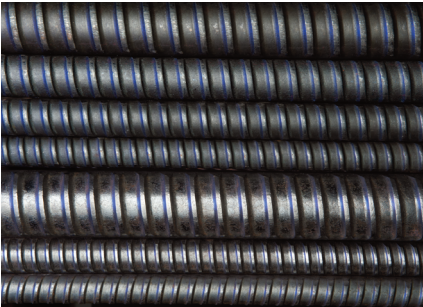




CTS™/IBO™ Hollow Bar
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FCS Can Ltd. is a registered Canadian company established 2018 to rent and sell concrete forming and shoring to concrete formwork contractors.

In 2023, FCS Can Ltd. experienced a pivotal transformation. Con-Tech Systems Ltd., a leading supplier of geo-support systems, entered receivership. Thanks to close ties between the ownership of Con-Tech Systems and FCS Can Ltd., we were well-positioned to assist in the transition, allowing us to acquire significant parts of Con-Tech's business. This included hiring two of their experienced employees and leveraging the expertise of our CEO, who had previously served as COO of Con-Tech Systems Ltd.

As of the end of 2024, FCS Can Ltd. has successfully completed its first year in the geo-support industry. We have steadily expanded our customer base and established strong relationships with key suppliers, enabling us to consistently deliver reliable and high-quality products. This progress marks FCS Can Ltd. as a trusted and dependable partner in the construction and geo-support sectors

Current Geotechnical Product Lines

- CTS™/IBO™ hollow bar system
- Solid bar system
- Hydraulic jack (rental and sale)
- Fibre Glass Anchors, limited sizes available
- Concrete sensors (curing and strength)
- Strand anchor materials

At this time our systems are sourced non USA domestic

Future products

- Strand Anchors (SCP and DCP)

CTS™/IBO™ Hollow Bar System Information and Technical Data

CTS™/IBO™ Hollow Bar

- Hollow bars are commonly used as Soilnails, Anchors and Micro-piles.
- Each CTS™/IBO™ hollow bar heat is tested in a certified North American Lab. The test certificate is provided with every shipment.
- CTS™/IBO™ hollow bars are available in low carbon steel
- CTS™/IBO™ hollow bar couplers come with a middle stop.

R-Thread Bars

Bar Size	Inner Diameter	Cross-section (nominal)	Ultimate Load (minimum)	Yield Load (minimum)	Weight	
mm	mm	mm ²	kN	kN	lbs/bar	
			kips	kips		
R25N	14	244	200	150	14.52	40Cr
			45	33.75		
R32N	22	340	210	160	17.82	40Cr
			47.25	36		
	21	405	280	230	19.14	40Cr
			63	51.75		
	18.5	438	320	250	21.12	40Cr
			72	56.25		
R32S	16	464	360	280	23.76	40Cr
			81	64		
R32SS	15	488	405	350	27.06	40Cr
			91.125	78.75		
R38N	21	640	500	400	31.68	40Cr
			112.5	90		
	19	717	500	400	36.3	40Cr
			112.5	90		
R51L	36	776	550	450	50.16	40Cr
			123.75	101.25		
R51N	33	1111	800	630	55.44	40Cr
			180	141.75		
R51S	30	1280	840	650	61.71	40Cr
			189	146.25		

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

CTS™/IBO™ Hollow Bar System Information and Technical Data

T-Thread Bars

Bar Size	Inner Diameter	Cross-section (nominal)	Ultimate Load (minimum)	Yield Load (minimum)	Weight	
mm	mm	mm ²	kN	kN	lbs/bar	
			kips	kips		
T30	11	446	320	260	21.78	40Cr
			72	58.5		
	14	395	275	220	18.942	40Cr
			61.875	49.5		
	16	382	245	190	17.82	40Cr
			55.125	42.75		
T40	16	974	660	525	46.2	40Cr
			148.5	118.12		
	20	848	540	425	39.6	40Cr
			121.5	95.6		
T52	26	1337	925	730	65.142	40Cr
			208	164.2		
T73	45	2410	1585	1270	117.48	40Cr
			356	285.7		
	53	1958	1160	970	93.06	40Cr
			261	218.25		
	56	1691	1035	830	70.95	40Cr
			232.8	186.75		
T76L	54	2090	1200	1000	102.828	40Cr
			270	225		
T76N	51	1835	1600	1200	108.9	40Cr
			360	270		
T76S	45	2400	1900	500	130.02	40Cr
			427.5	337.5		
T103	78	3238	2270	1800	166.98	40Cr
			510	405		
	51	5501	3660	2670	294.36	40Cr
			823.5	600		
T130	60	9540	7940	5250	495	40Cr
			1786.5	1181.25		

