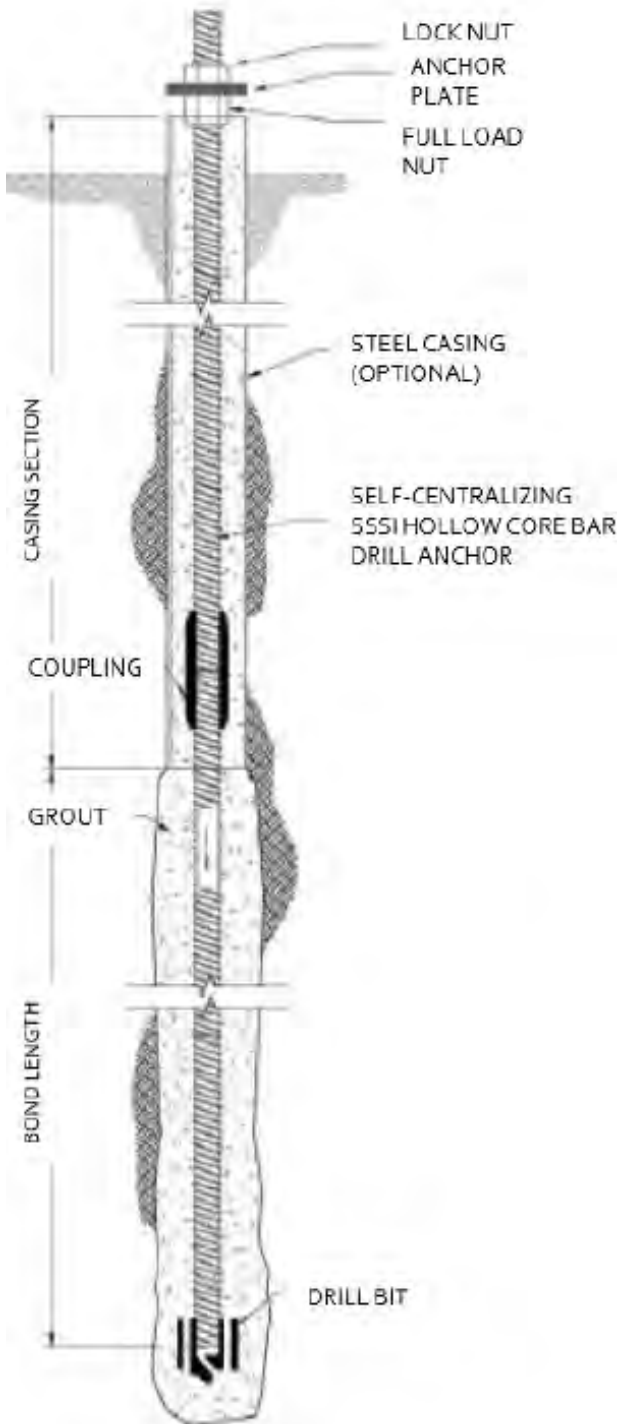




# SSSI

Stressbar Steel Systems International

## STRESSBAR STEEL SYSTEMS INTERNATIONAL, INC.



### *ENGINEERED SYSTEMS*



The use of Hollow Core Bars, or Self-Drilling bars, is becoming more popular in the Deep Foundations field. From tiebacks and tiedowns in support of excavation applications, to piles in structural foundations, the use of Hollow Core Bars is expanding.

Stressbar Steel Systems International, Inc. (SSSI), offers full-length threaded, high capacity, Hollow Core Bars, ranging from 1-1/2" (38 mm) nominal, to 5-5/16" (135 mm). Our Super Hollow Core Bars - T103/51, T135/75, & T130/60, have greater steel areas, which significantly increase pile load capacities. Consequently, they efficiently reduce the required number of drilled holes in a given site. SSSI's Hollow Core Bars have been successfully used in projects accomplishing design compression load capacities up to 300 tons. As an added benefit, SSSI's in-house engineering staff with over 25 years of experience in the Deep Foundations field can provide value engineering services for optimizing any of your upcoming projects.

