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Edition 2

SOUTH AFRICAN NATIONAL STANDARD

The installation, testing and balancing of air-conditioning ductwork

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Table of changes

Change No.	Date	Scope

Acknowledgement

The SABS Standards Division wishes to acknowledge the valuable assistance derived from publications of The Heating and Ventilating Contractors' Association, London, UK.

Foreword

This South African standard was approved by National Committee SABS TC 86, *Air conditioning, refrigeration and ventilation*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document supersedes SABS 0173:1980 (first edition).

**Reaffirmed and reprinted in February 2011.
This standard will be reviewed every five years
and be reaffirmed, amended, revised or withdrawn.**

Contents

	Page
Acknowledgement	
Foreword	
1 Scope	3
2 Normative references	3
3 Definitions	3
4 General provisions	4
5 Installation	6
6 Finish	12
7 Identification	12
8 Testing, and balancing and adjustment of a duct system	14
8.1 Testing for leakage	14
8.2 Balancing and adjustment of a duct system	15
Figures 1-12	18-22
Bibliography	23

SANS 10173:2003
Edition 2

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The installation, testing and balancing of air-conditioning ductwork

1 Scope

This standard gives provisions and recommendations for the installation, testing and balancing of high, low and medium pressure systems of ductwork for air-conditioning purposes.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

ASTM D93, *Standard test methods for flash-point by Pensky-Martens closed cup tester.*

SANS 193, *Fire dampers.*

SANS 1238, *Air-conditioning ductwork.*

SANS 10177-3, *Fire testing of materials, components and elements used in buildings – Part 3: Surface fire index of finishing materials.*

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1

acceptable

acceptable to the authority administering this standard, or to the parties concluding the purchase contract, as relevant

3.2

agreed

agreed in writing between the manufacturer and the purchaser

3.3

duct systems

3.3.1

low pressure duct system

air duct system or part of a system intended to convey air at average velocities not exceeding 10 m/s and at static gauge pressures between +500 Pa (0,5 kPa) and -500 Pa (-0,5 kPa)