered	0.120	5/8	120	140	95	80	205	185	100	90	205	200	2

For SI: 1 lbf = 4.48 N, 1 inch = 25.4mm, 1 psi = 6.895 kPa

- Fasteners must not be driven until the concrete has reached the tabulated compressive strength.
- For straight shank fasteners installed directly into concrete (e.g. top of concrete deck), fastener edge distance must be 3.25 inches minimum and fastener spacing must be 4 inches minimum. Fastener spacing must be a minimum of 4 inches for straight shank fasteners and a minimum of 3.25 inches for tapered shank fasteners.
- The steel deck must have a minimum base material thickness of 0.035 inch, minimum yield strength, F_y , of 33 ksi, minimum tensile strength of 45 ksi and conform to the profile requirements of Figure 1. Fastener edge distance (lower flute locations) must be a minimum of 1-1/8 inches. Fastener spacing must be a minimum of 4 inches for straight shank fasteners and a minimum of 3.25 inches for tapered shank fasteners. Consideration of smaller spacing and edge distances may be given based on application or jobsite testing.
- The steel deck must have a minimum base material thickness of 0.035 inch, minimum yield strength, F_y , of 33 ksi, minimum tensile strength of 45 ksi and conform to the profile requirements of Figure 2. Fasteners may be installed in an inverted deck profile provided the requirements of the fastener installation locations are followed. Fastener edge distance (lower flute locations) must be a minimum of 7/8 inch. Fastener spacing must be a minimum of 4 inches for straight shank fasteners and a minimum of 3.25 inches for tapered shank fasteners. Consideration of smaller spacing and edge distances may be given based on application or jobsite testing.
- Embedment is measured from the surface of the steel deck; the steel deck panel must have a base-metal thickness of 0.030-inch (22 gauge) to 0.048-inch (18 gauge). Consideration for the thickness of the material fastened to the base material must be given to achieve the required embedment for the fasteners.
- The tabulated allowable load values are for the fastener only. Wood or steel members connected to the steel substrate must be investigated in accordance with accepted design criteria.
- Allowable load capacities are calculated using minimum required safety factors in accordance with ICC-ES AC70; the applied safety factor for the tabulated allowable loads is 5.0. Consideration of additional safety factors may be necessary depending on the application such as life safety.
- Multiple fasteners are recommended for any attachment for increased reliability.

Figure 1 - Fastener Installation Through Soffit of 3-inch Deep Concrete-filled Composite Steel Deck Floor and Roof Assemblies

SAND-LIGHTWEIGHT CONCRETE OVER STEEL DECK (MINIMUM 3,000 PSI)

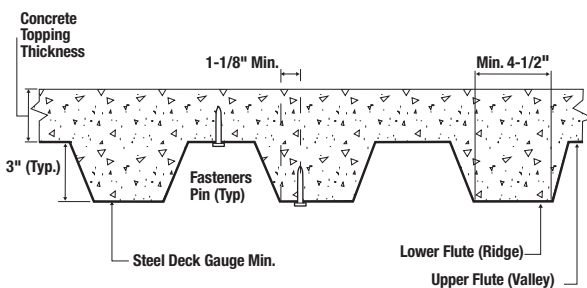
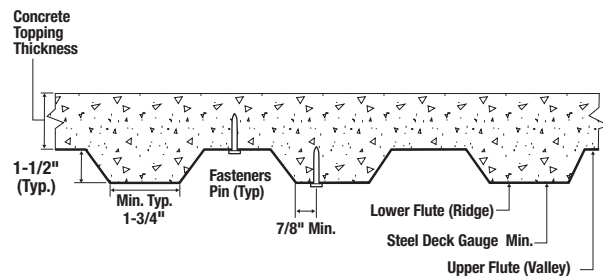


Figure 2 - Fastener Installation Through the Soffit of 1-1/2 inch Deep Concrete-filled Composite Steel Deck Floor and Roof Assemblies

SAND-LIGHTWEIGHT CONCRETE OVER STEEL DECK (MINIMUM 3,000 PSI)



Allowable Loads for CCN Fasteners Driven into Concrete Masonry Units^{1,2,3,4,5,6}

