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**Technical requirements of complete equipment for production
of autoclaved aerated concrete**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

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Complete set of equipment for the production of autoclaved aerated concrete Technical requirements

1 Scope

This document specifies the composition and parameters, technical requirements, safety and environmental protection, installation acceptance and commissioning of autoclaved aerated concrete production equipment.

testing, performance testing and delivery documentation.

This document applies to the manufacture and installation of complete equipment for the production of autoclaved aerated concrete blocks and slabs.

2 Normative references

GB/T 150.4

GB 2893

GB 2894

GB/T 3766

GB/T 3797

GB/T 3836.1-2021

GB 4053.1

GB 4053.2

GB 4053.3

GB/T 5226.1

GB/T 6719

GB/T 7251.1

GB/T 7932

GB/T 7935

GB/T 8923.1-2011

GB/T 9969

GB/T 10595

GB/T 11968

GB/T 15762

GB/T 16754

GB 18613

GB/T 25295

GB/T 25708

GB/T 35167

GB/T 36235

GB/T 50087

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