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

Hot Rolled Thread Bars

- FCS Can Ltd.offers a variety of hollow ram jacks for stressing strand and bar anchors,
- Sizes range from 25 ton to 800 ton,
- Calibrated rental kits included jacks, hydraulic pumps, gauges and hoses.
- Carbon fiber light weight jacks are available for sale.
- Please call us with your specific requirements.

Jack Size	Stroke	Recommended Load @10,000psi	Center Hole I. D	Cylinder O. D	Height Collapsed	Material	Weight lbs
25	3"	25 Ton	0.70"	4.25"	8.00"	Alum	10
100	8.0"	100 Ton	3.50"	10.00"	16.00"	Alum	120
120	6.0"	120 Ton	3.50"	9.50"	14.00"	Alum	80
200	9.0"	200 Ton	3.50"	12.00"	19.00"	Alum	200
300	18.0"	300 Ton	5.25"	14.00"	27.50"	Steel	875
300	18.00"	300 Ton	5.25"	14.00"	34.00"	Steel	1350
500	14.00"	500 Ton	8.00"	20.00"	27.50"	Steel	1830
800	14.00"	800 Ton	9.50"	26.50"	32.50"	Steel	3600

Other sizes available on request

Loading to be verified with calibration. Calibration certificate can be supplied if required.

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

Hot Rolled Thread Bars

- FCS Can offers hot rolled thread bar. Grade 80 and 100 bars are produced in Canada.
- Main application of Thread Bars are
 - **Geotechnical Applications:** soil nails, micropiles, pre-stressed rock and soil anchors
 - **Mining and Tunneling:** anchors for roofs and side walls
- Hot rolled Thread Bars are one of the strongest, simplest and most robust steel systems in the industry.
- The continuous hot rolled thread along the entire length of the bar allows the bars to be cut, spliced and anchored with couplers or nuts at any point along the bar.
- The two flat sides on the bar eliminate jamming of nuts and couplers.

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

FCS Can Solid Bar Information and Technical Data

Grade 80, Left Hand Thread, ASTM A615/18

Size #	Nominal Diameter		Maximum OD		Area		Weight		Yield Load		Ultimate Strength		Elongation %
	in	mm	in	mm	in ²	mm ²	lbs/ft	kg/m	kips	kN	kips	kN	
7	7/8"	22	0.980	24.90	0.60	387	2.04	3.04	48	213	63	280	9
8	1"	25	1.106	28.10	0.79	510	2.60	3.97	63	280	83	359	9
9	1-1/8"	28	1.236	31.40	1.00	645	3.25	5.06	80	355	105	467	8
10	1-1/4"	32	1.413	35.90	1.27	819	4.25	6.40	102	452	133	590	8
11	1-3/8"	36	1.587	40.30	1.56	1006	5.37	8.00	125	553	163	690	8
14	1-3/4"	43	1.886	47.90	2.25	1452	7.65	11.38	180	798	236	1019	8
18	2-1/4"	57	2.465	62.60	4.00	2581	13.60	20.24	320	1420	420	1860	8
20	2-1/2"	63.5	2.717	69	4.91	3168	16.71	24.65	393	1748	515	2230	8
24	3"	75	3.209	81.50	6.85	4418	23.27	34.68	548	2429	719	3090	8
28	3-1/2"	90	3.880	98.50	9.61	6200	32.70	48.65	769	3420	1009	4488	8
32	4"	100	4.290	109.00	12.17	7852	41.40	61.80	974	4331	1278	5684	8

