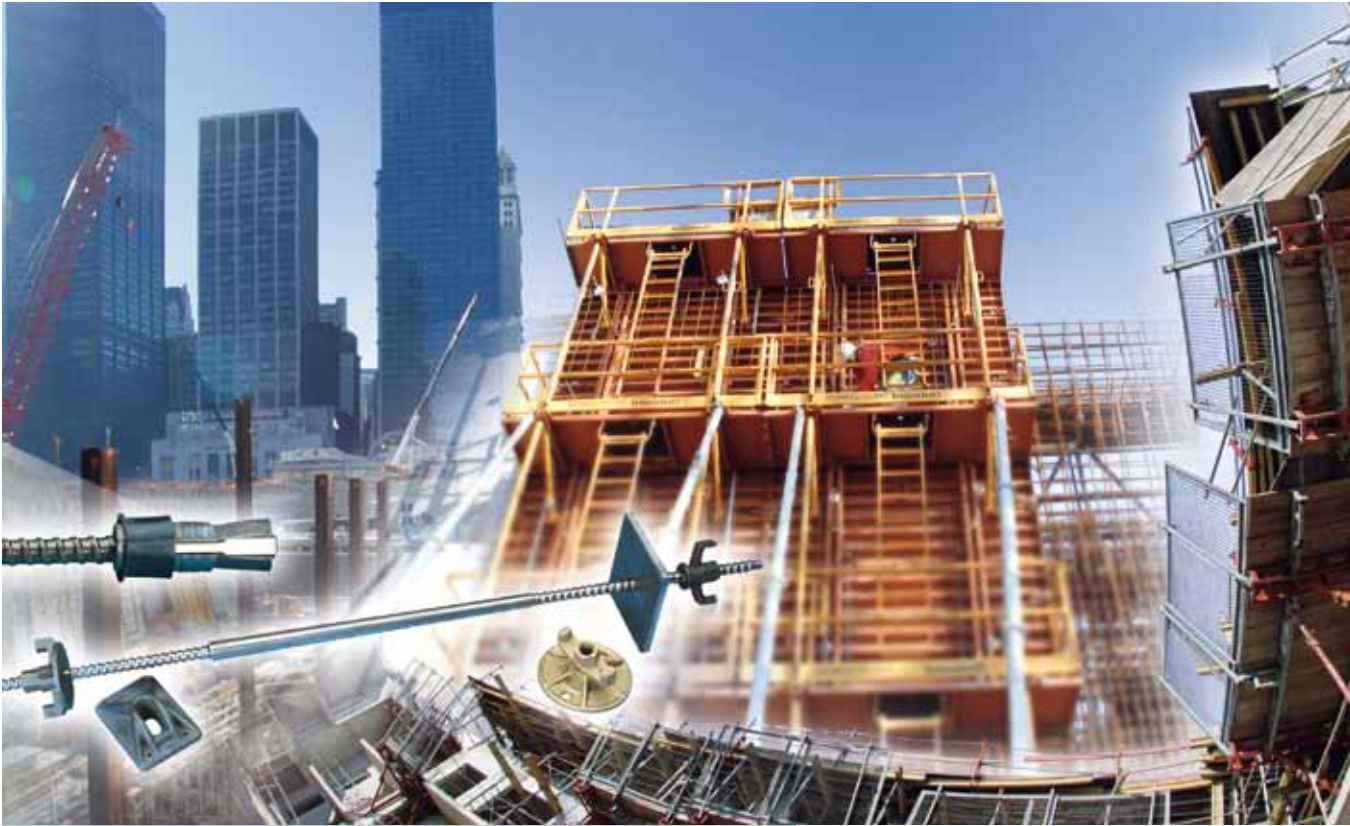
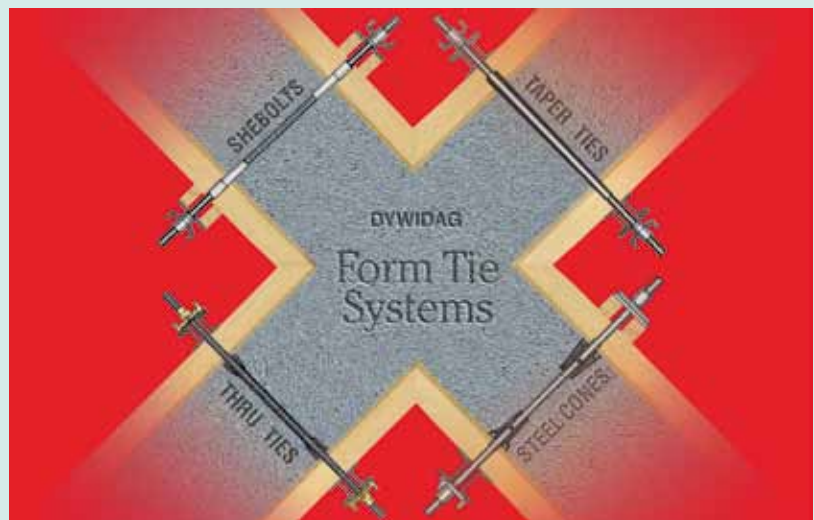


DYWIDAG Form Tie Systems



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THREADBAR® / Benefits

THREADBAR®

The original THREADBAR® is hot-rolled, high strength steel with two flat sides in the thread pattern that allow gripping and turning of the bars with a crescent wrench. The flat sides facilitate self-cleaning with each stripping operation. DYWIDAG THREADBAR® and accessories have been used around the world for decades.

