

SCHEMATIC DIAGRAM OF THE INTERNAL STRUCTURE SECTION OF THE SIGNBOARD
1-1

NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. THE SIZE OF THE SIGNBOARD IN THIS PICTURE IS FOR ILLUSTRATION ONLY, AND CUSTOM SIGNBOARD SIZES ARE ACCEPTED.

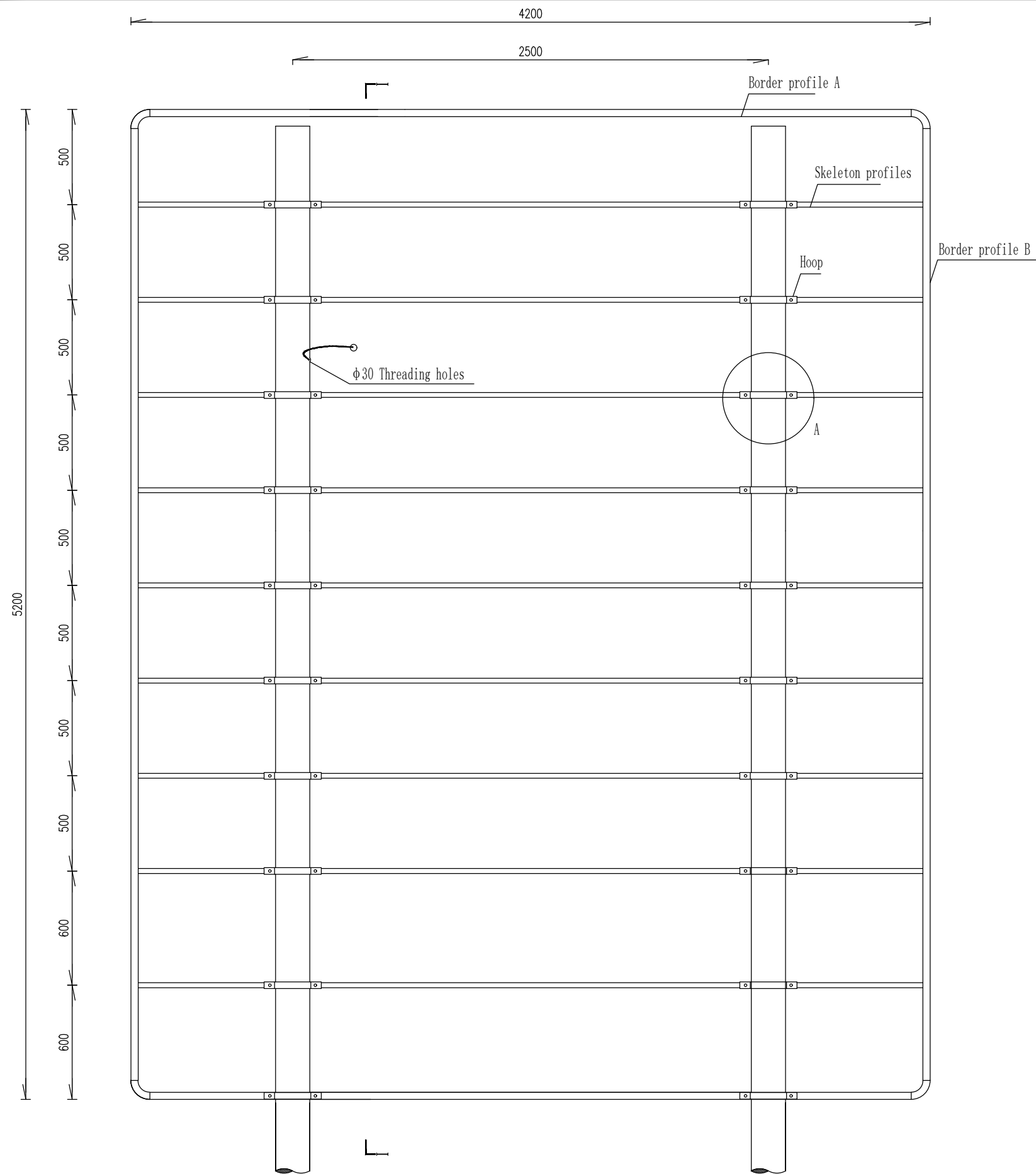


GUIDE SIGNS-Double column structure

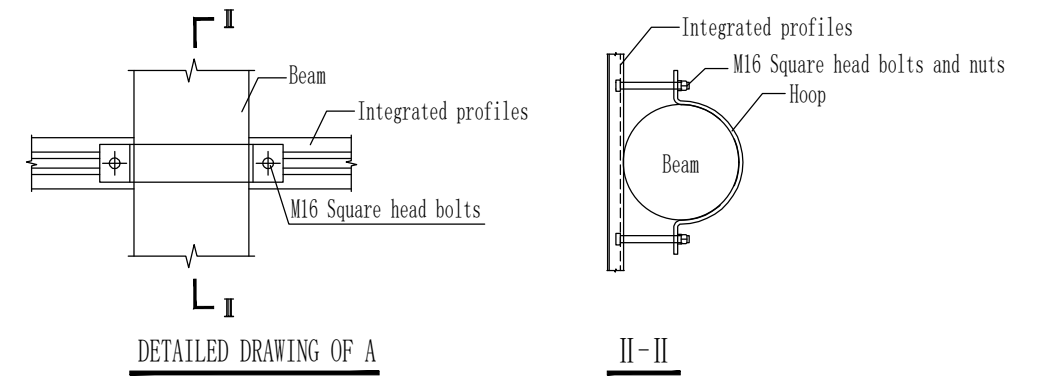
Active Illuminated traffic signs with panel display

Reflective sheeting: Nikkalite™ IV

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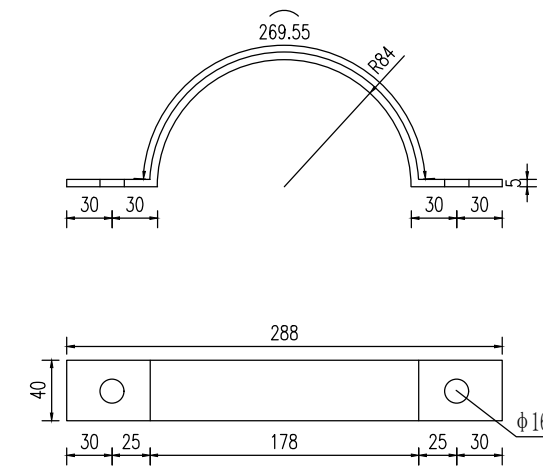


SCHEMATIC DIAGRAM OF THE CONNECTION BETWEEN THE SIGNBOARD AND THE CROSSBEAM
SCALE: 1:125



DETAILED DRAWING OF A

II-II



DETAILED DRAWING OF HOOP
SCALE: 1:5

