INCH-POUND

MIL-DTL-46063H
Amendment 2
12 June 2000
SUPERSEDING
MIL-DTL-46063H(1)
26 August 1999

DETAIL SPECIFICATION

ARMOR PLATE, ALUMINUM ALLOY, 7039

This amendment forms a part of MIL-DTL-46063, dated 14 September 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

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3.7.1.1 Thickness. Footnote 1/ Delete the Derived plus tolerance "0.000 inch" value cited in line 4 of the illustrative example and replace it with a Derived plus tolerance value of "0.060 inch".

Footnote 1/ A new substituted replacement demonstrates the calculation for the allowed "Plus" thickness. This new example illustrates the plus tolerance on a 1.000 inch thick by 73.000 inch wide plate as follows:

Thickness tolerance (from ANSI H35.2)	+ 0.047 inch
Tolerance value shown in minus column	0.035 inch
Full tolerance less minus tolerance	0.094 inch – 0.035 inch = 0.059 inch
Derived plus tolerance	0.059 inch

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A.3.1 Delete entire paragraph and substitute the following new paragraph:

"A.3.1 Complete penetration, CP (P). A complete penetration occurs when the impacting projectile, or any fragment thereof, or any fragment of the test specimen passes beyond the back of the test plate and perforates the witness plate, resulting in a crack or hole which permits light passage when a 60-watt, 110-volt bulb is placed behind and proximate to the witness plate. In addition, any backspall which is dislodged off the back of the plate by a fragment-simulating projectile impact and which hits the witness sheet will be considered to be complete penetration whether or not the witness sheet is perforated.

A.3.4 Insert the word "fair" after the first word in the first sentence, which follows the title paragraph heading "A3.4 Partial penetration, (PP)." The replacement paragraph will now read as follows:

"A.3.4 Partial penetration, PP (P). Any fair impact which is not a complete penetration should be considered a partial penetration."

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A.3.5 Delete entire paragraph and substitute the following new paragraph:

"A.3.5 Witness plate. A witness plate is normally a 0.14 inch thick sheet of 5052 H36 aluminum alloy (or a 0.020 inch thick sheet of 2024-T-3 aluminum alloy) placed six inches (± ½ inch) behind and parallel to the test plates or other ballistic sample.

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TABLE A-III. MINIMUM required ballistic limits - 20-mm fragment simulating projectiles at 0^{O} obliquity. Insert in the second column under "Thickness, in.," "1.305" and insert under the corresponding "Required BL(P), fps," in column 4, "2028."

Custodians:
Army - MR
Navy - AS
Air Force - 11
DLA – IS

Preparing Activity: Army - MR

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