

DIN CEN/TR 16798-8:2018-03 (E)

Energy performance of buildings - Ventilation for buildings - Part 8: Interpretation of the requirements in EN 16798-7 - Calculation methods for the determination of air flow rates in buildings including infiltration (Module M5-5); English version CEN/TR 16798-8:2017

Contents	Page
European foreword.....	4
Introduction	7
1 Scope.....	9
2 Normative references.....	9
3 Terms and definitions	9
4 Symbols, subscripts and abbreviations.....	9
4.1 Symbols.....	9
4.2 Subscripts.....	10
4.3 Abbreviations	11
5 Brief description of the methods.....	11
5.1 Output of the method.....	11
5.1.1 General.....	11
5.1.2 Energy use outputs	11
5.1.3 Indoor air quality outputs.....	11
5.1.4 Summer comfort using ventilative cooling.....	11
5.2 General description of the methods.....	12
5.2.1 Multiple ventilation zones	12
5.2.2 Airflows within a ventilation zone.....	12
5.2.3 Separation of the ventilation zones into elementary spaces.....	12
5.3 Selection criteria between the methods	13
6 Calculation method, method 1 — Determination of air flow rates based on detailed building characteristics	14
6.1 Output data.....	14
6.2 Calculation intervals	14
6.3 Input data.....	14
6.4 Calculation procedure, method 1	14
6.4.1 Applicable time intervals and states of operation	14
6.4.2 Operating conditions calculation	15
6.4.3 Calculation of air flow rates.....	17
7 Method 2 - Determination of air flow rates based on statistical approach	21
8 Quality control	21
9 Compliance check.....	21
10 Worked out examples, method 1 — Example 1.....	22
10.1 Description	22
10.2 Calculation details	22
10.3 Observations.....	22
Annex A (informative) Input and method selection data sheet — Template	23
A.1 General.....	23
A.2 References	23
A.3 Input data method 1	23
A.4 Input data method 2.....	23

Annex B (informative) Input and method selection data sheet — Default choices	24
B.1 General	24
B.2 References	24
B.3 Input data method 1	24
B.4 Input data method 2	24
Annex C (informative) Extract and supply air volume flow rate from a ventilation zone	
($QV;ETA;dis$, $QV;SUP;dis$) — Calculation flowchart	25
Annex D (informative) Calculation examples — Example 1	26
Bibliography	41