



NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI
IEC

62305-2
Edition-1
2005-01

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Structure's Dimensions:

Length of structure (m): 83
Width of structure (m): 42
Height of roof plane (m)*: 7
Collection area (m2): 10.121 m2

Structure's Attributes:

Risk of physical damage (incl. fire): Ordinary
Structure screening effectiveness: Good
Internal wiring type: Unscreened

Environmental Influences:

Location factor: Similar in height
Environmental factor: Urban
Annual ground flash density: 2,6 flash/km2
Number thunderdays: 26 days/year

Protection Measures:

Class of LPS: Class IV
Fire protection provisions: Automated systems
Surge protection: Coord. SPD IEC 62305-4

Conductive Electric Service Lines:

Power Line:

Type of service to the structure: Buried cable
Type of external cable: Unscreened
Presence of MV / LV transformer: No Transformer

Other Overhead Services:

Number of conductive services: 0
Type of external cable: Unscreened

Other Underground Services:

Number of conductive services: 2
Type of external cable: Unscreened

Types of Loss:

Type 1 - Loss of Human Life:

Special hazards to life: Average panic level
Life loss due to fire: Commercial, schools...
Life loss due to overvoltages: Not relevant

Type 2 - Loss of Essential Public Services:

Services lost due to fire: No service exist
Services lost due to overvoltages: No service exist

Type 3 - Loss of Cultural Heritage:

Cultural heritage lost due to fire: No heritage value

Type 4 - Economic Loss:

Special hazards to economics: No special hazards
Economic loss due to fire: Office, school
Economic loss due to overvoltage: Museum, school
Step/touch potential loss factor: No shock risk
Tolerable risk of economic loss: 1 in 1,000

Calculated Risks:

	<i>Tolerable Risk Rt</i>	<i>Direct Strike Risk Rd</i>	<i>Indirect Strike Risk Ri</i>	<i>Calculated Risk R</i>
Loss of Human Life:	1,00E-05	1,33E-06	1,28E-06	2,61E-06
Loss of Public Services:	1,00E-03	0,00E+00	0,00E+00	0,00E+00
Loss of Cultural Heritage:	1,00E-03	0,00E+00	0,00E+00	0,00E+00
Economic Loss:	1,00E-03	1,45E-06	1,42E-05	1,56E-05

IEC Risk Assessment Calculator: Version 1.0.3

Database: Version 1.0.3

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The IEC lightning risk assessment calculator is intended to assist in the analysis of various criteria to determine the risk of loss due to lightning. It is not possible to cover each special design element that may render a structure more or less susceptible to lightning damage. In special cases, personal and economic factors may be very important and should be considered in addition to the assessment obtained by use of this tool. It is intended that this tool be used in conjunction with the written standard IEC62305-2.