



NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI
IEC

62305-2
Edition-1
2005-01

Project: IZRAČUN OCENE TVEGANJA POSLOVNI OBJEKT_GLAVNI TRG 1_CELJE

Results for collection areas and frequencies:

Ad - collection area of direct strikes to the structure	20.416 m2
Nd - expected annual number of direct strikes to the structure	0,055 flashes/year
Am - collection area of structure influenced by induced overvoltages from indirect strikes	230.916 m2
Nm - expected annual number of strikes direct to ground or to grounded objects near the structure inducing overvoltages	0,568 flashes/year
Ac1 - collection area of overhead lines from direct strikes	33.840 m2
NL1 - expected annual number of direct strikes to the overhead line which are potentially dangerous	0,091 flashes/year
AI1 - collection area of overhead lines to indirect strikes	1.000.000 m2
NI1 - expected annual number of indirect strikes to ground near the overhead line which induce damaging overvoltages	0,270 flashes/year
Ac2 - collection area of underground lines from direct strikes	21.019 m2
NI2 - expected annual number of strikes direct to the underground lines which are potentially dangerous	0,057 flashes/year
AI2 - collection area of underground lines to indirect strikes	559.017 m2
NI2 - expected annual number of indirect strikes to ground near the underground line which induce damaging overvoltages	0,151 flashes/year

Type 1 - Loss of Human Life:

RA1 - risk of dangerous touch and step potentials inside and outside the structure from a direct strike to the structure	5,51E-08
RB1 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the structure	5,51E-06
RC1 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the structure	0,00E+00
RM1 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the structure	0,00E+00
RU1 - risk of dangerous touch and step potentials inside and outside the structure from a direct strike to the service lines	8,51E-09
RV1 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the service lines	4,26E-06
RW1 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the service lines	0,00E+00
RZ1 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the service lines	0,00E+00

Type 2 - Loss of Essential Public Services:

RB2 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the structure	0,00E+00
RC2 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the structure	0,00E+00
RM2 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the structure	0,00E+00
RV2 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the service lines	0,00E+00
RW2 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the service lines	0,00E+00
RZ2 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the service lines	0,00E+00

Type 3 - Loss of Cultural Heritage:

RB3 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the structure	0,00E+00
RV3 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the service lines	0,00E+00

Type 4 - Economic Loss:

RA4 - risk of dangerous touch and step potentials inside and outside the structure from a direct strike to the structure	0,00E+00
RB4 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the structure	1,10E-05
RC4 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the structure	1,65E-05
RM4 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the structure	5,68E-05
RU4 - risk of dangerous touch and step potentials inside and outside the structure from a direct strike to the service lines	0,00E+00
RV4 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the service lines	8,51E-06
RW4 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the service lines	8,51E-05
RZ4 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the service lines	9,42E-05

IEC Risk Assessment Calculator: Version 1.0.3

Database: Version 1.0.3

IEC Central Office Support (Tel: +41-22-919 0211)
Copyright © 2005, IEC. All rights reserved.

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.