



FIRE



DESIGN • COMFORT • INSULATION

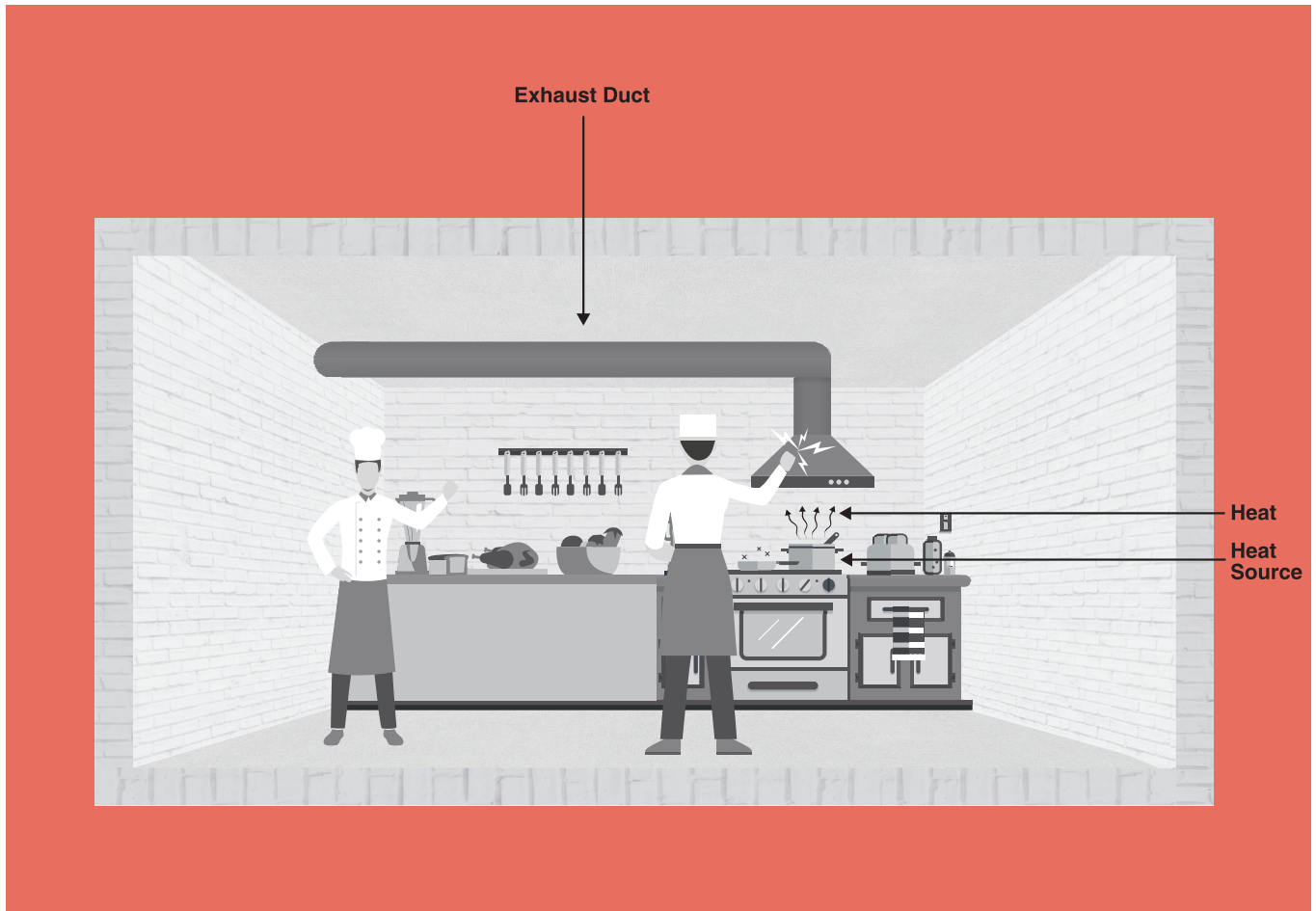
EXHAUST HEAT SAFELY

INSAFE SYSTEMS®

FIRE & SAFETY INSULATION

EXHAUST DUCTS ARE IMPORTANT

Exhaust Ducts are a vital part of any area that has to vent out the toxic gases, heat or even air in order to maintain indoor air quality. Usually there is an exhaust fan at the end of such a vent. This fan moves at a very high speed to create suction, which pulls the air out into the open. The high speed of the fan, generates heat which is transferred to the entire exhaust duct.



