

DIN EN ISO 11855-2:2026-05 (E)

Building environment design - Embedded radiant heating and cooling systems - Part 2: Determination of the design heating and cooling capacity (ISO 11855-2:2021 + Amd 1:2023) (includes Amendment A1:2023)

Contents	Page
Foreword	iv
A1 Foreword to Amendment 1 A1	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	1
5 Concept of the method to determine the heating and cooling capacity	3
6 Heat exchange coefficient between surface and space	4
7 Simplified calculation methods for determining heating and cooling capacity or surface temperature	6
7.1 Universal single power function	7
7.2 Thermal resistance methods	12
8 Use of basic calculation programmes	15
8.1 Basic calculation programmes	15
8.2 Items to be included in a complete computation documentation	16
9 Calculation of the heating and cooling capacity	16
Annex A (normative) Calculation of the heat flux	17
Annex B (informative) General resistance method	37
Annex C (informative) Pipes embedded in wooden construction	43
Annex D (normative) Method for verification of FEM and FDM calculation programmes	51
Annex E (normative) Values for heat conductivity of materials and air layers	54
Annex F (informative) Maximal surface temperatures for floor heating systems	56
Bibliography	57