

ANTHROPOMETRY AS A TOOL IN THE DESIGN OF PERSONAL SHIELD

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- **ABSTRACT:** The need to design products ergonomically adjusted to the characteristics of the user avoiding to bring him negative impacts on comfort and health has frequently raised questions about anthropometric measures of the Brazilian man. This reality is more pronounced when it comes when designing products to be used on a mandatory, as the case of personal protective equipment. Specialist in the School of Aeronautics, School and military experts to form sergeants Brazilian Air Force, has a force composed by men and women, a survey was conducted with semistructured single script, found that 81.3% of actual sex women thought that measurements of body armor available for the mandatory use was inadequate. Accordingly, in order to make a survey on the adequacy of body armor to the characteristics of effective female military expert at the School of Aeronautics who use them constantly, an anthropometric study was conducted on 141 soldiers aged between 18 and 47. The results show that in Q5% collected to measure the extent of the posterior trunk is 14.42 cm below the standard established by the Army. The measures follow the ABNT NBR-15 127 2004.
- **KEYWORDS:** Anthropometry; ergonomics; body armor; military.

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