Shank Type	Shank Diameter (inch)	Minimum Embedment (inch)	Minimum Edge Distance (inch)	Hollow CMU				Grouted CMU					
				Face Shell		Mortar Joint		Face Shell		Mortar Joint		Top of Grouted Cell	
				Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
Straight	0.102	7/8	3-3/4	70	145	55	115	85	110	60	100	140	120
	0.145	3/4	3-3/4	105	65	65	55	-	-	-	-	-	-
Tapered	0.102	5/8	3-3/4	65	45	60	80	60	70	60	80	135	100
			2	65	45	-	-	60	70	-	-	-	-

For St: 1 lbf = 4.48 N, 1 inch = 25.4mm, 1 psi = 6.895 kPa

- Concrete masonry units must be minimum lightweight units conforming to ASTM C90. The minimum nominal size of the CMU must be 8 inches high by 8 inches wide by 16 inches long, with a minimum 1-1/4 -inch-thick face shell thickness.
- Fasteners must be installed a minimum of 1-1/4 inches from the vertical mortar joints. Allowable loads for fasteners installed in vertical mortar joints is outside the scope of this data.
- For straight shank fasteners, minimum fastener spacing is 4 inches center-to-center. For tapered shank fasteners, minimum fastener spacing is 2 inches center-to-center.
- Shear loads for fasteners installed in the face shell or top of grouted cells can be applied in any direction. Shear direction can be horizontal or vertical along the CMU wall plane.
- The allowable tension and shear values are for the fasteners only. Members connected to the concrete masonry must be investigated in accordance with accepted design criteria.
- Allowable load capacities are calculated using minimum required safety factors in accordance with ICC-ES AC70; the applied safety factor for the tabulated allowable loads is 5.0. Consideration of additional safety factors may be necessary depending on the application such as life safety.

Allowable Loads for CCN Fasteners in Steel^{1,5}

Shank Type	Shank Diameter (inch)	Minimum Spacing (inch)	Minimum Edge Distance (inch)	Allowable Loads In ASTM A36/A1101 Steel						Allowable Loads ASTM A572 Grade 50 or ASTM A992 Steel					
				1/4 ²		3/8 ³		1/2 ^{2,4}		1/4 ²		3/8 ³		1/2 ¹	
				Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
Tapered (1/2-inch-long steel pin)	0.120	1	1/2	170	315	165	265	155	220	185	340	165	270	160	230

For St: 1 lbf = 4.48 N, 1 inch = 25.4mm, 1 psi = 6.895 kPa

- Steel base material must have minimum yield and tensile strengths (F_y and F_u) equal to 36 ksi and 58 ksi, respectively for A36/A1101 steel and equal to 50 ksi and 65 ksi, respectively for A572 Grade 50 or A992 steel.
- Fasteners must be driven to where the full point length of the fastener penetrates through the steel base material.
- Fastener point penetration is not necessary provided a minimum embedment depth of 0.295 inch is achieved.
- Fastener point penetration is not necessary provided a minimum embedment depth of 0.295 inch is achieved. Allowable load value applies to steel base material with thickness of 1/2 inch and greater.
- Allowable load capacities are calculated using minimum required safety factors in accordance with ICC-ES AC70; the applied safety factor for the tabulated allowable loads is 5.0. Consideration of additional safety factors may be necessary depending on the application such as life safety.
- Multiple fasteners are recommended for any attachment for increased reliability.

Allowable Tensile Pull-Over Strengths for Light Gauge Steel Framing with CCN Fasteners^{1,2,3}

Shank Type	Shank Diameter (inch)	Head Diameter (inch)	16 Gauge	18 Gauge	20 Gauge	22 Gauge	25 Gauge
			Allowable (lbs)	Allowable (lbs)	Allowable (lbs)	Allowable (lbs)	Allowable (lbs)
			Straight	0.102	0.25	335	270
0.145	0.25	335		270	200	170	120
Tapered	0.120	0.25	335	270	200	170	120

- Tabulated pull-over strengths were calculated in accordance with ICC-ES AC70 and AISI S100-12. Allowable load values are based on a safety factor of 3.0.
- Allowable pullover capacities of sheet steel or framing member should be compared to the fastener tensile capacity in concrete, masonry or steel to determine the controlling resistance load.
- Sheet steel or framing member with tensile strength of 45 ksi assumed for calculating tabulated values.

