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ULC/ORD-C959-93 (R2018)

540°C AND 760°C INDUSTRIAL CHIMNEYS

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ULC/ORD-C959-93 (R2018)

540°C AND 760°C INDUSTRIAL CHIMNEYS

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TABLE OF CONTENTS

PAGE

FOREWORD
PREFACE 1
1. SCOPE 2
2. GLOSSARY 2
3. CONSTRUCTION 3
3.1 Materials 3
3.2 Assembly 3
3.3 Joints 5
3.4 Firestop - Spacers 7
3.5 Supports 7
3.6 Radiation Shields 7
3.7 Caps 8
3.8 Roof Assemblies 8
3.9 Draft 8
4. MARKING 8
5. PERFORMANCE 9
5.1 General 9
5.2 Test Installation 10
5.3 Temperature Measurement 12
5.4 Test No. 1 - Thermal Shock 13
5.5 Test No. 2 - 540°C Flue Gases (For 540°C Chimneys Only)..... 13
5.6 Test No. 3 - 760°C Flue Gases (For 540°C Chimneys Only)..... 14
5.7 Test No. 4 - 760°C Flue Gases (For 760°C Chimneys Only)..... 15
5.8 Test No. 5 - 925°C Flue Gases (For 540°C Chimneys Only)..... 15
5.9 Test No. 6 - 980°C Flue Gases (For 760°C Chimneys Only)..... 15
5.10 Test No. 7 - Support 17
5.11 Test No. 8 - Strength 17
5.12 Test No. 9 - Wind Load 18
5.13 Test No. 10 - Rain 19
5.14 Test No. 11 - Corrosion Resistance Test 20
5.15 Test No. 12 - Vibration (For Loose Fill Insulated Chimneys) .. 21
6. INSTALLATION INSTRUCTIONS..... 21
7. FIGURE 24

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FOREWORD

Certification organizations are periodically requested to promptly provide certification services for devices, constructions, materials and systems where Canadian recognized Standards do not currently exist or are not entirely applicable. Accordingly, the certification organization utilizes its experience, existing specifications and requirements in related areas, together with assistance from its advisory councils to develop and prepare Other Recognized Documents (ORDs) for use in conducting the necessary tests and evaluation investigation.

Underwriters Laboratories of Canada has prepared many ORDs in response to requests from, and in conjunction with, industry, code writing bodies, regulatory agencies and others prior to promulgating a certification program. In many instances such documents have become published ULC Standards and subsequently National Standards of Canada. It is the intention of Underwriters Laboratories of Canada to continue this practice, as appropriate.

Comments on the content of this ORD should be directed to the Head Office of Underwriters Laboratories of Canada, 7 Underwriters Road, Toronto, Ontario, Canada, M1R 3A9.

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540°C AND 760°C INDUSTRIAL CHIMNEYS

PREFACE

This is the First Edition of the Other Recognized Document for 540°C And 760°C Industrial Chimneys, ULC/ORD-C959-93 (R2018).

Only metric SI units of measurement are used in this ORD. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

This First Edition ORD has now been Reaffirmed.

Attention is drawn to the possibility that some of the elements of this ORD may be the subject of patent rights. Neither Underwriters Laboratories of Canada, nor ULC Standards, shall be held responsible for identifying any or all such patent rights.

Requests for interpretation of this ORD should be sent to the ULC Mark Program Owner of Underwriters Laboratories of Canada. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

ORDs are valid for use by Certification Bodies for certifications for up to 5 years from date of initial validation, or revalidation, unless superseded or withdrawn.

This ORD is intended to be used for conformity assessment.

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1. SCOPE

1.1 These are factory-built industrial chimneys intended for use with certain process equipment and large oil or gas burning building heating appliances normally producing flue gas temperatures of 540°C or 760°C, or less as applicable.

1.2 A complete assembly consists of a support assembly, a clean-out tee or drain section, a number of chimney sections, intermediate supports, a roof flashing, a storm collar and a termination fitting such as a raincap or finishing cone. Elbows may be included.

1.3 540°C and 760° chimneys shall be capable of installation in accordance with the manufacturer's installation instructions as specified in Section 6.

1.4 540°C and 760°C Chimneys are intended to be installed unenclosed, or where penetration of a fire separation is required, to be enclosed in a non-combustible enclosure of equivalent fire rating.

2. GLOSSARY

2.1 APPLIANCE - A piece of utilization equipment, normally built in standardized sizes or types, that is installed or connected as a unit to perform one or more functions such as clothes washing, air conditioning, food mixing, cooking, heating, refrigeration, etc.

2.2 APPLIANCE, BUILDING HEATING - Fuel-burning boiler, operating at not over 345 kPa pressure, central furnaces, and heaters intended primarily for heating spaces having volumes exceeding 700 m^3.

2.3 APPLIANCE, LOW-HEAT, INDUSTRIAL - An industrial appliance in which materials or products are dried, cured, cooked, heated or melted at temperatures (excluding flue-gas temperatures) not exceeding 316°C.

2.4 APPLIANCE, RESIDENTIAL-TYPE, HEATING - Fuel-burning appliances, except high-pressure steam boilers, for heating building spaces having a volume of not more than 708 m^3 and other heat-producing appliances of the type mainly used in residences, but which may be used in other buildings.

2.5 CHIMNEY - A passageway, essentially vertical, for conveying flue gases to the outside atmosphere.

2.6 CHIMNEY, FACTORY-BUILT - A chimney composed of factory-built components assembled in accordance with its manufacturer's Installation Instructions to form a complete chimney.

2.7 CHIMNEY CAP - A protective covering or housing for the top of a chimney intended to prevent the entry of rain, snow, animals, birds, etc. and to prevent downdrafts.

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