

STANDARD

**11691**

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**Acoustics — Measurement of insertion  
loss of ducted silencers without flow —  
Laboratory survey method**

*Acoustique — Détermination de la perte d'insertion de silencieux en  
conduit sans écoulement — Méthode de mesurage en laboratoire*



Reference number  
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## **Foreword**

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## Introduction

The insertion loss of absorbent silencers is generally not affected by the air flow, provided that the flow velocity does not exceed approximately 20 m/s in the narrowest cross-section of the silencer. In practice, non-uniform flow distributions must be considered, therefore the limit velocity of 20 m/s corresponds to a design velocity of 10 m/s to 15 m/s.