NOTES:

1. ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.
2. THE SIGNBOARD IS CONNECTED TO THE CROSSBEAM WITH CLAMPS, AND THE CONNECTING BOLTS ARE SECURELY AND RELIABLY FASTENED.
3. THE DISTRIBUTION OF THE SKELETON PROFILE OF THE SIGNBOARD IS FOR REFERENCE ONLY, AND THE FINAL DESIGN SHALL BE BASED ON THE MANUFACTURER'S DETAILED DESIGN.



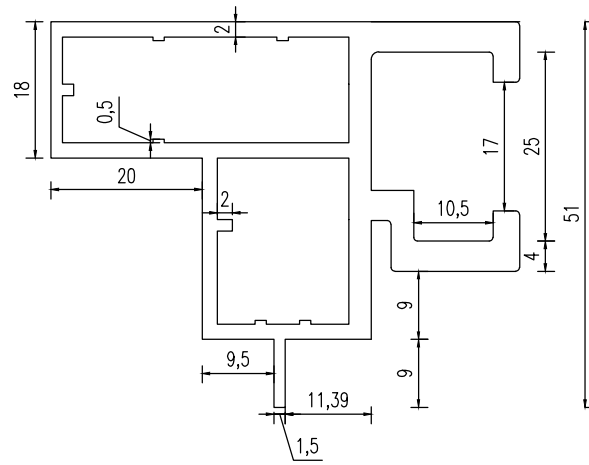
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Active Illuminated traffic signs with panel display

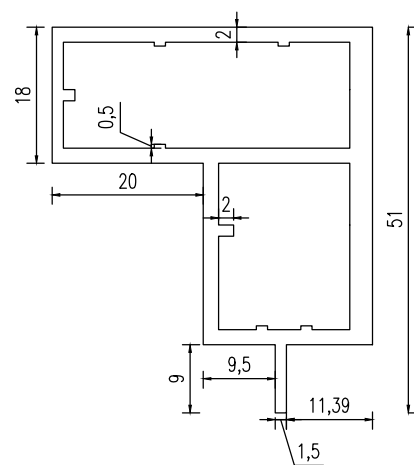
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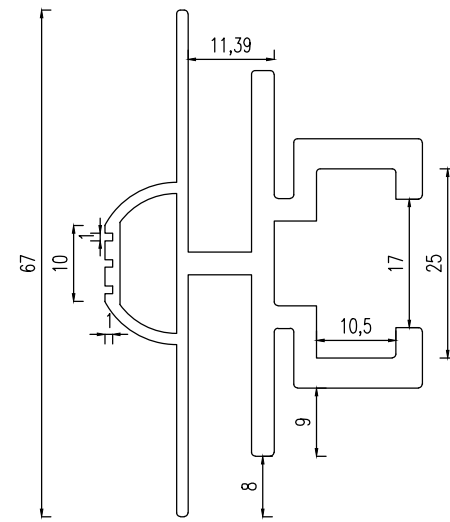
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Border profile A
SCALE: 1:1