STICK-E ASSEMBLIES - SELECTION GUIDE AND PERFORMANCE DATA^{1,2,3,4,5,6,7,8}

Trade / Contractor	Application	Stick-E Accessory		Stick-E and Fastener			Fastener	
		Cat. No.	Description	Suitable Base Material	Allowable Load lbs.	Min. Pin Embed. in.	Shank Dia. x Length in.	CCN System Pin Cat. No.
Plasterer & Insulator	Installing wire lath for stucco or surfacing applications	DFD405101	Lathing Washer 1"	Concrete	60	5/8	0.102 x 3/4 or 0.102 x 0.780 (K)	DCN890075 or DCN8907804
				Hollow/Grouted Block (CMU)	55	5/8		
	Attaching rigid exterior foam insulation	DFD405716	Insulation Washer 1-7/16"	Concrete	30	5/8	0.102 x 1-1/4	DCN890125
			Hollow/Grouted Block (CMU)	30	5/8			
	Attaching DensGlass® board	DFD405901	Denz Glass Washer 1-1/4"	Light Gauge Steel Framing	15 20	18 gauge 16 gauge	0.108 x 1-3/8 (K)	DCN89041380
Electrical	Attaching 3/8" Dia. flexible BX cable	DFD405338	BX Clip 3/8"	Concrete	10	5/8	0.102 x 3/4 or 0.102 x 0.780 (K)	DCN890075 or DCN8907804
				Hollow/Grouted Block (CMU)	10	5/8		
	Attaching 1/2" diameter conduit	DFD405312R	Conduit Clip 1/2"	Concrete	10	5/8		
				Hollow/Grouted Block (CMU)	10	5/8		
	Attaching 3/4" diameter conduit	DFD405334R	Conduit Clip 3/4"	Concrete	10	5/8		
				Hollow/Grouted Block (CMU)	10	5/8		
	Attaching 1" diameter conduit	DFD405310R	Conduit Clip 1"	Concrete	10	5/8		
				Hollow/Grouted Block (CMU)	10	5/8		
	Hanging 1/2" diameter conduit	DFD405412	Mini Conduit Clamp 1/2"	Concrete	10	5/8		
Hanging 3/4" diameter conduit	DFD405434	Mini Conduit Clamp 3/4"	Concrete	10	5/8			
Hanging 1" diameter conduit	DFD405410	Mini Conduit Clamp 1"	Concrete	10	5/8			
	For temporary lighting or wire strapping (using zip-tie or velcro)	DFD405902	Cable Tie Donut 1-1/4"	Concrete	10	5/8		
Mechanical & Electrical	Attaching pencil rod, hooks & wire assemblies	DFD405550	Right Angle Clip 90°	Concrete	75	5/8	0.102 x 3/4 or 0.102 x 0.780 (K)	DCN890075 or DCN8907804
	Attaching pencil rod, hooks & wire assemblies	DFD405530	Angle Clip 60°	Concrete	75	5/8		
	Hanging 1/4" threaded rod	DFD405214	Rod Hanger 1/4"	Concrete	75	5/8		
	Hanging 3/8" threaded rod	DFD405238	Rod Hanger 3/8"	Concrete	75	5/8		
	Hanging 1/4" threaded rod	DFD405215	Post Nut Rod Hanger 1/4"	Concrete	75	5/8		
	Hanging 3/8" threaded rod	DFD405239	Post Nut Rod Hanger 3/8"	Concrete	75	5/8		
Sheet Metal	Attach duct straps to suspend HVAC	DFD405112	Strap Mtl Washer 1/2"	Concrete	50	5/8	0.102 x 3/4 or 0.102 x 0.780 (K)	DCN890075 or DCN8907804
Concrete	Attaching #3 rebar/dowels or wire baskets	DFD405300	Rebar/Dowel Basket Clip	Concrete	50	5/8	0.102 x 3/4 or 0.102 x 0.780 (K)	DCN890075 or DCN8907804

