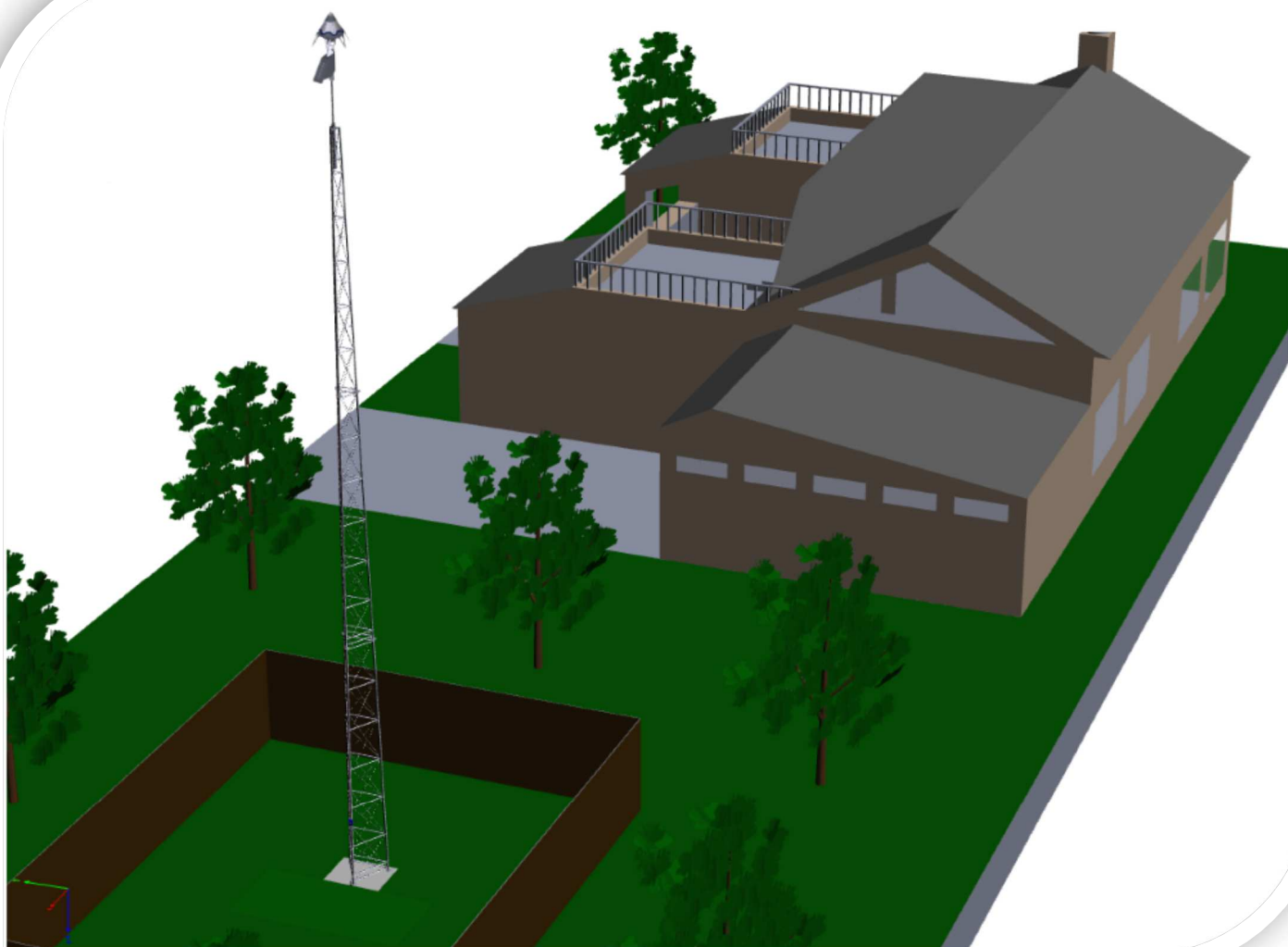


ISOLATED LIGHTNING PROTECTION SYSTEM USING REMOTE-TESTING ESE LIGHTNING AIR TERMINAL ESTATES, BASE CAMPS, OPEN AREAS

 **Indelec**
connect
PREVECTRON 3 connect



ISOLATED LIGHTNING PROTECTION SYSTEM USING REMOTE-TESTING ESE LIGHTNING AIR TERMINAL ESTATES, BASE CAMPS, OPEN AREAS

PROTECTION AREA

A protection radius of up to 110m

The protection radius of a PREVECTRON 3® lightning conductor is calculated according to the formula of NF C 17-102 : 2011 standard:

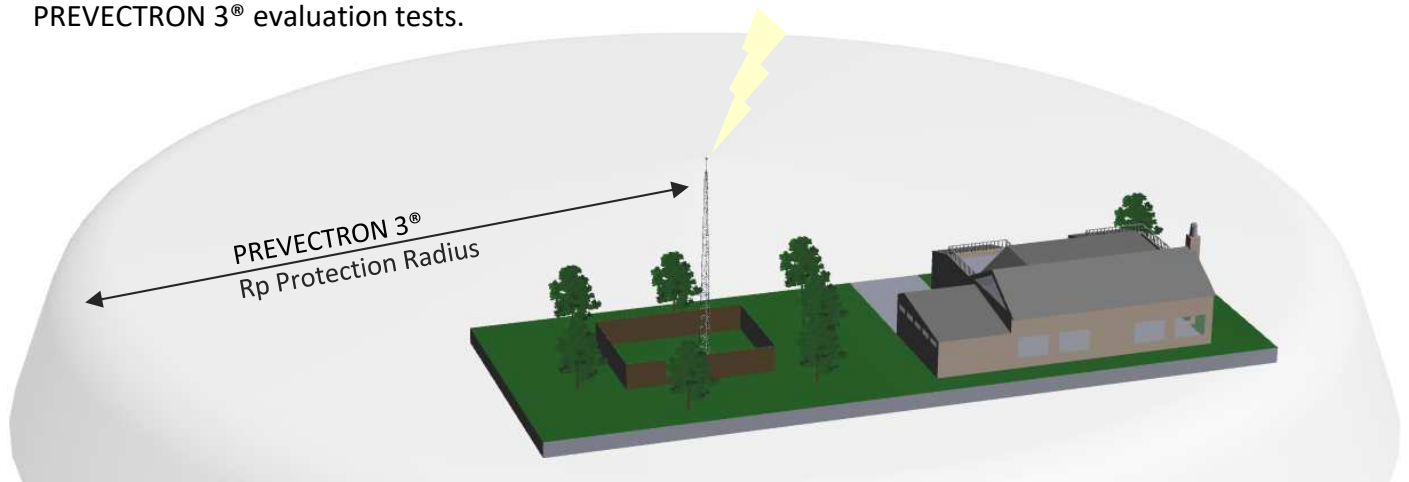
$$R_p(h) = \sqrt{2rh - h^2 + \Delta(2r + \Delta)} \quad \text{for } h \geq 5 \text{ m}$$

and

$$R_p = h \times R_p(5) / 5 \quad \text{for } 2 \text{ m} \leq h \leq 5 \text{ m}$$

It depends on below parameters :

- $h(m)$: is the height of the PREVECTRON 3® tip over the horizontal plane through the furthest point of the object/area to be protected (for $h \leq 5 \text{ m}$, refer to chart above)
- $r(m)$: 20m, 30m, 45m ou 60m according to the Protection Level I, II, III or IV required for the project.
- $\Delta (m)$: $\Delta = \Delta T \times 10^6$, Field experience has proved that Δ is equal to the efficiency obtained during the PREVECTRON 3® evaluation tests.



PREVECTRON 3® height above structures to be protected

PREVECTRON 3® Model

PROTECTION RADIUS

PROTECTION LEVEL I : r = 20M

H (M)	2	3	4	5	10
S 60	31	47	63	79	79
S 50	27	41	55	68	69
S 40	23	35	46	58	59
TS 25	17	24	34	42	44
TS 10	10	15	21	26	28

PROTECTION LEVEL II : r = 30 M

H (M)	2	3	4	5	10
S 60	34	52	68	86	88
S 50	30	45	60	76	77
S 40	26	39	52	65	67
TS 25	19	29	39	49	51
TS 10	12	19	25	31	34

PROTECTION LEVEL III : r = 45 M

H (M)	2	3	4	5	10
S 60	39	58	78	97	99
S 50	34	52	69	86	88
S 40	30	45	60	75	77
TS 25	23	34	46	57	61
TS 10	15	22	30	38	42

PROTECTION LEVEL IV : r = 60 M

H (M)	2	3	4	5	10
S 60	43	64	85	107	109
S 50	38	57	76	95	98
S 40	33	50	67	84	87
TS 25	26	39	52	65	69
TS 10	17	26	34	43	49

PREVECTRON 3®

Model Range



S 60



S 50



S 40



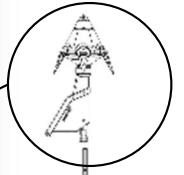
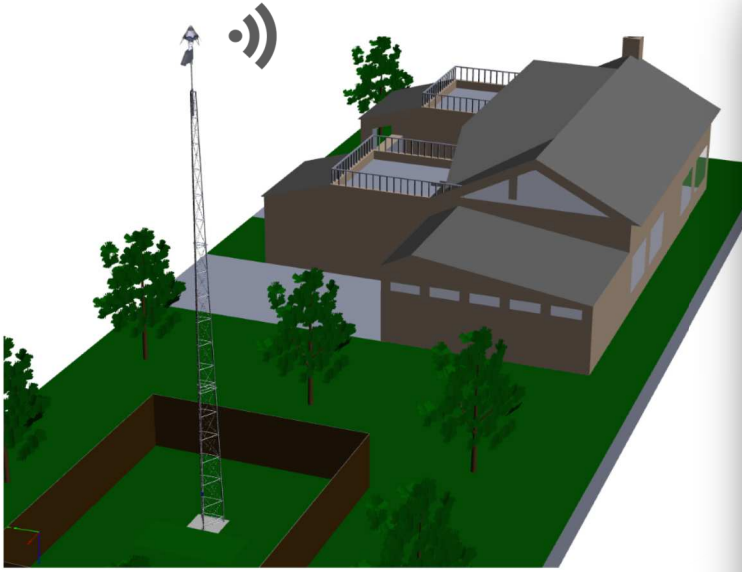
TS 25



TS 10







ISOLATED LIGHTNING PROTECTION SYSTEM USING REMOTE-TESTING ESE LIGHTNING AIR TERMINAL ESTATES, BASE CAMPS, OPEN AREAS



SELF-STANDING TOWER



-  Test Status
-  Lightning Strikes
0
-  Signal
-  Battery