Benefits

Fast

The continuous coarse threads on all DYWIDAG Form Tie components mean quick installation and stripping. The threads resist handling damage and remain threadable even when dirty or rusty.

Strong

DYWIDAG's high load capacities allow greater spacing for fewer ties and lower labor costs.

Light

DYWIDAG Ties are 50% lighter than conventional ties. Their lightweight and high strength features save on shipping and labor costs.

Versatile

The bars are available in mill lengths and can be cut to fit and/or spliced at any point without reduction in strength or threadability.

DYWIDAG THREADBAR® vs. Conventional High Tensile Coil Rod

	5/8" THREADBAR®	3/4" Coil Rod	7/8" THREADBAR®	1" Coil Rod
Steel Grade (KSI)	160	120	160	120
Ultimate Load (kips)	43.8	38	78.4	75
Weight (#/LF)	1.0	1.5	1.7	2.7
Bendability (Around a 6D Pin)	yes	no	yes	no
Threadability (After Surface Rusting)	yes	no	yes	no
Certified Mechanical Properties	yes	?	yes	?
Mill Lengths	19'1"	20'&12'	38'9"	20'&12'
Stripping Speed (Threads per inch)	Faster (2.5)	Slower (4.5)	Faster (2.5)	Slower (3.5)
Jobsite Handling	Rounded Threads: More Durable	Sharper Threads: Subject to Damage	Rounded Threads: More Durable	Sharper Threads: Subject to Damage
Convenient End Hardware Compatibility	Same Size All Systems	Various Sizes Depending on System	Same Size All Systems	Various Sizes Depending on System

DYWIDAG Taper Ties



All Steel Taper Ties

DYWIDAG Taper Ties are machined from a single high strength steel bar. The taper is milled to the appropriate length and diameter. Both ends of the tie are

turned down to the same diameter and threaded to allow the same size hardware to be used on both ends. The rugged and fast DYWIDAG thread

pattern (2-1/2 threads per inch) is utilized, resulting in much less time required for stripping, setting and cleaning.

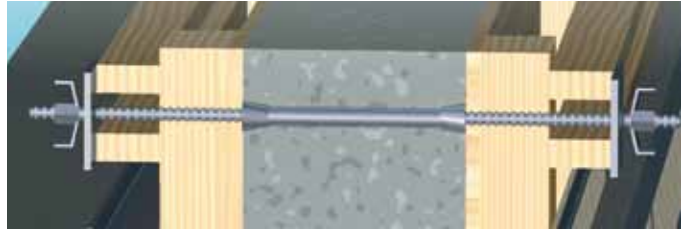
	Component	Part Number	Weight		Working Load*	
			[lbs]	[kg]	[kips]	[kN]
1" to 3/4" taper with 5/8" ends	16" taper length, 41" overall	B15F28216	5.01	2.25	18.75	83
	24" taper length, 49" overall	B15F28224	6.38	2.87	18.75	83
	32" taper length, 57" overall	B15F28232	7.75	3.48	18.75	83
	40" taper length, 65" overall	B15F28240	9.11	4.10	18.75	83
7/8" to 3/4" taper with 5/8" ends	16" taper length, 41" overall	B15F28316	4.65	2.09	18.75	83
	24" taper length, 49" overall	B15F28324	5.81	2.61	18.75	83
	32" taper length, 57" overall	B15F28332	7.00	3.15	18.75	83
	40" taper length, 65" overall	B15F28340	8.17	3.68	18.75	83
3/4" to 5/8" taper with 5/8" ends	16" taper length, 41" overall	B15F28416	3.97	1.79	18.75	83
	24" taper length, 49" overall	B15F28424	4.81	2.16	18.75	83
	32" taper length, 57" overall	B15F28432	5.65	2.54	18.75	83
	40" taper length, 65" overall	B15F28440	6.50	2.93	18.75	83
1-1/4" to 1" taper with 7/8" ends	30" taper length, 51" overall	B20F28230	11.8	5.31	32.5	145
	36" taper length, 57" overall	B20F28236	13.5	6.08	32.5	145
	42" taper length, 63" overall	B20F28242	15.2	6.84	32.5	145
1" to 7/8" taper with 7/8" ends	16" taper length, 37" overall	B20F28316	7.85	3.53	32.5	145
	24" taper length, 45" overall	B20F28324	10.1	4.54	32.5	145
	32" taper length, 53" overall	B20F28332	12.4	5.58	32.5	145
	40" taper length, 61" overall	B20F28340	14.6	6.57	32.5	145

+ Factor of Safety = 2:1 ++ Special order sizes available upon request.

