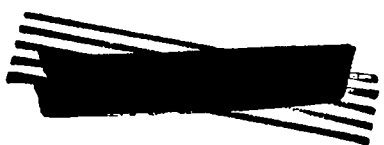


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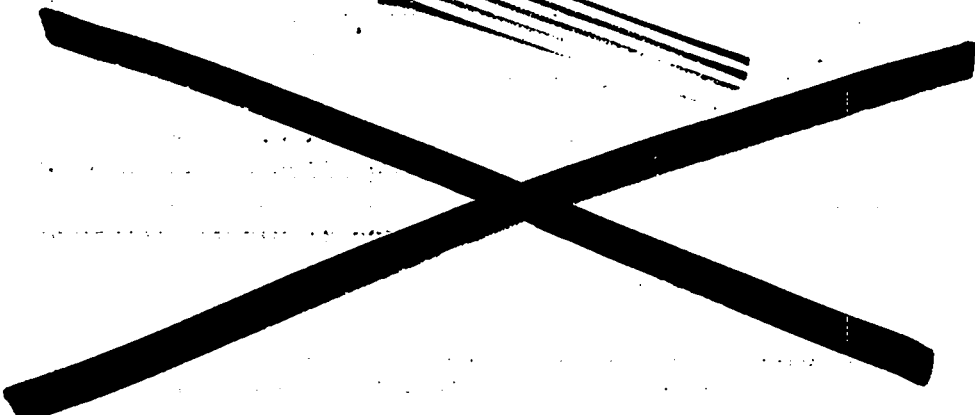
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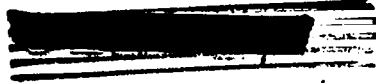
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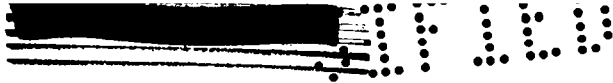
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January 30, 1945 ALDR(TID-1400-S2)Sept-Oct 1974 This document contains 2 pages

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PERFORMANCE OF BRITISH BOMBS

(Information Received from Lord Cherwell, December 1944)

The performance of the British bombs is given in the following table:

Weight of Bomb in Lbs.	Distance from Bomb in Feet	Max. Pressure Lbs. per sq.in.	Duration of Pressure in Millisecs.	Positive Impulse Lbs. millisecs per Sq. in.
4000	150	16.7	29	125
4000	250	3.7	46	62
8000	125	33	37	192
8000	225	6.9	54	108

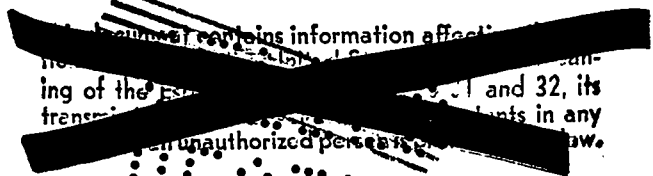
Charts illustrating these figures will be sent later.

The areas of A, B, and C damage have been estimated for German housing targets only, and the estimates are described as speculative. The figures give the areas in square yards (A) demolished, (B) of permanent evacuation, (c) temporarily uninhabitable. The figures are of course not cumulative.

4000 lbs	(A) 5350	(B) 5650	(C) 13,000
8000 lbs	(A) 9000	(B) 11,800	(C) 28,200

No quantitative estimates have been made for damage areas for Japanese housing. N.D.R.C. at Princeton and Washington should have more data for they receive reports from Ministry of Home Security Research and Experiments Department. Dr. Hottel is the expert on Housing.

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Evidence based largely on fly bomb results suggests that, against English two-story houses, air burst at 10 to 20 feet raises the area of damage by some 30 to 50 percent, but there are fewer casualties and no cuts in mains.

The number of fires started by H.E. bombs is probably small but the evidence is not good.



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