



NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC

62305-2
Edition-1
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Project: MIC POMURJE

Results for collection areas and frequencies:

Ad - collection area of direct strikes to the structure	10,121 m2
Nd - expected annual number of direct strikes to the structure	0,013 flashes/year
Am - collection area of structure influenced by induced overvoltages from indirect strikes	262,336 m2
Nm - expected annual number of strikes direct to ground or to grounded objects near the structure inducing overvoltages	0,669 flashes/year
Ac1 - collection area of overhead lines from direct strikes	35,244 m2
NL1 - expected annual number of direct strikes to the overhead line which are potentially dangerous	0,046 flashes/year
Al1 - 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	0,260 flashes/year
Ac2 - collection area of underground lines from direct strikes	21,891 m2
NI2 - expected annual number of strikes direct to the underground lines which are potentially dangerous	0,028 flashes/year
Al2 - 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	0,145 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	1,32E-08
RB1 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the structure	1,32E-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	2,56E-09
RV1 - risk of destruction due to fire, explosion, mechanical, chemical damage from a direct strike to the service lines	1,28E-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	1,05E-06
RC4 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the structure	3,95E-07
RM4 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the structure	6,69E-08
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	1,02E-06
RW4 - risk of electrical / electronic equipment failure due to overvoltage from a direct strike to the service lines	2,56E-06
RZ4 - risk of electrical / electronic equipment failure due to overvoltage from an indirect strike to the service lines	1,05E-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.