DensGlass is a registered trademark of Georgia-Pacific.
K = Knurled

- Fasteners installed into concrete or concrete masonry block must not be driven until the base material has reached the minimum specified compressive strength. Embedment is measured from the surface of the base material to the end of the fastener.
- For fasteners installed into concrete, the member thickness must be a minimum of 3 times the embedment depth of the fastener or 2 inches, whichever is greater.
- For installations into concrete or concrete masonry block, minimum fastener edge and end distance is 3-3/4 inches; minimum fastener spacing is 4 inches center-to-center.
- For installations into concrete masonry block, fasteners may be installed into the face shell or horizontal mortar joint. The face shell thickness of hollow concrete masonry block must be 1-1/4 inch minimum. Fasteners must be installed a minimum of 1-1/4 inch from the vertical mortar joints; allowable loads for fasteners installed in vertical mortar joints is outside the scope of this data.
- Allowable load capacities for concrete are based on a minimum concrete compressive strength of 3000 psi; allowable load capacities in concrete may be increased by 15 percent for installations into 4000 psi concrete and allowable load capacities must be reduced by 10 percent for installations into 2500 psi concrete. Allowable load capacities for concrete masonry block are based on a minimum masonry compressive strength of 2000 psi.
- Allowable load capacities for concrete and concrete masonry block are calculated using minimum required safety factors in accordance with ICC-ES AC70; the applied safety factor for the tabulated allowable loads is 5.0. Consideration of additional safety factors may be necessary depending on application such as life safety.
- Allowable loads for light gauge steel framing are calculated using minimum required safety factors in accordance ICC-ES AC259 using light gauge steel framed panels sheathed with DensGlass; the applied safety factor for the tabulated allowable loads is 3.0. Light gauge steel framing members must be minimum 18 gauge thickness. Allowable negative (outward) transverse pressure on the panels must not exceed 15 psf for the specified sheathing thickness, maximum steel stud spacing and fastener spacing. Consideration of additional safety factors may be necessary depending on the applicable design method and/or the application such as life safety. Wood members and/or other proprietary materials connected to the light gauge steel substrate must be investigated for compliance with the applicable codes.
- Multiple fasteners are recommended for any attachment for increased reliability.

CORDLESS FASTENING

Gas-Free Fastening System

CORDLESS CONCRETE NAILER (CCN)

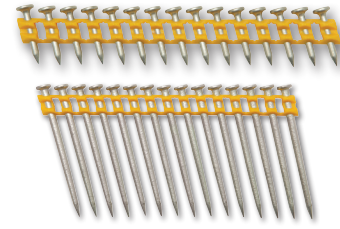
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ORDERING INFORMATION

CCN Concrete Fasteners

Cat. No.	Shank Dia. in.	Length in.	Finish	Typical Applications	Box	Ctn.
DCN890075	0.102	3/4	Zinc	Metal track to concrete	1000	6
DCN890100	0.102	1	Zinc	Metal track to concrete	1000	6
DCN890125	0.102	1-1/4	Zinc	Fixture to concrete or block	1000	6
DCN890150	0.102	1-1/2	Zinc	Fixture to concrete or block	1000	6
DCN8912075	0.120	3/4	Zinc	Metal track to concrete or block	1000	6
DCN891075	0.145	3/4	Zinc	Metal track to concrete	1000	6
DCN890225	0.137	2-1/4	Zinc	2x wood to concrete	500	6

Fasteners have a head diameter of 0.25-inch and zinc plated according to ASTM B695, Class 5.



CCN Steel Fasteners

Cat #	Shank Dia. in.	Length in.	Finish	Typical Applications	Box	Ctn.
DCN8910500	0.120	1/2	Zinc	Metal track to steel	1000	6

Fasteners have a head diameter of 0.25-inch and zinc plated according to ASTM B695, Class 5.