Grade 100, Right Hand Thread, ASTM A615/18

Size #	Nominal Diameter		Maximum OD		Area		Weight		Yield Load		Ultimate Strength		Elongation %
	in	mm	in	mm	in ²	mm ²	lbs/ft	kg/m	kips	kN	kips	kN	
7	7/8"	22	0.953	24.20	0.59	380	2.00	2.98	59	255	68	304	9
8	1"	25	1.083	27.50	0.76	491	2.59	3.85	76	329	88	393	9
9	1-1/8"	28	1.228	31.20	0.95	616	3.25	4.83	95	413	111	493	8
10	1-1/4"	30	1.319	33.50	1.10	707	3.73	5.55	110	474	127	565	8
11	1-3/8"	35	1.543	39.20	1.49	962	5.07	7.55	149	645	173	770	8
14	1-3/4"	43	1.886	47.90	2.25	1452	7.65	11.38	225	973	261	1162	8
18	2-1/4"	57	2.472	62.80	4.00	2581	14.08	20.95	400	1740	467	2077	8
20	2-1/2"	63.5	2.717	69	4.91	3167	16.68	24.86	491	2122	570	2534	8
24	3"	75	3.209	81.50	6.85	4418	23.27	34.68	685	2960	795	3535	8

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

All values nominal. Actual load values to be taken from Mill Certs.

Subject to change without notice

FCS Can Solid Bar Information and Technical Data

Grade 150, Right Hand Thread, ASTM A722

Nominal Diameter	Maximum O.D		Area		Weight		Yield Load		Ultimate		Elongation		Max Jacking Load (80% of Ultimate)		Max Design Load (60% of ultimate)	
in	mm	in	mm	in ²	mm ²	lbs/ft	kg/m	kips	kN	kips	kN	%	kips	kN	kips	kN
1"	26	1.200	30.50	0.85	548	3.01	4.48	102	453	127	565	7	102	452	76	339
1-1/4"	32	1.429	36.30	1.25	806	4.39	6.54	150	667	188	836	7	150	669	113	502
1-3/8"	36	1.626	41.30	1.58	1019	5.59	8.28	190	845	237	1054	7	190	843	142	632
1-3/4"	46	2.075	52.70	2.69	1735	9.47	14.10	323	1435	403	1792	7	322	1434	242	1075
2-1/4"	57	2.465	62.60	4.00	2581	14.08	20.95	480	2135	600	2668	7	480	2134	360	1601
2-1/2"	65	2.811	71.40	5.16	3331	18.20	27.10	620	2757	774	3442	7	619	2754	464	2065
3"	75	3.209	81.50	6.85	4418	24.12	35.90	822	3656	1028	4572	7	822	3658	617	2743

All values nominal. Actual load values to be taken from Mill Certs.

Conversions: 1mm=0.0398in • 1mm²=0.00155 in² • 1kg=2.2lbs

FRP, Fibre Reinforced Polymere, Products

- FCS Can offers FRP, commonly referred to as Fibre Glass (GFRP), products for various applications. Products include FRP Re-bar, FRP Anchor Bolts, FRP Hollow bar as well as FRP Mats
- Main application of FRP products
 - **Geotechnical Applications:** soil nails, micropiles, pre-stressed rock and soil anchors. FCS Can is developing connections between CTS/IBO Hollow Bars and FRP Hollow bars, as well as between FCS Solid bars and FRP Solid Bars
 - **Mining and Tunneling:** anchors for roofs and side walls
- FCS FRP products are tested in Canada, and have ICC-ES ESR and EER certification for bar sizes from 6mm to 19 mm
- FCS FRP products are manufactured in China or the USA
- FCS FRP Supplier is a Canadian company

Comparison between FRP and Steel bars

Bar Type	Tensile Strength MPa	Modulus of Elasticity GPa	Bond Strength MPa	Density kg/m ³
SFT-Bar (ASTM D7957)	850 - 1250	46 - 70	15	1,200-2,100
Stainless Steel (ASTM A955)	560	200	10	7,850-7,900
Steel (ASTM 615)	560	200	10	7,900

SFT-Bar® G60 Grade III

Resin type: Vinylester

Bar Size	Cross Section (nominal)		Modulus of Elasticity		Ultimate Load ⁽¹⁾		Shear Strength		Ultimate Strain
mm	mm ²		GPa		kN		Mpa		%
imp		sqin ²		ksi		kips		ksi	
6	32		(2)				186	26.98	1.5
#2		0.05							
10	71		72		87.83				
#3		0.11		10442.74		19.74			
13	127		70		183.13				
#4		0.20		10152.66		41.17			
16	198		71		242.75				
#5		0.31		10297.70		54.57			
20	285		68		365.09				
#6		0.44		9862.58		82.07			
22	388		70		471.81				
#7		0.60		10152.66		106.07			
25	507		68		612.46				
#8		0.79		9862.58		137.69			