DYWIDAG Thru Ties



PVC Spacer Sleeve



Thru Ties

PVC Spacer Sleeve		Inside Dimension		Outside Dimension		Weight	
[in]	[mm]	[in]	[mm]	[in]	[mm]	[lbs.]	[kg]
3/4	19.8	0.81	21.95	1.05	27.8	0.214	0.096
1	26.5	1.03	27.2	1.32	34.9	0.315	0.142
1-1/4	33.1	1.36	36.0	1.66	44.0	0.426	0.192



Plastic Cones

Cones are re-usable. Use DYWIDAG THREADBAR® to strip cones.



DYWIDAG Thru Ties, available with THREADBAR®, are sheathed with PVC sleeves and buttressed by reusable plastic cones. This system ensures accurate form spacing and the coarse threading makes installation and stripping quick and easy. The resulting convenience and labor savings make these ties popular worldwide.

THREADBAR® Thru Tie Rods

Plastic Cone		L Dimension		D Dimension		Weight	
[in]	[mm]	[in]	[mm]	[in]	[mm]	[lbs.]	[kg]
5/8	15	1.50	38	1.62	41	0.39	0.18
7/8	20	1.50	38	1.67	48	0.42	0.19
1	26	1.50	38	2.25	57	0.50	0.23

Inner Rod Diameter		Ultimate Strength		Safe Working Load +		Weight	
[in]	[mm]	[kips]	[kN]	[kips]	[kN]	[lbs.]	[kg]
5/8	15	43.8	195	21.9	98	1.0	0.45
7/8	20	78	348	39.2	174	1.7	0.77
1	26	127.5	568	63.7	284	3.0	1.35

+ Factor of Safety = 2:1

Concrete Plug

For architectural walls.

Concrete Plug		Weight	
[in]	[mm]	[lbs.]	[kg]
5/8	15	0.05	0.02
7/8	20	0.07	0.03



Euro Push Fit Cone

Cones are not re-usable.

Euro Push Fit Cone		Weight	
[in]	[mm]	[lbs.]	[kg]
5/8	15	0.02	0.009
7/8	20	0.03	0.01



Note: After cones are stripped, the holes can be dry packed or plugged.

DYWIDAG Shebolts

Shebolts

Available in three sizes listed below, the threaded portions of DYWIDAG Shebolts incorporate standard THREADBAR®. The inner rods also use the standard THREADBAR®. This combination provides a cost-effective and rugged tie that can be adapted to difficult installations.



Shebolt Inner Rod and Thru Ties using THREADBAR®

Bar Size		Maximum Diameter		Ultimate Load		Safe Working Load		Weight	
[inches]	[mm]	[inches]	[mm]	[kips]	[kN]	[kips]	[kN]	[lbs./ft.]	[kg/m]
5/8	15	0.7	18	43.8	195	21.9	98	1.0	1.5
7/8	20	0.9	23	78.4	348	39.2	174	1.7	2.6
1	26	1.2	31	127.5	568	63.7	284	3.0	4.5

Euro Pass-Thru

DYWIDAG Euro Pass-Thru Shebolt is a streamlined version of the conventional shebolt and designed to work with both the small European form panel tie holes, as well as with the conventional forming systems. It is manufactured from high strength steel with the smooth tapered portion milled to the appropriate length and diameter. The end of the shebolt utilizes DYWIDAG rugged and fast (2-1/2 threads per inch) thread pattern and has many outside diameter variations to fill the needs of the different form panel tie holes. The most common outside diameter is 7/8"-20mm. It also utilizes DYWIDAG's fast and versatile THREADBAR® innerrods, which carry loads of 43.8 kips for the 5/8" system and 78.4 kips for the 7/8" system.



Note: DYWIDAG THREADBAR® exceeds tensile capacity of euro pass-thru She Bolts. Call for exact load carrying capacities.

	Ult. Load	SWF Load
5/8" Shebolt	37.5	18.8
7/8" Shebolt	75.0	37.5

Shebolt Cones



Shebolt Steel Cone
(5/8" – 15mm)

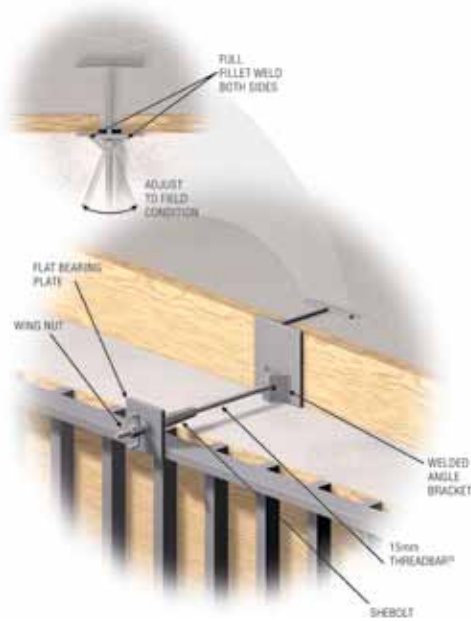
Works with THREADBAR®. Cone shape seals hole for no leakage and clean finish. Suitable for any application where conventional shebolts are used. Tail length can be easily adapted to

accommodate any form dimension. Works with the standard pre-drilled 1" and 1-1/8" European hole diameters. Internally spaces wall form and creates a 2" setback from the face of the wall to end of inner rod.