CCN Specialty Fasteners

Cat #	Shank Dia. in.	Step Dia. in.	Length in.	Knurl (K)	Finish	Typical Applications	Box	Ctn.
DCN8941380	0.108	-	1-3/8	Yes	Zinc	Plywood / Fiberglass gypsum sheathing to steel stud	1000	6
DCN8910680	0.120	0.102	0.680	-	Yellow Zinc	Metal track to steel or hard concrete	1000	6
DCN8917300	0.120	0.102	0.730	-	Yellow Zinc	1/4" plywood, furring strip to steel or hard concrete	1000	6
DCN8907804	0.102	0.088	0.780	Yes	Zinc	Steel, studs, precast concrete, block, Stick-E accessories	1000	6

Fasteners have a head diameter of 0.25-inch and zinc plated according to ASTM B695, Class 5.



Tools and Accessories

Cat #	Description	Box	Ctn.
DCN890B	Cordless Concrete Nailer (Bare Tool), 2-1/4" Long Pin Capacity DCN8904 Standard/Drywall Contact Trip, Kit Box	1	-
DCN890P2	Cordless Concrete Nailer (Kit), 2-1/4" Long Pin Capacity Two 20V* MAX Premium Lithium Ion Batteries (5Ah), Charger DCN8904 Standard/Drywall Contact Trip, Kit Box	1	-
DCN891B	20V MAX* Magazine Cordless Concrete Nailer (Bare Tool) DCN891 20V MAX* Cordless Concrete Nailer, DCN8907 1" Magazine DCN8905 Standard / Drywall Nose Piece, Kit Box	1	-
DCN891P2	20V MAX* Cordless Concrete Nailer (KIT) DCN891 20V MAX* Cordless Concrete Nailer, (2) DCB205 20V MAX* XR Lithium Ion Batteries (5AH), DCN8907 1" Magazine, DCN8905 Standard / Drywall Nose Piece, Charger, Kit Box	1-	-
DCN8901	Replacement Driver Blade	10	4
DCN8902	Magnetic Stick-E™ Contact Trip (nosepiece)	10	4
DCN8903	Stick-E™ Contact Trip (nosepiece)	10	4
DCN8904	Standard / Drywall Contact Trip (nosepiece)	10	4
DCN8905	6' Pole Tool (for Cordless Concrete Nailer only) (pole tool can be used as 3' or 6' extension)	1	3
DCN8906	2-1/4" Deep Tool Magazine	1	-
DCN8907	1" Deep Tool Magazine	1	-



CORDLESS FASTENING

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Stick-E Assemblies

Cat. No.	Description	Ctn Qty.	Mstr Qty.
DFD405101	Stick-E Lathing Washer 1"	100	1000
DFD405100	Lathing Washer (No Stick-E)	100	1000
DFD405716	Stick-E Insulation Washer 1-7/16"	100	1000
DFD405901	Stick-E Denz Glass Washer 1-1/4"	250	1000
DFD405338	Stick-E BX Clip 3/8"	100	1000
DFD405412	Stick-E Conduit Clamp 1/2"	50	200
DFD405434	Stick-E Conduit Clamp 3/4"	50	200
DFD405410	Stick-E Conduit Clamp 1"	50	100
DFD405312R	Stick-E Mini Conduit Clip 1/2"	100	1000
DFD405334R	Stick-E Mini Conduit Clip 3/4"	100	1000
DFD405310R	Stick-E Mini Conduit Clip 1"	100	1000
DFD405902	Stick-E Cable Tie Donut 1-1/4"	100	1000
DFD405550	Stick-E Right Angle Clip 90°	100	1000
DFD405530	Stick-E Angle Clip 60°	100	1000
DFD405214	Stick-E Rod Hanger 1/4"-20	100	1000
DFD405238	Stick-E Rod Hanger 3/8"-16	100	1000
DFD405215	Stick-E Post Nut Rod Hanger 1/4"-20	100	1000
DFD405239	Stick-E Post Nut Rod Hanger 3/8"-16	100	1000
DFD405112	Stick-E Strap Mtl Washer 1/2"	100	1000
DFD405300	Stick-E Rebar/Dowel Basket Clip	100	1000
DFD405610	Stick-E Square Washer 1"	100	1000
DFD405102	Stick-E SS Sealing Washer 3/4"	100	1000

Angle clips are 3/4-inch wide and 2mm thick with a 5/16-inch wire hole.
Rebar/dowel basket clips are sized to accept #3 rebar and 3/8-inch dowels.

