



INTRODUCTION

A Gantrex Anchor Bolt is a resin set anchor. It is installed by drilling a hole in the concrete deck, filling the hole with polyester resin, which acts as an adhesive, suspending a bolt in the resin and allowing the resin to cure, to complete the process. Unlike anchors using epoxy based resin, Gantrex anchors can be placed in temperatures as low as 10°F.

The bolt itself is an all-thread steel rod, complete with a nut and a washer. Bolts can be supplied in different diameters and lengths. The polyester-based resin supplied in US quart cans, can be poured directly from the container, into the hole.

MATERIALS

Anchor Bolt

Material: A36: Fy (min) = 36,000 psi Ft (min) = 58,000 psi
B7: Fy (min) = 105,000 psi Ft (min) = 125,000 psi
Finish: Zinc plated or hot dipped galvanized.
Freight classification: Class 50

Polyester-based resin

Packaging: Supplied in US quart cans, four cans per carton.
Freight classification: Resin Solution, Class 3, UN 1866, Packing Gp. III.

Catalyst

Packaging: Supplied in pill bottle type containers, four per carton, packaged separately.
Freight classification: Organic Peroxide, Type D solid (Dibenzoyl Peroxide,50%)5.2, UN 3106, Packing Gp. II.

PLACEMENT PROCEDURE

Holes are air-drilled in concrete deck, using a soleplate as template. The drilled holes are 1/8" greater in diameter, than the anchor bolt diameter. These holes are cleaned to remove dust and debris.

One container of catalyst is added to one can of polyester resin and mixed in the can for 60 seconds to 90 seconds. The mixture is poured into the hole, to about one third the depth. The anchor bolt is suspended from the soleplate, and placed in the resin in the hole. The resin cures and sets in about 1 hour. The anchor must not be disturbed during this time. Full cure occurs in 24 hours.

SUGGESTED EMBEDMENT

It is important that anchor bolts are embedded to a proper depth to achieve adequate strength. In 5 ksi concrete, for example, we suggest that A36 anchor bolts be embedded to at least 8 times their diameter (a 3/4" rod will require an embedded length of at least 6"). This is adequate to achieve enough bond with the concrete such that, in a pullout test, the anchor bolt will yield before the bond with the concrete. Similarly, the suggested embedment for B7 bolts is 12 times the bolt diameter.

ADHESIVE ANCHOR BOLTS

TECHNICAL INFORMATION

Gantrex Anchor Bolt Table										
Gantrex Anchor Bolt Part Number <i>Notes (1, 2)</i>	Bolt Diameter (inches)	Hole Diameter (inches)	Bolt Length (inches)	Embed. Length (inches)	Rod Assy. Wt. (lbs.) A36 <i>Note (3)</i>	Rod Assy. Wt. (lbs.) B7 <i>Note (3)</i>	Resin Vol./Bolt (cu. ins.) <i>Note (4)</i>	Resin Weight (lbs.)	Anchor Bolts per can	Anchor Bolts / carton
AB 5/8 x 10-A36*	5/8	3/4	10	6	0.86	0.91	1.38	0.12	33	133
AB 5/8 x 12-A36*			12	8	1.01	1.05	1.85	0.16	25	99
AB 5/8 x 14-A36*			14	10	1.16	1.20	2.31	0.20	20	80
AB 3/4 x 10-A36*	3/4	7/8	10	6	1.16	1.24	1.94	0.16	24	95
AB 3/4 x 12-A36*			12	8	1.36	1.43	2.59	0.22	18	71
AB 3/4 x 14-A36*			14	10	1.56	1.63	3.23	0.27	14	57
AB 3/4 x 16-A36*			16	12	1.76	1.83	3.88	0.33	12	47
AB 7/8 x 12-A36*	7/8	1	12	8	1.92	2.03	3.07	0.26	15	60
AB 7/8 x 14-A36*			14	10	2.20	2.31	3.84	0.33	12	48
AB 7/8 x 16-A36*			16	12	2.48	2.59	4.61	0.39	10	40
AB 7/8 x 18-A36*			18	14	2.76	2.86	5.37	0.46	9	34
AB 1 x 12-A36*	1	1 1/8	12	8	2.54	2.68	3.72	0.32	12	49
AB 1 x 14-A36*			14	10	2.90	3.04	4.65	0.39	10	39
AB 1 x 16-A36*			16	12	3.26	3.40	5.58	0.47	8	33
AB 1 x 18-A36*			18	14	3.62	3.76	6.51	0.55	7	28
AB 1 1/4 x 14-A36*	1 1/4	1 3/8	14	10	4.73	4.97	6.03	0.51	8	30
AB 1 1/4 x 16-A36*			16	12	5.30	5.55	7.24	0.61	6	25
AB 1 1/4 x 18-A36*			18	14	5.88	6.12	8.45	0.72	5	22
AB 1 1/4 x 20-A36*			20	16	6.46	6.70	9.65	0.82	5	19

NOTES:

- 1) Replace A-36 with B7 for high strength material.
- 2) Suffix with 'Z' for Zinc plated or 'G' for hot dipped galvanized.
- 3) Rod assembly consists of one rod + 1 nut + 1 washer.
- 4) Resin volume shown includes 50% for waste.

HOW TO SPECIFY AND ORDER

1. To specify and order a Gantrex adhesive anchor bolt assembly, determine the correct diameter and length.
2. Determine correct part number from the above table and notes. For example, AB 1x14-A36G would be the part number for a 1" x 14" long, diameter bolt of A36 material, with one nut and one washer, all hot dipped galvanized.
3. If substrate temperature is likely to be below 45°F, at time of actual installation, please double the quantity of catalyst, at time of order placement.

While the steel hardware can be shipped at any time, due to the nature of the resin/catalyst system, it is recommended that the adhesive be shipped 3-4 weeks prior to actual installation.

GANTREX reserves the right to discontinue or change specifications at any time without prior notice and without incurring any obligation whatsoever.



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