Shebolt Inner Rod and Thru Ties using THREADBAR® (Not available for 1" diameter)

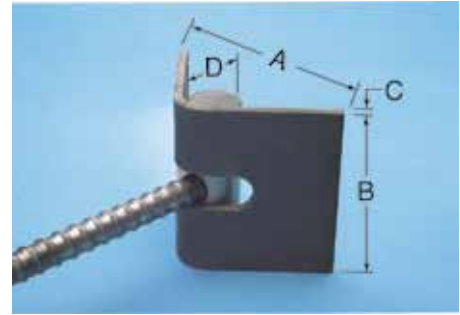
Bar Size		Maximum Diameter		Ultimate Load		Safe Working Load		Weight	
[inches]	[mm]	[inches]	[mm]	[kips]	[kN]	[kips]	[kN]	[lbs./ft.]	[kg/m]
5/8	15	0.7	18	43.8	195	21.9	98	1.0	1.5
7/8	20	0.9	23	78.4	348	39.2	174	1.7	2.6

One-Side Forming Off Steel



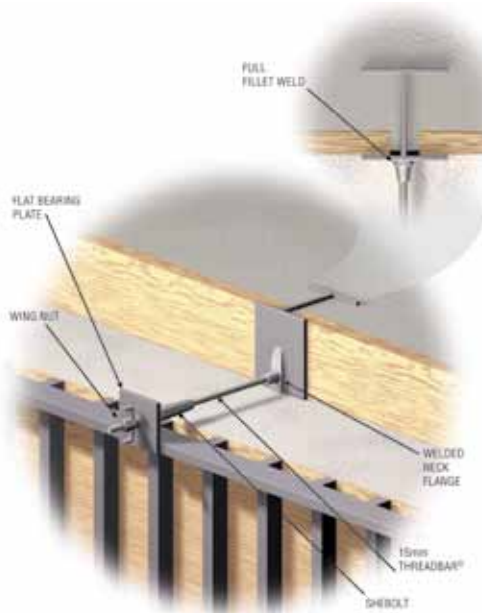
Welded Angle Bracket

Available for both 5/8" and 7/8" THREADBAR®, the threaded pin swivels up to +/- 45°. The welded angle bracket is mainly used on H-piles below grade for one-sided forming applications. This bracket adapts easily to both domestic or European form hole diameters. Note that the THREADBAR® needs to be fully engaged with the threaded pin.



The strengths listed on the chart for the DSI WELDED ANGLE BRACKET were determined based on FULL FILLET WELDS along the B dimension of each side of the bracket. **DSI assumes no responsibility nor liability for this welded connection.**

Rod Diameter		A		B		C		D		Ultimate Load		Safe Working Load 2:1		Bracket W/ PIN Weight		Bar Weight	
[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[kips]	[kN]	[kips]	[kN]	[lbs]	[kg]	[lbs/lf]	[kg/m]
5/8	15	5.25	133	4	102	0.25	6	2	51	43.8	195	21.9	98	4.0	1.8	1.0	1.5
7/8	20	7	178	6	152	0.50	13	2	51	78.4	348	39.2	174	8.5	3.9	1.7	2.6



Welded Neck Flange

The DSI WELDED NECK FLANGE offers an economical solution for one sided forming off steel where angle tying is not required. The strengths listed on the chart were determined based on a 1/4" fillet weld completely around the base of the Neck Flange. **DSI assumes no responsibility nor liability for this welded connection.**



Rod Diameter		A		B		C		D		Ultimate Load		Safe Working Load 2:1		Bracket W/ PIN Weight		Bar Weight	
[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[kips]	[kN]	[kips]	[kN]	[lbs]	[kg]	[lbs/lf]	[kg/m]
5/8	15	1.18	30	5.12	130	0.47	12	1.96	50	43.8	195	21.9	98	4.0	1.8	1.0	1.5
* 7/8" 20 – CALL FOR DIMENSIONS										78.4	348	39.2	174	9.0	4.1	1.7	2.6