THE DUCTS MAY NOT BE TOUCH SAFE

Ducts kitchen vent out various food aromas. Commercial kitchens may have a hood over the cooking area. The hood may get heated up due to its constant exposure to flame and various gases. This heat is transferred to the entire exhaust duct again. Usually such ducts are at an accessible level to humans. If someone touches these ducts accidentally or to clean them, it can lead to serious burn injuries.

- **Exhaust Ducts help keep the indoor air clean**
- **Hood and fast moving exhaust fan cause the duct to heat up**
- **It can cause burn injuries to someone who touches it**

INSAFE MAKES DUCT TOUCH SAFE

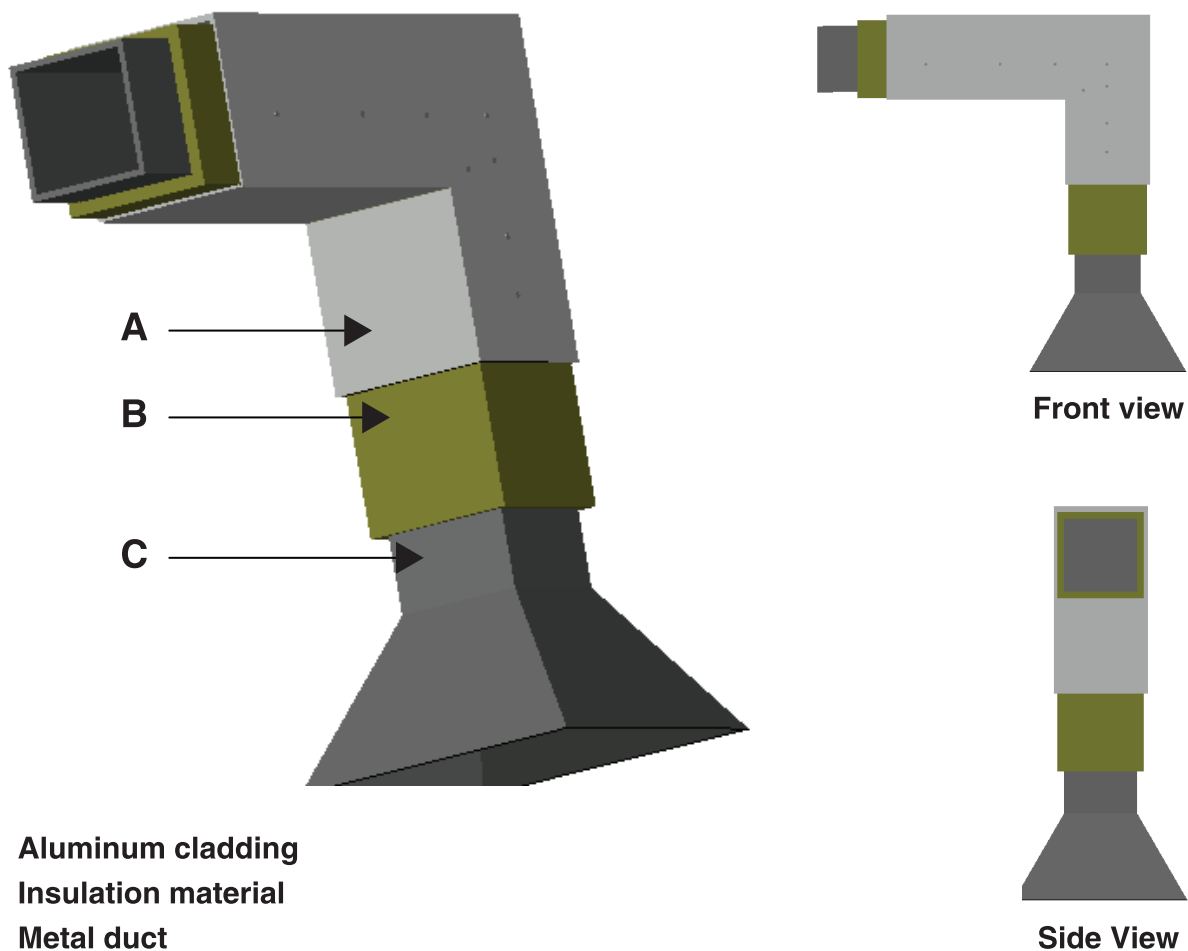
To avoid grievous injuries on touching the duct accidentally or intentionally, it needs to be insulated from inside. The insulation prevents the heating of the ducts, keeping them at service temperature. So it is safe to touch them.

