



## Smoke Door Sealing Systems

*NCC Class 2 to Class 9 Buildings (hospitals, aged care facilities, hotels, high rise apartments and shopping centres)*

In the event of a fire emergency, life and safety is the most critical requirement for the occupants of a building. Ambient (cold) and Medium temperature smoke that is generated by a fire must be contained quickly in order to provide safe areas within a building.

Smoke compartmentation is a mandated requirement of the Australian NCC and most building codes and regulatory authorities overseas. Smoke sealing, "Smoke Doors" (solid core doors) helps provide a physical barrier that impedes the spread of toxic fumes and smoke from one room to another. Smoke sealed doors also helps protect egress routes allowing occupants a safe passage when exiting the building during a fire alarm emergency.

Raven pioneered smoke door sealing systems, their design effectively reduces smoke leakage around the door margins of smoke doors including applications that require fire rated door assemblies. Raven sealing systems comprise perimeter seals, meeting stile seals and door bottom seals. All are tested and certified to the applicable Australian and International standards.

In Australia, smoke doors and the use of fire rated doors are required to be smoke sealed to limit the leakage of ambient (cold) smoke and medium temperature smoke up to 200 degrees Celsius for 30 minutes. Refer NCC Sect. C3. Spec. C3.4. In addition to the "deemed to satisfy" requirements, Raven has tested and certified its smoke sealing systems to AS 1530.7 and EN 1634-3.