

# Standard Specification for MINERAL FIBER BLOCK OR BOARD THERMAL INSULATION FOR ELEVATED TEMPERATURES<sup>1</sup>



ASTM Designation: C 392 - 63

ADOPTED, 1960; REVISED, 1963.<sup>2</sup>

This Standard of the American Society for Testing and Materials is issued under the fixed designation C 392; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

## Scope

1. This specification covers the composition, physical properties, and dimensions of mineral fiber (rock, slag, or glass) block or board for use as thermal insulation on flat or nearly flat surfaces operating at elevated temperatures up to 1800 F. For specific applications, the actual temperature limit shall be agreed upon between the manufacturer and the purchaser.

## Definitions

2. The Definitions of Terms Relating to Thermal Insulating Materials (ASTM Designation: C 168)<sup>3</sup> shall be considered as applying to the terms used in this specification.

## Description

3. (a) *Composition*.—The fiber shall be of mineral substance such as rock,

slag, or glass processed from a molten state into fibrous form.

(b) *Manufacture*.—Mineral fiber block or board thermal insulation shall be a rigid material composed of mineral fibers with binder and furnished for applications as received in accordance with the rigidity requirements (Section 10 (a)).

## Types

4. Three types of mineral fiber block or board insulation are covered as follows:

*Type 1*.—Organic bonded, for use up to 400 F,

*Type 2*.—Organic bonded, for use up to 700 F, and

*Type 3*.—Inorganic bonded, for use up to 1800 F.

## Physical Requirements

5. The insulation shall conform to the physical requirements as described in Table I.

## Standard Sizes and Dimensions

6. Standard sizes of mineral fiber block or board insulation shall be as

<sup>1</sup> Under the standardization procedure of the Society, this specification is under the jurisdiction of the ASTM Committee C-16 on Thermal Insulating Materials.

<sup>2</sup> Prior to adoption as standard, this specification was published as tentative from 1957 to 1960.

<sup>3</sup> Appears in this publication.