InSafe is also Fire Retardant

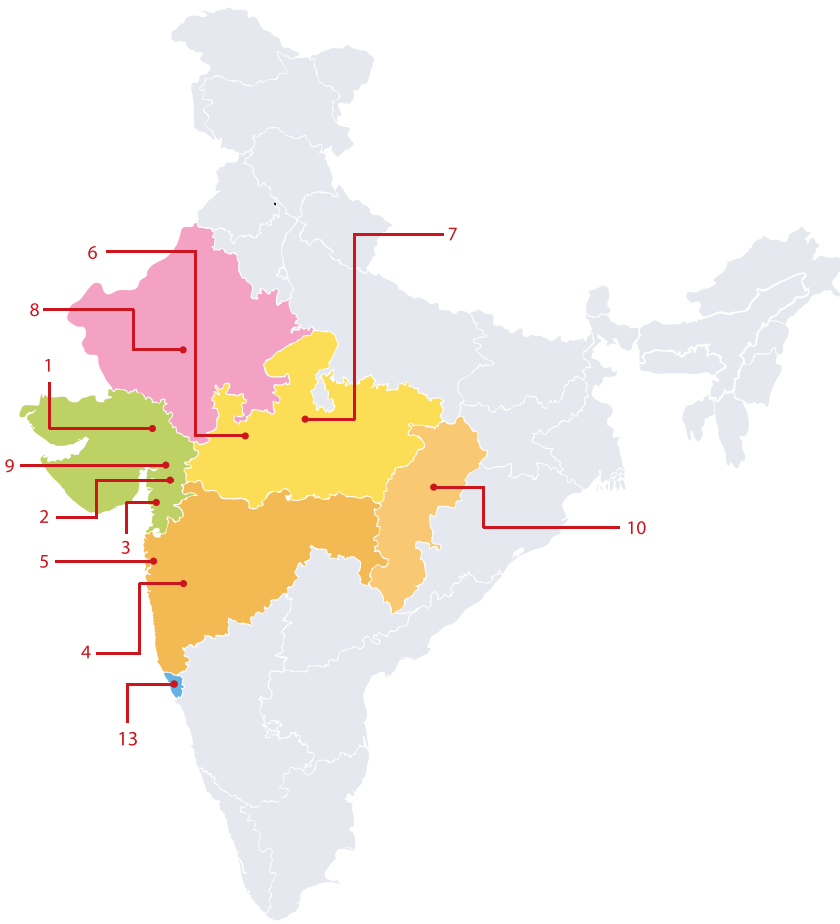
The insulation materials used in these ducts are fire retardant which prevent the spread of fire. The insulation thickness depends on the maximum surface temperature allowed on the duct. Also, ventilation systems require thermal insulation in order to restrict and control heat loss in certain scenarios. For financial and environmental reasons, it is important to reduce unnecessary heat loss in ducts that transport warm air.

Dimensions

The thickness of this system is designed on the basis of usage, area of access and surface temperature required.



- InSafe Systems regulate the heating of the ducts
 - So the ducts become touch safe
 - InSafe also resists the spread of fire
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