FIGURE A1 SURFACE AREA OF DUCTWORK
For use with Section 35 Mechanical Installations

All calculations are based on airstream size.
Surface area = P x L, where P = perimeter of largest duct
L = length of duct or fitting calculated as follows:

**STRAIGHT DUCT**

Measure as straight ducts

**STRAIGHT DUCT**
TAP IN

(Intersection of straight ducts without splitters or dampers)

**TRANSITION**

* If over 90° to be considered two bends - one 90° the other the remainder (any angle up to and including 90°)

Duct pieces not conforming with the above diagrams shall have the area calculated applying the same principles.

Lines in diagrams do not necessarily indicate the positions of joints in the ductwork. Splitters are not measured but are deemed to be covered by the foregoing formulae.
FIGURE A1 SURFACE AREA OF DUCTWORK
For use with Section 35 Mechanical Installations

All calculations are based on airstream size

Surface area = P x L, where
P = perimeter of largest duct
L = length of duct or fitting calculated as follows:

Extent of splitter or damper
L = L₁ + L₂
JUNCTION

Dimensions are to spring line of branch
L = L₁ + L₂
JUNCTION

L = L₁ + L₂ + L₃
JUNCTION

L₁
Spring line
L₂
L = L₁ + L₂
BEND *
(Any angle up to and including 90°)

* If over 90° to be considered two bends - one 90° the other the remainder

Duct pieces not conforming with the above diagrams shall have the area calculated applying the same principles.

Lines in diagrams do not necessarily indicate the positions of joints in the ductwork. Splitters are not measured but are deemed to be covered by the foregoing formulae.