- (1) Ultimate load calculated based on tensile strength and nominal cross section
- (2) Minimum specified tensile strength to be provided by manufacturer; value to be determined from qualification tests

G60 SFT-Bar® are Concrete Reinforcing Bars that can be used in most Concrete applications (such reinforcing bars can be considered for most primary or secondary structural applications) as defined by the CSA S807 & ASTM D7957/D7957M-22 (2022) standards.

SFT-Bar® Poly & G40 Grade I

Resin type: G40 Vinylester

Poly: Polyester

Bar Size	Cross Section (nominal)		Modulus of Elasticity		Ultimate Load ⁽¹⁾		Shear Strength		Ultimate Strain
mm	mm ²		GPa		kN		Mpa		%
imp		sqin ²		ksi		kips		ksi	
6	32		52		30.78		173	25.09	1.5
#2		0.05		7541.98		6.92			
10	71		50		64.26				
#3		0.11		7251.90		14.45			
13	127		49		108.71				
#4		0.20		7106.86		24.44			
16	198		51		167.31				
#5		0.31		7396.94		37.61			
20	285		53		233.70				
#6		0.44		7687.01		52.54			
22	388		50		320.10				
#7		0.60		7251.90		71.96			
25	507		51		408.64				
#8		0.79		7396.94		91.87			

(1) Ultimate load calculated based on tensile strength and nominal cross section

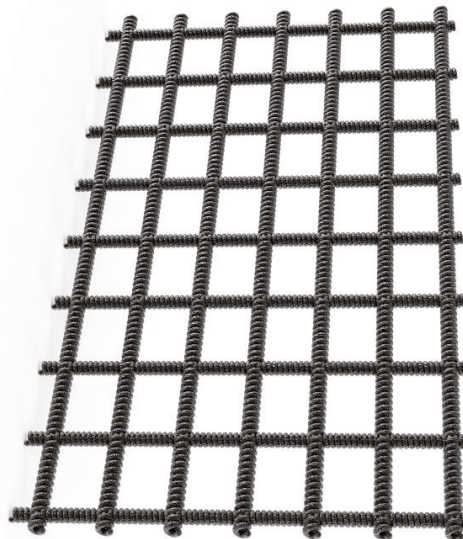
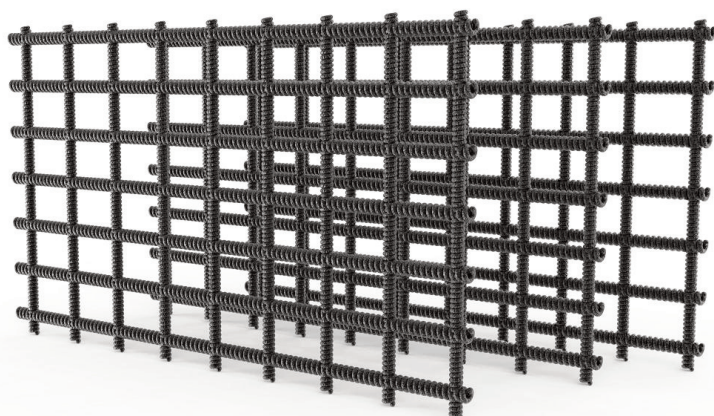
Polyester and G40 SFT-Bar® are Concrete Reinforcing Bars that are meant to be used exclusively in non-structural Concrete Building applications (such reinforcing bars should not be considered for any primary or secondary structural applications) as defined by the CSA S807 & ASTM D7957/D7957M-22 (2022) standards.

FRP Grid

Materials: GFRP/BFRP

Diameter: 6mm-20mm

Length & Width: Customized





FCS Finance Construction Support Canada Ltd.
#1 - 7047 Venture Street
Delta, BC V4G 1H8

www.fcscan.ca
info@fcscan.ca
(604) 946-5571