Load on Form Ties

Load on Form Ties (P x A) In KIPS

Lateral Pressure, P in PSF	Contributing Area, A in Sq. Ft.											
	9 (3'x 3')	12 (3'x 4')	16 (4'x 4')	20 (4'x 5')	25 (5'x 5')	30 (5'x 6')	36 (6'x 6')	42 (6'x 7')	49 (7'x 7')	56 (7'x 8')	64 (8'x 8')	
3,000	27.0	36.0	48.0	60.0	75.0	90.0	108.0	126.0	147.0	168.0	192.0	
2,900	26.1	34.8	46.4	58.0	72.5	87.0	104.4	121.8	142.1	162.4	185.6	
2,800	25.2	33.6	44.8	56.0	70.0	84.0	100.8	117.6	137.2	156.8	179.2	
2,700	24.3	32.4	43.2	54.0	67.5	81.0	97.2	113.4	132.3	151.2	172.8	
2,600	23.4	31.2	41.6	52.0	65.0	78.0	93.6	109.2	127.4	145.6	166.4	
2,500	22.5	30.0	40.0	50.0	62.5	75.0	90.0	105.0	122.5	140.0	160.0	
2,400	21.6	28.8	38.4	48.0	60.0	72.0	86.4	100.8	117.6	134.4	153.6	
2,300	20.7	27.6	36.8	46.0	57.5	69.0	82.8	96.6	112.7	128.8	147.2	
2,200	19.8	26.4	35.2	44.0	55.0	66.0	79.2	92.4	107.8	123.2	140.8	
2,100	18.9	25.2	33.6	42.0	52.5	63.0	75.6	88.2	102.9	117.6	134.4	
2,000	18.0	24.0	32.0	40.0	50.0	60.0	72.0	84.0	98.0	112.0	128.0	
1,900	17.1	22.8	30.4	38.0	47.5	57.0	68.4	79.8	93.1	106.4	121.6	
1,800	16.2	21.6	28.8	36.0	45.0	54.0	64.8	75.6	88.2	100.8	115.2	
1,700	15.3	20.4	27.2	34.0	42.5	51.0	61.2	71.4	83.3	95.2	108.8	
1,600	14.4	19.2	25.6	32.0	40.0	48.0	57.6	67.2	78.4	89.6	102.4	
1,500	13.5	18.0	24.0	30.0	37.5	45.0	54.0	63.0	73.5	84.0	96.0	
1,400	12.6	16.8	22.4	28.0	35.0	42.0	50.4	58.8	68.6	78.4	89.6	
1,300	11.7	15.6	20.8	26.0	32.5	39.0	46.8	54.6	63.7	72.8	83.2	
1,200	10.8	14.4	19.2	24.0	30.0	36.0	43.2	50.4	58.8	67.2	76.8	
1,100	9.9	13.2	17.6	22.0	27.5	33.0	39.6	46.2	53.9	61.6	70.4	
1,000	9.0	12.0	16.0	20.0	25.0	30.0	36.0	42.0	49.0	56.0	64.0	
900	8.1	10.8	14.4	18.0	22.5	27.0	32.4	37.8	44.1	50.4	57.6	
800	7.2	9.6	12.8	16.0	20.0	24.0	28.8	33.6	39.2	44.8	51.2	
700	6.3	8.4	11.2	14.0	17.5	21.0	25.2	29.4	34.3	39.2	44.8	
600	5.4	7.2	9.6	12.0	15.0	18.0	21.6	25.2	29.4	33.6	38.4	

Special Design Required

**1" THREADBAR®
SWL = 63.7 K**

7/8" THREADBAR®

5/8" THREADBAR®

Contributing Area, A in Sq. Ft.

Use the appropriate DSI ties for loads below their respective line.

A safety factor of 2 has been applied to determine safe working loads (SWL) of ties.

Components

Shebolt – Setting Cone System



Standard Shebolt
B15F37010
B20F37010
B26E37010



Pass-thru Shebolt
B15F38015
B15F38019
B15F38119
B20F38015
B20F38019



5/8" Shebolt Steel
B15F30340
B20F30340



Neoprene Waterstop
B15F34500
B20F34500



Hydrophilic Waterstop
B15F34600
B20F34600

Embedded Anchors



Brace Frame
Double Anchor
B15F20020
B20F20020



U-Bolt
B15FUBLT
B20FUBLT



J-Bolt
B15FJBLT
B20FJBLT



L-Rod
B15FLBLT
B20FLBLT



Wobble
B15F52080
B20F52080

Thru Tie System



Plastic Spacer Cones
B15F86010
B20F86010
B26E86010



PVC Spacer Sleeve
B15F36010
B20F36010
B26E36010



THREADBAR®
B15F01910
B20F04910
B26E06010



Euro Push Fit Cone
B15F87010
B20F87010



Concrete Plug
B15F34110
B20F34110

Special Order Concrete Accessories

In 2007, DSI acquired four companies related to our form tie product line.

Mandelli-Setra manufactures **plastic accessories** such as **rebar chairs and spacers**.

DSI Artéon manufactures **heavy duty lifting inserts**.

Technique Béton manufactures a wide variety of **chemicals**.

contec manufactures **specialty forming systems**.

And **DSI Haan** manufactures a wide variety of **form tie accessories** that complement our existing domestic stock.