Please contact us with your inquiries at [info@stressbarsystems.com](mailto:info@stressbarsystems.com)



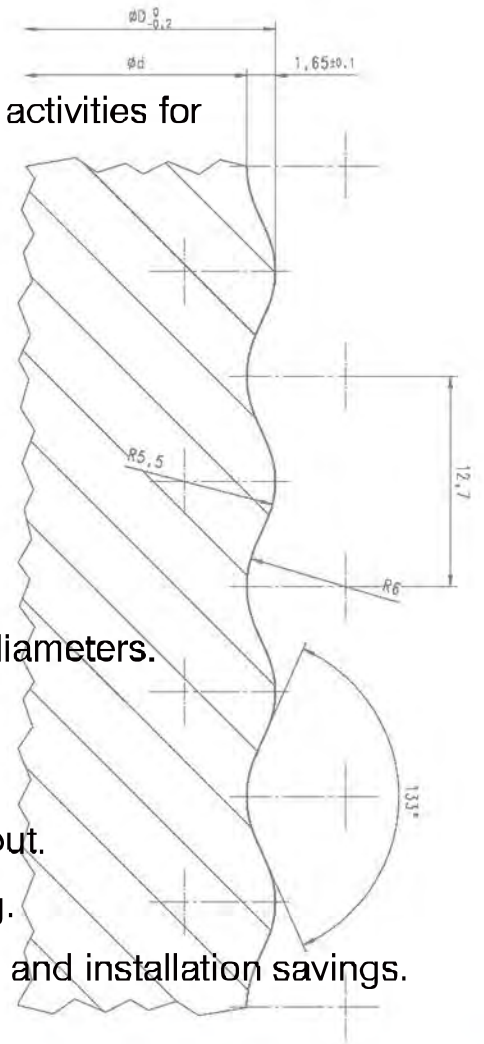


## **HOLLOW CORE BAR APPLICATIONS:**

- o Stabilization of side walls in support of excavation (SOE) activities for deep excavations.
- o Roof support for tunnels.
- o Support of underpinning on existing buildings.
- o Slope stabilization.
- o Pile foundations.
- o Rock and soil anchors.

## **HOLLOW CORE BAR ADVANTAGES:**

- o Drill bits provide fast drilling while maintaining drill-hole diameters.
- o Drilling, grouting, and installing, all in one operation.
- o Large diameter drill bits.
- o Rotation while drilling increases soil bond strength to grout.
- o They allow for drilling without a conventional steel casing.
- o Enhanced drilling speed translates into faster production and installation savings.





# HOLLOW CORE BAR

SSSI HOLLOW CORE BAR		Nominal Outer Diameter		Nominal Inner Diameter		Area		Weight		Ultimate Strength		TENSILE YIELD POINT		GRADE
Part Number	BAR SIZE	in	mm	in	mm	in <sup>2</sup>	mm <sup>2</sup>	lbs / ft	kg / m	Kips	kN	Kips	kN	KSI
HC3823B	RB38/23	1.50	38	0.91	23	0.99	640	3.4	5.0	119.1	530	95.5	425	96
HC5134B	RB51/34	2.01	51	1.34	34	1.58	1020	5.4	8.0	188.8	840	155.1	690	98
HC6347B	RB63/47	2.48	63	1.85	47	2.11	1360	7.2	10.7	260.8	1160	209.1	930	99
HC7658B	RB76/58	2.99	76	2.28	58	2.88	1860	9.8	14.6	310.2	1380	247.3	1100	86
HC10383B	TB103/83	4.06	103	3.27	83	3.91	2520	13.3	19.8	359.7	1600	287.7	1280	74
HC10379B	TB103/79	4.06	103	3.11	79	4.78	3080	16.3	24.2	445.1	1980	357.4	1590	75
HC10352S	TB103/52	4.06	103	2.05	52	8.54	5510	29.1	43.3	822.8	3660	600.2	2670	71
HC13094S	TB130/94	5.12	130	3.70	94	9.58	6180	32.6	48.5	899.9	4003	720.0	3203	75
HC13067S	TB130/67	5.12	130	2.64	67	14.79	9540	50.3	74.9	1784.9	7940	1180.2	5250	80
HC13582S	TB135/82	5.31	135	3.23	82	13.02	8400	44.3	65.9	1213.9	5400	971.1	4320	75

