

The following material is necessary to build the team version of the 2006 *FIRST* Robotics Competition field elements.

**FIRST Robotics Competition 2006 Advance Material List**

Rev. 4 01/03/06

Item	Material	Quantity	Cost/ea	Ext. Cost	Source
1	4ft x 8 ft x 1/8 in thick polycarbonate (Lexan)**	2	\$224.00	\$448.00	
2	1/4 in x 4 ft. x 8 ft. Plywood or Luan	2	\$14.97	\$29.94	Home Depot
3	1/2 in. x 4 ft. x 8 ft. Plywood	3	\$21.99	\$65.97	Home Depot
4	3/4 in x 4 ft. x 8 ft. Plywood	1	\$26.96	\$26.96	Home Depot
5	1 in. x 3 in. x 8 ft. (#2) SPF Lumber*	8	\$1.97	\$15.76	Home Depot
6	1 in. x 5 in. x 8 in. (#2) SPF Lumber*	1	\$4.95	\$4.95	Home Depot
7	2 in. x 3 in. x 8 ft. SPF Lumber*	6	\$1.59	\$9.54	Home Depot
8	2 in. x 4 in. x 8 ft. SPF Lumber*	17	\$2.70	\$45.90	Home Depot
9	2 in. x 4 in. x 10 ft. SPF Lumber*	2	\$3.76	\$7.52	Home Depot
10	#7 1-5/8 in. deck screws (1pound box)	2	\$6.97	\$13.94	Home Depot
11	#8 2-1/2 in. deck screws (1 pound box)	2	\$6.97	\$13.94	Home Depot
12	1 in. fine thread drywall screw (package)	1	\$4.31	\$4.31	Home Deopt
13	.063 in x 48 in. x 96 in. 3003-H22/24 TP aluminum tread plate (diamond plate)**	1	\$110.00	\$110.00	Home Depot sells small sheets, or buy the larger size from a sheet metal supply
14	3/8-16 x 4 carriage bolt	8	\$0.56	\$4.48	Home Depot or hardware store
15	3/8 in. flat washer	8	\$0.08	\$0.64	Home Depot or hardware store
16	3/8-16 nuts	8	\$0.08	\$0.64	Home Depot or hardware store
*Note: US dimensional lumber SPF (Spruce, Pine or Fir) actual size is smaller than its name, for instance:					
1 in. x 3 in. is approx. 3/4 in. x 2 1/2 in.					
2 in. x 3 in. is approx. 1 1/2 in. x 2 1/2 in.					
**Note: These are expensive components and duplicate the actual playing field. They are not structurally necessary and similar material or smaller pieces can be used to simulate the actual field performance.					