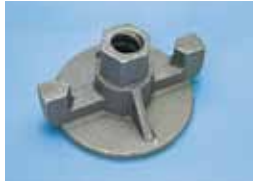
All of these products are available. Please let us know if you request literature or pricing from any of these companies.

Components

End Hardware Accessories



Wing Nut
B15F27711
B20F27711
B26E27710



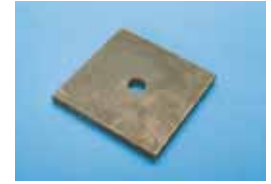
Wing Nut Bracket
B15F27210
B15F27220 3 Wings
B20F2072



Hex Coupler
B15F30510
B20F30510



Batter Washer
B15F35210
B20F35210
B26E35210



Flat Bearing Plate
B15F35175
B20F35100
B26E35100



Hex Nut
B15F27901
B20F20211



Ribbed Plate
B15F26610



Combination Plate
B15F1020



Round Steel Coupler
B15F30310 B20F30310
B26E30310

One Sided Forming Accessories



Welded Angle
Bracket B15F36110
B20F36110



Wobble Anchor
B15F52080
B20F52080
B26E52080



Radiused Anchor
B15F20010
B20F20010



Shebolt Steel Cone
B15F30340
B20F30340



5/8\"/>

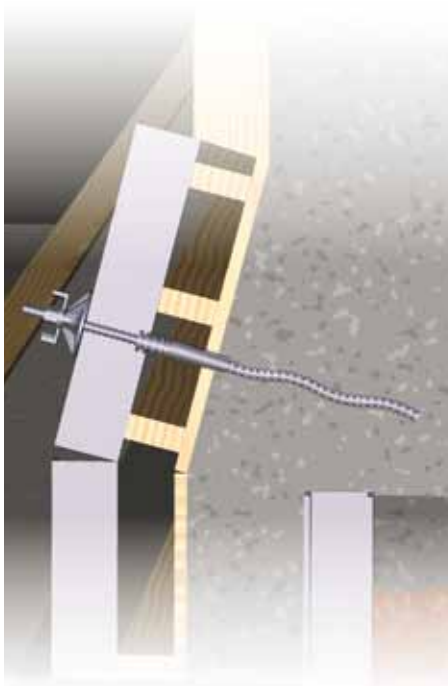
Safety Warning: Improper use of the formwork accessories can expose workers to extreme danger that may result in severe injury or death.

The products and applications shown in this brochure are intended for use by trained, qualified and experienced workmen only. The user of DSI products is cautioned to: evaluate the product application; determine the load to be applied; evaluate and control the field conditions so as to never exceed the safe working loads; inspect on a regular basis all components for signs of wear, misuse, corrosion or overloading, and immediately discard any components that exhibit any of these signs; never weld formwork accessories that have not been specifically designated as weldable. If there is any uncertainty about the proper use or installation of any DSI product, contact the nearest DSI office for clarification or in the United States call 800-DSI-FORM. Negligence in obtaining clarification may result in severe injury or death.

Form Tie Anchors

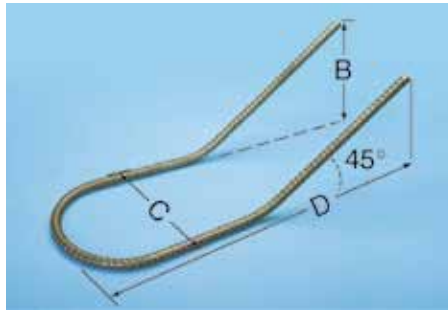
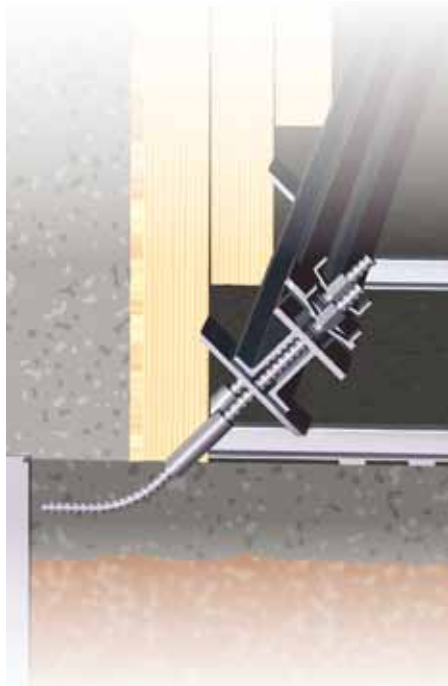
Fabricated using THREADBAR®

