

Compliance with TGD Part F 2009 - Ventilation

Dwelling is to be constructed with an air-tightness membrane and the target Air-tightness for the dwelling is to be less than 5 Cubic Metres/hr/sqm.

Dwelling to be naturally ventilated and required Free Area of ventilation required for dwelling = 140,000 Sqmm.

Ventilation to be provided with Innovator Round Louvred Vents or E/A with the overall Free Area of ventilation to be as follows:

Living Room	1 No. 5" Round ventilator	11,800 Sqmm
Dining Room	1 No. 5" Round ventilator	11,800 Sqmm
Kitchen	1 No. 4" Round ventilator	11,800 Sqmm
Utility	1 No. 4" Round ventilator	7,500 Sqmm
Study/Playroom	1 No. 5" Round ventilator	11,800 Sqmm
Bedroom 1	1 No. 5" Round ventilator	11,800 Sqmm
Bedroom 2	1 No. 5" Round ventilator	11,800 Sqmm
Bedroom 3	1 No. 5" Round ventilator	11,800 Sqmm
Bedroom 4	1 No. 5" Round ventilator	11,800 Sqmm
Family Bathroom	1 No. 5" Round ventilator	11,800 Sqmm
En-suite 1	1 No. 4" Round ventilator	7,500 Sqmm
En-suite 2	1 No. 4" Round Ventilator	11,800 Sqmm
Guest W.C.	1 No. 4" Round Ventilator	7,500 Sqmm

Total Free Area of Natural Ventilation = 140,500 Sqmm

Vents to En-suite 1 & 2 to be taken through roof sections over.

Extract Ventilation

Kitchen	Selected Extractor over hob with 30 l/sec of ventilation
Guest W.C.	1 No. Vent Axia Lo Carbon Silhouette 100B fan
Family Bathroom	1 No. Vent Axia Vent a Light mounted over shower
En-suite 1	1 No. Vent Axia Vent a Light mounted over shower
En-suite 2	1 No. Vent Axia Lo Carbon Silhouette 100B fan

Extract vents to En-suite 1 & 2 to be taken through roof sections over.

Ventilation for Solid Fuel Burning Stove

1 No. additional background ventilator to be provided to Living Room to allow for ventilation requirements of solid fuel burning stove.