

IN-LB

Inch-Pound Units

SI

International System of Units

ACI 304.4R-20

Guide to Placing Concrete with Belt Conveyors

Reported by ACI Committee 304



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Guide to Placing Concrete with Belt Conveyors

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American Concrete Institute
38800 Country Club Drive
Farmington Hills, MI 48331
Phone: +1.248.848.3700
Fax: +1.248.848.3701

www.concrete.org

Guide to Placing Concrete with Belt Conveyors

Reported by ACI Committee 304

Tarek S. Khan, Chair

T. J. Harris, Secretary

Hakim S. Abdelgader
David J. Akers
Casimir J. Bognacki
David A. Burg
Manjit S. Chopra
Carl L. Cunningham*

Bernard J. Eckholdt III
J. Mitchell Englestead
Michael R. Gardner
Brian H. Green
Terence C. Holland
Larry G. Lepper

Larry W. Matejcek
Avi A. Mor
Mike Murray
Dipak T. Parekh
James S. Pierce
Jorge L. Quiros

Royce J. Rhoads
James M. Shilstone
William W. Squyres
Boris Y. Stein
Samuel X. Yao
Richard Yelton

*Members of subcommittee who revised this report.

Consulting Members

Jacques A. Bertrand

Thomas R. Clapp

Neil R. Guptill

The committee acknowledges the contributions of Carl Cunningham in revising this report.

This report includes a short history on the early development of conveyor belts for transporting and placing concrete; the design of conveyor systems in relation to the properties of the plastic concrete, the delivery rate, and the job specifications; as well as belt widths, speeds, and angles of inclination as they apply to specific site requirements. Also discussed are the three types of concrete conveyors (portable, feeder, and spreader types) and their particular applications; field practices in the selection, use, and maintenance of conveyors; and the economics of belt conveyor placement. The quality of the in-place concrete and inspection procedures are also stressed.

Keywords: belt conveyors; concrete construction; conveying; conveyors; economics; feeders; fresh concrete; inspection; maintenance; placing; quality control; workability.

CONTENTS

CHAPTER 1—INTRODUCTION, p. 2

- 1.1—General, p. 2
- 1.2—History, p. 2
- 1.3—Concrete conveyor development, p. 2

CHAPTER 2—DEFINITIONS, p. 2

CHAPTER 3—DESIGN CONSIDERATIONS, p. 2

- 3.1—General requirements, p. 2
- 3.2—Concrete ribbon parameters, p. 3
- 3.3—Belt charging, p. 4
- 3.4—Belt discharge, p. 4
- 3.5—Belt conveyor design principles, p. 4
- 3.6—Concrete mixture proportioning for conveying, p. 6
- 3.7—Specifications, p. 7

CHAPTER 4—TYPES OF CONVEYORS AND FUNCTIONS, p. 7

- 4.1—General, p. 7
- 4.2—Portable conveyors, p. 7
- 4.3—Feeder conveyors, p. 7
- 4.4—Spreading conveyors, p. 9
- 4.5—Conveyor combinations, p. 11
- 4.6—Special belt conveyors, p. 11
- 4.7—Truck-mounted conveyors, p. 12
- 4.8—Economics of conveyor placement, p. 13

CHAPTER 5—FIELD PRACTICE, p. 14

- 5.1—Selection of conveyors, p. 14
- 5.2—Actual capacity, p. 14
- 5.3—Conveyor charging, p. 14
- 5.4—Discharge control, p. 15
- 5.5—Maintenance, p. 15

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