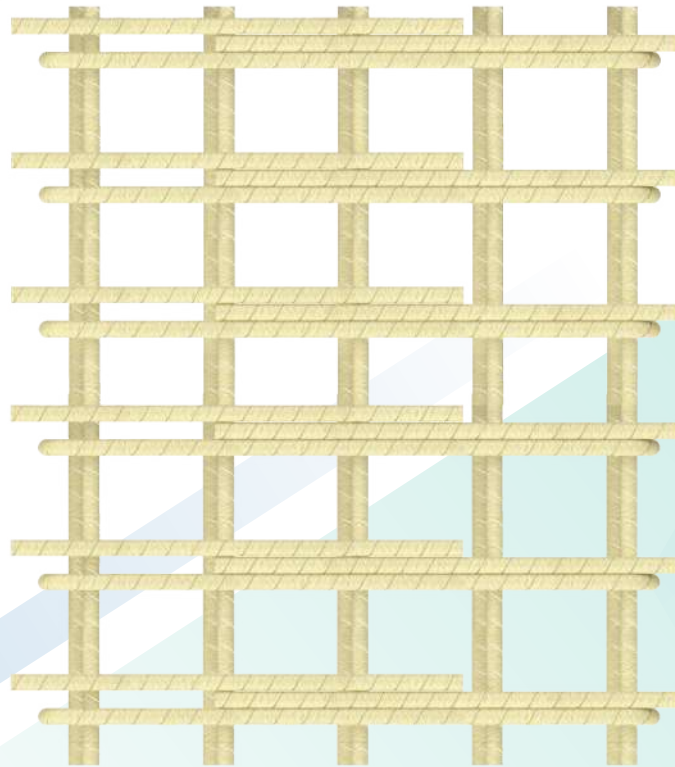


ASTEC

GLASS REBAR For Permanent Applications

Corrosion-free Alternative to Steel Rebar



Dextra

www.dextragroup.com

About Glass Rebar

Glass Rebar is a pultruded profile. Available in different grades and shapes. It provides designers with non-metallic reinforcing bar having high tensile strength.

Astec Glass Rebar can be used for both new construction or as strengthening material. Since 1996, DEXTRA has established new standards becoming the worldwide reference. Precursor of this technology, we have successfully supplied thousands of projects all around the world.

Standards

Design

- ACI.1R-15
- FIB Task Group 9.3 – Bulletin 40

Test

- ACI440-3R_12

Material specification

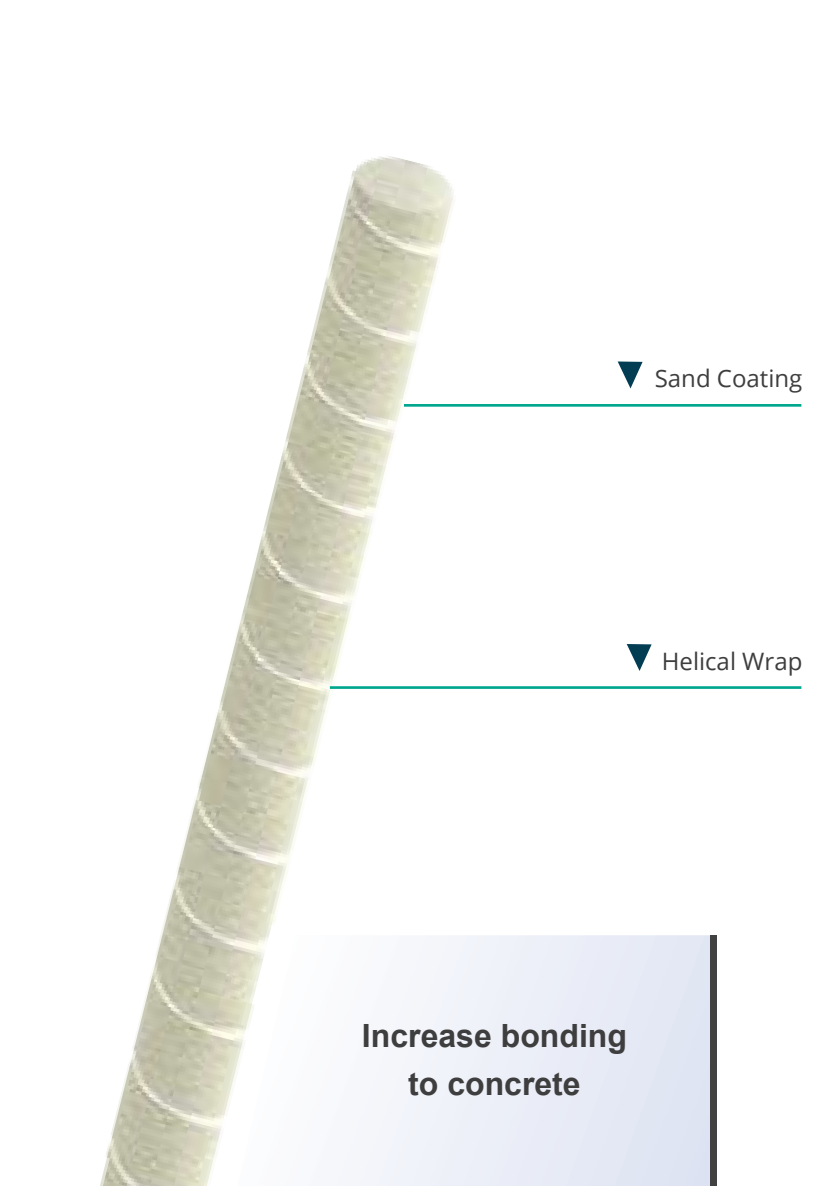
- ASTM D7957M

Key benefits

The main benefits are as follow:

