

Contents		Page
European foreword		3
Foreword		5
Introduction		6
1	Scope	10
2	Normative references	10
3	Terms and definitions	11
4	Symbols and subscripts	11
	4.1 Symbols	11
	4.2 Subscripts	12
5	Calculation method	12
	5.1 Output of the method	12
	5.2 General principle	12
	5.3 Validation of the calculation programs	13
6	Calculation of thermal transmittance	13
	6.1 Output data	13
	6.2 Calculation time intervals	13
	6.3 Input data	13
	6.3.1 Geometrical characteristics	13
	6.3.2 Thermal conductivity values	14
	6.3.3 Emissivity of surfaces	15
	6.3.4 General boundaries	15
	6.3.5 Boundaries for roller shutter boxes	15
	6.4 Calculation procedures	16
	6.4.1 Determination of thermal transmittance	16
	6.4.2 Treatment of cavities using the radiosity method	17
	6.4.3 Treatment of cavities using the single equivalent thermal conductivity method	27
7	Report	33
	7.1 Contents of report	33
	7.2 Geometrical data	33
	7.3 Thermal data	34
	7.3.1 Thermal conductivity	34
	7.3.2 Emissivity	34
	7.3.3 Boundary conditions	34
	7.4 Presentation of results	34
Annex A (normative) Input and method selection data sheet — Template		35
Annex B (informative) Input and method selection data sheet — Default choices		37
Annex C (normative) Regional references in line with ISO Global Relevance Policy		39
Annex D (normative) Thermal conductivity and other characteristics of selected materials		40
Annex E (normative) Surface resistances		43
Annex F (normative) Determination of the thermal transmittance		45
Annex G (normative) General examples for the validation of calculation programs using the radiosity method for the treatment of cavities		49
Annex H (normative) Examples of window frames for the validation of calculation programs using the radiosity method for the treatment of cavities		54
Annex I (normative) Examples of window frames for the validation of calculation programs using the single equivalent thermal conductivity method for the treatment of cavities		66
Annex J (normative) Wood species listed in Annex D		67
Bibliography		79