

INCH-POUND

MIL-DTL-46192C(MR)
AMENDMENT 1
7 February 2000

DETAIL SPECIFICATION

ALUMINUM ALLOY ARMOR ROLLED PLATE (1/2 TO 4 INCHES THICK),
WELDABLE (ALLOY 2519)

This amendment forms a part of MIL-DTL-46192C(MR), dated 28 August 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 9

Table V: Delete the footnote (a).

PAGE 22

Add as new table:

The attached TABLE A-V.

PAGE 23

Add as new table:

The attached TABLE A-VI.

Custodian:
Army - MR

Preparing activity:
Army - MR

Review activities:
Army - AR, AT, TE
DLA - IS

(Project 9535-A640)

AMSC N/A

1 of 3

FSC 9535

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-DTL-46192C(MR)

APPENDIX A

TABLE A-V. Minimum required ballistic limits - caliber .50 AP M2 projectiles versus 2519 aluminum plate at 0° obliquity.

Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps
1.400	1988	1.800	2312	2.200	2596	2.600	2853
1.410	1997	1.810	2320	2.210	2603	2.610	2859
1.420	2005	1.820	2327	2.220	2610	2.620	2865
1.430	2014	1.830	2335	2.230	2617	2.630	2871
1.440	2023	1.840	2342	2.240	2623	2.640	2877
1.450	2031	1.850	2349	2.250	2630	2.650	2883
1.460	2040	1.860	2357	2.260	2636	2.660	2889
1.470	2048	1.870	2364	2.270	2643	2.670	2895
1.480	2057	1.880	2372	2.280	2650	2.680	2902
1.490	2065	1.890	2379	2.290	2656	2.690	2908
*1.500	2074	1.900	2386	2.300	2663	2.700	2914
1.510	2082	1.910	2394	2.310	2669	2.710	2920
1.520	2090	1.920	2401	2.320	2676	2.720	2926
1.530	2099	1.930	2408	2.330	2682	2.730	2931
1.540	2107	1.940	2415	2.340	2689	2.740	2937
1.550	2115	1.950	2423	2.350	2695	2.750	2943
1.560	2123	1.960	2430	2.360	2702	2.760	2949
1.570	2132	1.970	2437	2.370	2708	2.770	2955
1.580	2140	1.980	2444	2.380	2715	2.780	2961
1.590	2148	1.990	2451	2.390	2721	2.790	2967
1.600	2156	2.000	2458	2.400	2728	2.800	2973
1.610	2164	2.010	2465	2.410	2734	2.810	2979
1.620	2172	2.020	2472	2.420	2740	2.820	2985
1.630	2180	2.030	2479	2.430	2747	2.830	2991
1.640	2188	2.040	2487	2.440	2753	2.840	2996
1.650	2196	2.050	2494	2.450	2759	2.850	3002
1.660	2204	2.060	2501	2.460	2766	2.860	3008
1.670	2212	2.070	2507	2.470	2772	2.870	3014
1.680	2220	2.080	2514	2.480	2778	2.880	3020
1.690	2228	2.090	2521	2.490	2785	2.890	3025
1.700	2235	2.100	2528	2.500	2791	2.900	3031
1.710	2243	2.110	2535	2.510	2797	2.910	3037
1.720	2251	2.120	2542	2.520	2803	2.920	3043
1.730	2259	2.130	2549	2.530	2810	2.930	3048
1.740	2266	2.140	2556	2.540	2816	2.940	3054
1.750	2274	2.150	2563	2.550	2822	2.950	3060
1.760	2282	2.160	2569	2.560	2828	2.960	3066
1.770	2289	2.170	2576	2.570	2834	2.970	3071
1.780	2297	2.180	2583	2.580	2841	2.980	3077
1.790	2304	2.190	2590	2.590	2847	2.990	3083
						**3.000	3088

* Specification requirements begin for ordered thickness 1.500 inches.

** Specification requirements end for ordered thickness 3.000 inches.

MIL-DTL-46192C(MR)

APPENDIX A

TABLE A-VI. Minimum required ballistic limits – 14.5mm BS41 projectiles versus 2519 aluminum plate at 0° obliquity.

Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps	Thickness (inches)	Required BL(P) fps
2.900	2743	3.200	2903	3.500	3056	3.800	3201
2.910	2748	3.210	2909	3.510	3061	3.810	3206
2.920	2754	3.220	2914	3.520	3066	3.820	3211
2.930	2759	3.230	2919	3.530	3071	3.830	3215
2.940	2765	3.240	2924	3.540	3076	3.840	3220
2.950	2770	3.250	2929	3.550	3081	3.850	3225
2.960	2776	3.260	2935	3.560	3085	3.860	3229
2.970	2781	3.270	2940	3.570	3090	3.870	3234
2.980	2786	3.280	2945	3.580	3095	3.880	3239
2.990	2792	3.290	2950	3.590	3100	3.890	3243
*3.000	2797	3.300	2955	3.600	3105	3.900	3248
3.010	2803	3.310	2960	3.610	3110	3.910	3253
3.020	2808	3.320	2965	3.620	3115	3.920	3257
3.030	2814	3.330	2970	3.630	3120	3.930	3262
3.040	2819	3.340	2976	3.640	3124	3.940	3267
3.050	2824	3.350	2981	3.650	3129	3.950	3271
3.060	2830	3.360	2986	3.660	3134	3.960	3276
3.070	2835	3.370	2991	3.670	3139	3.970	3281
3.080	2840	3.380	2996	3.680	3144	3.980	3285
3.090	2846	3.390	3001	3.690	3149	3.990	3290
3.100	2851	3.400	3006	3.700	3153	**4.000	3294
3.110	2856	3.410	3011	3.710	3158	4.010	3299
3.120	2862	3.420	3016	3.720	3163	4.020	3304
3.130	2867	3.430	3021	3.730	3168	4.030	3308
3.140	2872	3.440	3026	3.740	3173	4.040	3313
3.150	2877	3.450	3031	3.750	3177	4.050	3317
3.160	2883	3.460	3036	3.760	3182	4.060	3322
3.170	2888	3.470	3041	3.770	3187	4.070	3326
3.180	2893	3.480	3046	3.780	3192	4.080	3331
3.190	2898	3.490	3051	3.790	3196	4.090	3336

* Specification requirements begin for ordered thickness 3.000 inches.

** Specification requirements end for ordered thickness 4.000 inches.