- ✓ Greater tensile strength than steel
- ✓ 4 times lighter than steel
- ✓ Corrosion free
- ✓ Light weight
- ✓ Low Thermal conductivity
- ✓ Electrically non Conductive
- ✓ Transparent to magnetic fields and radio frequencies
- ✓ Long service life
- ✓ Superior durability, thanks to the usage of ECR-Glass and Vinylester resin.

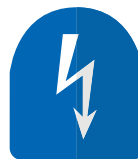
Product design & concept



Light Weight



Thermal Low Conductive



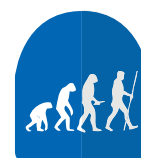
Electrically Non Conductive



Corrosion resistant

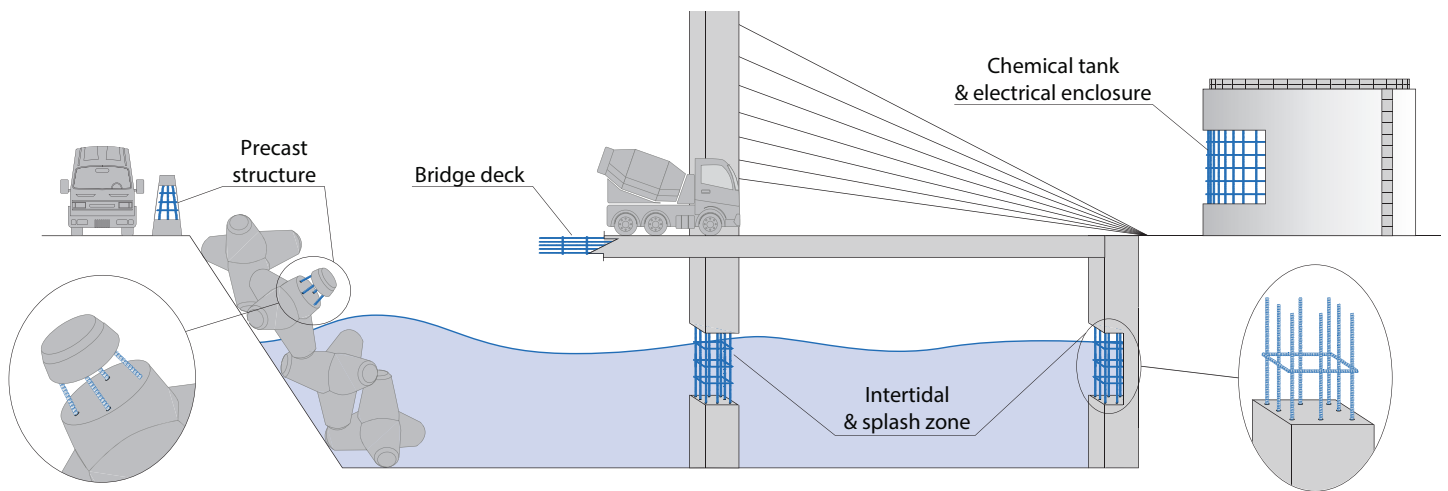


Tailored made shapes



Extended Service Life

Applications



Technical Information

Geometric x Mechanical properties - As per ASTM D7957

Grade		Nominal Cross Sectional Area	Linear Weight	ASTEC - GR45P Modulus of Elasticity = 45 GPa			ASTEC - GR50P Modulus of Elasticity = 50 GPa		
Dia	Nominal Diameter			Ultimate Tensile load	Ultimate Tensile Strength	Ultimate Tensile Strain	Ultimate Tensile load	Ultimate Tensile Strength	Ultimate Tensile Strain
mm	mm	mm ²	(kg/m)	kN	MPa	%	kN	MPa	%
6	6.4	32	0.07	29	910	2.02	29	920	1.84
10	9.5	71	0.16	64	900	1.85	65	910	1.82
13	12.7	127	0.24	115	900	1.68	114	900	1.80
16	15.9	199	0.41	176	880	1.61	177	890	1.78
19	19.1	284	0.60	242	850	1.52	250	880	1.76
22	22.2	387	0.77	318	820	1.43	333	860	1.72
25	25.4	510	0.98	403	790	1.41	428	840	1.68
29	28.7	645	1.30	478	740	1.32	529	820	1.64
32	32.3	819	1.60	590	720	1.22	631	770	1.54
41	41.3	1338	2.61	857	640	1.18	990	740	1.48



Sierrita de la Cruz Bridge, USA



Dry Dock facade rehabilitation, Hawaii, USA



Elizabeth Quay, Australia



Suvarnabhumi Airport, Thailand



Docks of Aramco, KSA



Flood Mitigation Channel Jazan, KSA



Dextra

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**Commercial presence
in more than
55 countries**