Wobble Anchor



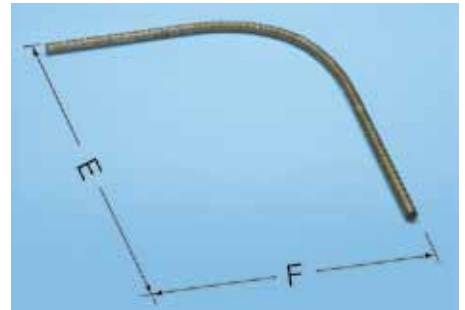
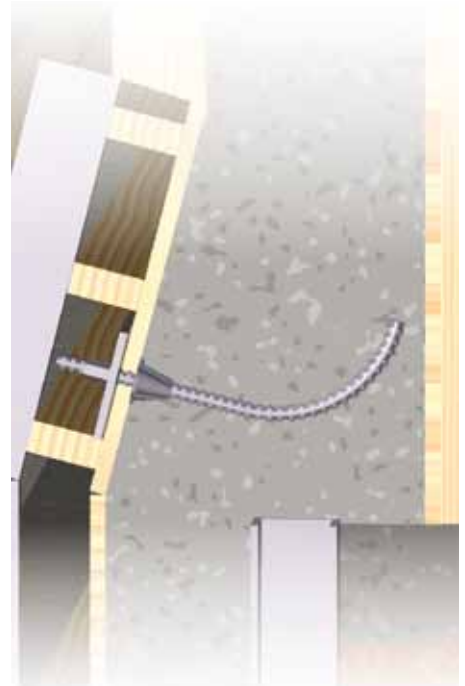
Rod Diameter		A		Ultimate Load*		Weight	
[in]	[mm]	[in]	[mm]	[kips]	[kN]	[lbs.]	[kg]
5/8	15	22	559	43.8	195	1.9	0.9
7/8	20	28	711	78.4	349	3	1.36

Brace Frame Double Anchor



B	C		D		Ultimate Load*		Weight		
[in]	[mm]	[in]	[mm]	[in]	[mm]	[kips]	[kN]	[lbs.]	[kg]
11	280	9	230	20	508	87.6	390	5.2	2.4
11	280	9	230	20	508	157	698	9.0	4.1