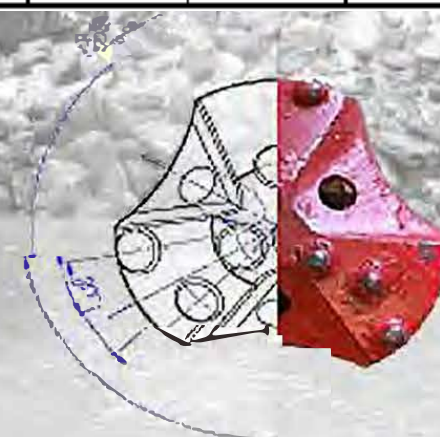


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# ACCESSORIES

## COUPLERS



# SSSI

Stressbar Steel Systems International

### SSSI - HOLLOW CORE SELF DRILLING BAR

#### COUPLER

PART NO.	THD	NOM. BAR SIZE		DIR.	OD		LENGTH		WEIGHT	
		OD (mm)	ID (mm)		mm	in	mm	in	Kg	Lbs
C38160MB	RB	38	23	LHT	54	2.13	160	6.30	1.2	2.6
C38160MB	RB	51	28	LHT	63	2.48	200	7.87	1.9	4.2
C63220MB	RB	63	43	LHT	80	3.15	220	8.66	3.8	8.4
C76250MB	RB	76	56	RHT	95	3.74	230	9.06	4.6	10.1
C103250MB	TB	103	78	RHT	127	5.00	250	9.84	8.9	19.6
C103250MB	TB	103	83	RHT	127	5.00	250	9.84	8.9	19.6
C103290MC	TB	103	51	RHT	133	5.24	290	11.42	13.4	29.5
C135330MB	TB	135	75	LHT	168	6.61	330	12.99	27.0	59.4
C130300MC	TB	130	60	RHT	168	6.61	300	11.81	22.0	48.4





# SPHERICAL NUTS

SSSI SPHERICAL NUT		Shape	Nominal Diameter		S.Nut Key Size		Length		Weight	
Part Number	BAR SIZE		in	mm	in	mm	in	mm	lbs / ft	kg / m
SN3815B	RB38/23	*	1.50	38	2.22	55	2.36	60	2.0	0.9
SN5128B	RB51/28	*	2.00	51	3.00	75	2.76	70	4.9	2.2
SN6343B	RB63/43	*	2.48	63	3.52	90	4.04	103	8.6	3.9
SN7656B	RB76/56	**	2.99	76	4.12	105	2.79	71	5.3	2.4
SN10383B	TB103/83	**	4.05	103	5.73	145	3.86	98	14.3	6.5
SN10378B	TB103/78	**	4.05	103	5.73	145	3.86	98	14.3	6.5
SN10351S	TB103/51	**	4.05	103	4.93	125	5.13	130	12.4	5.6
SN13575B	TB135/75	**	5.31	135	6.69	170	4.24	108	17.6	8.0
SN13060S	TB130/60	**	5.11	130	6.90	175	6.90	175	43.43	19.7

## Button Drill Bit Widia (Carbide)

Button Drill Bits - Widia (Carbide Inserts)								
Drill Bit Outside Diameter	BAR SIZE							
	OD	38	51	63	76	103	135	130
	ID	15	28	43	56	83	75	60
mm	76							
in	2.99	X	X					
mm	90							
in	3.54	X	X	X				
mm	110							
in	4.33		X					
mm	115							
in	4.53	X	X	X	X			
mm	130							
in	5.12		X		X			
mm	150							
in	5.91		X	X	X	X		
mm	200							
in	7.87			X	X	X	X	
mm	220							
in	8.66				X	X	X	X
mm	230							
in	9.06			X	X	X	X	X
mm	250							
in	9.84				X	X	X	X
mm	300							
in	11.81				X	X	X	X

**Note:**  
Depending on the type of soil, the effective drilled hole diameter can be increased by 2"





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VALUE ENGINEERING CONCEPTS THAT HAVE REVOLUTIONIZED THE CONSTRUCTION INDUSTRY



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