Radiused Anchor

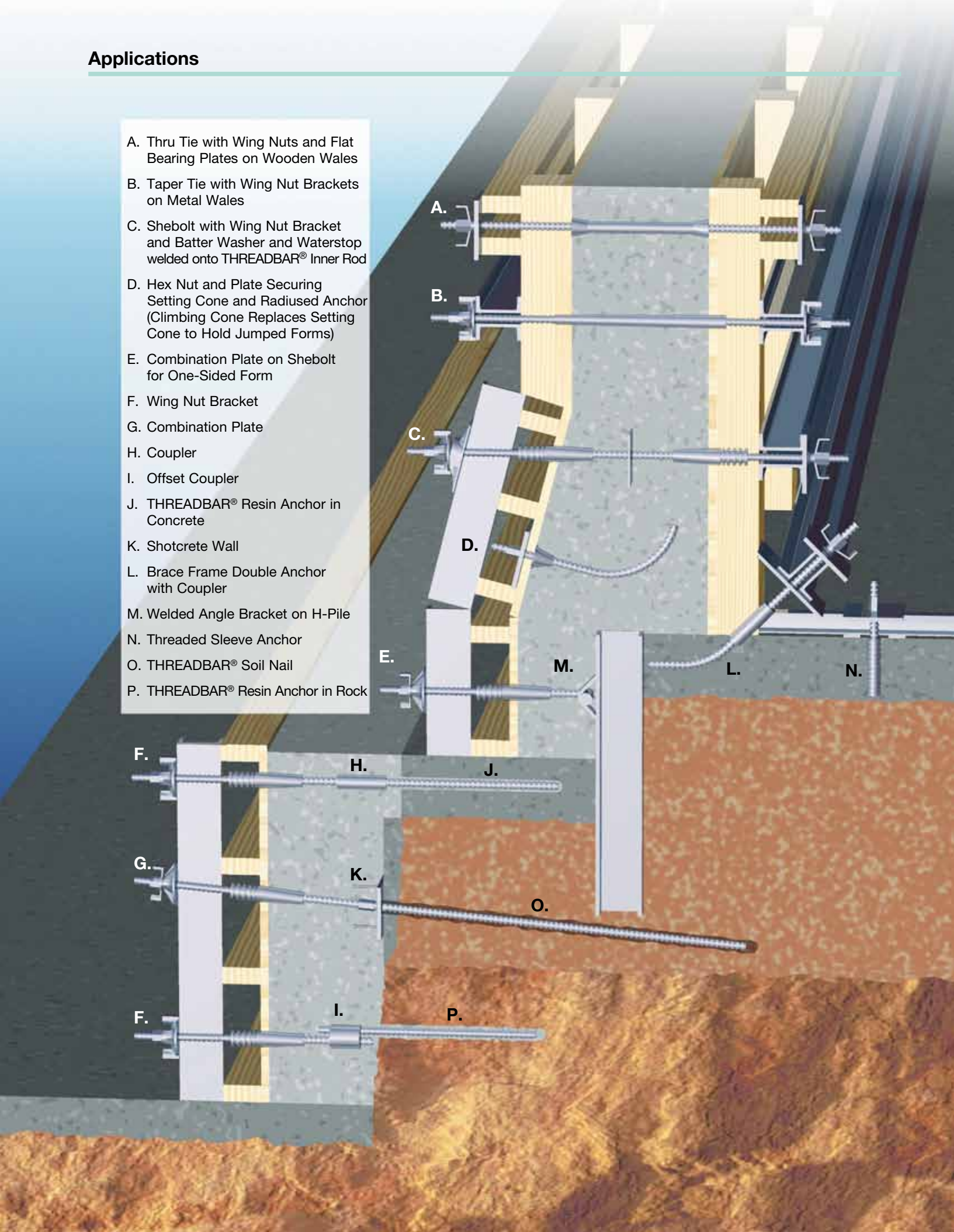


E		F		Ultimate Load*		Weight	
[in]	[mm]	[in]	[mm]	[kips]	[kN]	[lbs.]	[kg]
16	406	17	438	43.8	195	2.6	1.2
21	533	25	635	78.4	349	6.4	2.9

* Assuming 3,000 psi concrete.

Applications

- A. Thru Tie with Wing Nuts and Flat Bearing Plates on Wooden Wales
- B. Taper Tie with Wing Nut Brackets on Metal Wales
- C. Shebolt with Wing Nut Bracket and Batter Washer and Waterstop welded onto THREADBAR® Inner Rod
- D. Hex Nut and Plate Securing Setting Cone and Radiused Anchor (Climbing Cone Replaces Setting Cone to Hold Jumped Forms)
- E. Combination Plate on Shebolt for One-Sided Form
- F. Wing Nut Bracket
- G. Combination Plate
- H. Coupler
- I. Offset Coupler
- J. THREADBAR® Resin Anchor in Concrete
- K. Shotcrete Wall
- L. Brace Frame Double Anchor with Coupler
- M. Welded Angle Bracket on H-Pile
- N. Threaded Sleeve Anchor
- O. THREADBAR® Soil Nail
- P. THREADBAR® Resin Anchor in Rock



DYWIDAG Expansion Anchor

5/8" Expansion Anchor

DYWIDAG expansion anchors can be used with 5/8"THREADBAR®. These anchors are used in many applications including one sided forming off existing

concrete or temporary tiedowns in existing slabs. The fast DYWIDAG thread pattern (2 1/2 threads per inch) provides quick installation and stripping. Available in two

bore hole diameters (33 – 36 mm and 35 – 38 mm), simply determine the estimated compressive strength of existing concrete and the depth of the hole.



Embedded Anchor Capacities

Ultimate load F_u in kips (use appropriate factor of safety)

	Concrete strength [psi]							
	3000	3500	4000	4500	5000	5500	6000	
8	4.8	5.2	5.6	5.9	6.2	6.6	6.8	5/8"
9	7.4	8.0	8.6	9.1	9.6	10.1	10.5	
10	10.4	11.2	12.0	12.8	13.4	14.1	14.7	
11	13.7	14.8	15.8	16.8	17.7	18.5	19.4	
12	17.2	18.6	19.9	21.1	22.3	23.3	24.4	
13	21.1	22.8	24.3	25.8	27.2	28.5	29.8	
14	25.1	27.2	29.0	30.8	32.5	34.0	35.6	
15	29.4	31.8	34.0	36.1	38.0	39.9	41.6	
16	34.0	36.7	39.2	41.6	43.9	46.0	48.0	
17	38.7	41.8	44.7	47.4	50.0	52.4	54.7	
18	43.6	47.1	50.4	53.5	56.3	59.1	61.7	7/8"
19	48.8	52.7	56.3	59.7	63.0	66.0	69.0	
20	54.1	58.4	62.5	66.3	69.8	73.2	76.5	
21	59.6	64.4	68.8	73.0	76.9			
22	65.3	70.5	75.4					
23	71.1	76.8						
24	77.1							

The capacity of embedded anchors in concrete is estimated using the truncated cone break-out failure mechanism.

The concrete cone angle can be assumed as $\alpha = 55^\circ$ to the axis of the load. The ultimate load can be computed using the equation according to ACI 318 appendix D.

* The spacing of expansion anchors shall not be less than 3 times the effective embedment length.

Assume expansion shell length 5"

Example:

Equation (ACI 318 appendix D):

$$F_u = k \cdot \sqrt{f_{c'}} \cdot L^{3/2}$$

F_u = ultimate load [lbf]

L = effective embedment length [in]

$k = 17$ factor for post-installed anchor

$\sqrt{f_{c'}}$ = concrete shear stress [psi]

$$L = 11"$$

$$k = 17$$

$$f_{c'} = 4000 \text{ psi}$$

compute F_u :

$$F_u = 39200 \text{ lbf} = 39.2 \text{ kips}$$

For a forming application the Safe Load is

$$F_u/2 = 19.6 \text{ kips}$$

$$\text{The drill hole depth is } 11" + 5" = 16"$$

Safe working load = F_u / safety factor

Drill hole depth:

Add up expansion shell length (approx. 5") and effective embedment length



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