Border profile B
SCALE: 1:1



Skeleton profiles
SCALE: 1:1

QUANTITY TABLE OF SIGN MATERIALS

Material name	Number	Specifications(mm)	Piece	Single piece weight (Kg)	Total weight (Kg)
Active illuminated signage	1	4000×2800	1	119.15	119.15
Hoop	2	40×5×379.55	16	0.66	10.56
Square head bolt with nut	3	M16×120	32	0.34	10.88

NOTES:

1. All dimensions in this drawing are in millimeters.
2. The production of sign boards should comply with the technical requirements of the group standard T/CISA001–2018 "Panel display self luminescence traffic signs".
Provide a type testing qualification report issued by a national level traffic safety facility or product testing and inspection agency. Using products that have obtained CCPC certification. The operation management software, cloud platform software, and dimming program software should all obtain a qualified testing report from the provincial software product testing center.
3. The average spacing between the vertical skeleton profiles of the illuminated signs shall not exceed 600mm, and the maximum spacing shall not exceed 800mm.
The specific spacing can be adjusted according to the requirements of the manufacturer of the active illuminated signs.
4. The sign board should meet the following technical requirements:
 - (1). The reflective base plate of the logo is composed of a reflective film and a crystal optical uniform plate.
 - (2). The text and graphics on the surface of the sign board are made of high transparency micro prism reflective film, The white light transmittance is $\geq 25\%$, and the light transmittance uniformity is 1.2:1 to 1.3:1.
 - (3). Standard mixed light source board requirements: The PCB board should be made of epoxy resin material, with a thickness of ≥ 1.1 mm, and a spacing of 28 x 28mm cloth beads for SMT LED.
 - (4). Without damaging the retroreflective material on the surface of the sign board, the light source board is placed in the sign box, and the light source projects directionally towards the back of the retroreflective material, displaying high-definition information content; Fully lay standard light source boards within the area of the logo layout, and the remaining space can be spliced using small-sized light source boards.
 - (5). The brightness indicators for the transparent display of logo information: white $\geq 300\text{cd/m}^2$, yellow $\geq 150\text{cd/m}^2$, red $\geq 45\text{cd/m}^2$, green $\geq 45\text{cd/m}^2$, blue $\geq 30\text{cd/m}^2$, brown $\geq 22\text{cd/m}^2$;
The average brightness contrast between the blue and white (green and white) parts of the logo ranges from 1:5 to 1:18.
 - (6). The packaging around the luminous sign should be made of aluminum alloy profiles, which should be made of integrated aluminum alloy materials. The aluminum alloy should be 6063T5.
The four corners are combined with aluminum alloy elbows made of molds, with an overall thickness of $\leq 60\text{mm}$ (excluding support components).
 - (7). The overall weight of the sign is $\leq 15\text{KG/m}^2$, with a designed service life of 7–10 years and a free maintenance period of 2 years.
 - (8). The automatic photosensitive control adopts a solar circuit voltage drop analysis control module. The control unit can automatically turn on/off the sign emitting unit based on the light intensity around the sign.
The sign emitting unit can automatically adjust the brightness according to the day and night light intensity, maintaining a relatively balanced luminous contrast
 - (9). The environmental illumination detection device should use polycrystalline silicon as the photosensitive element and adopt solar voltage drop photoelectric control technology.
 - (10). The normal effective dynamic visual recognition distance at night is ≥ 210 meters, and the static visual recognition distance is ≥ 250 meters.
 - (11). When using the power grid for power supply, the input voltage is 220V and the output voltage is 24V.
 - (12). The logo should be equipped with lightning protection, touch and leakage protection devices, and the wiring cables should not be exposed.
 - (13). Configure intelligent IoT terminal modules and status detection modules that can be connected to the road traffic safety facility operation management system software.
 - (14). The sign structure should have the ability to withstand wind load deformation, and should be able to withstand normal lighting under wind force of 16 levels, with no damage to the reflective film and no depression in the structure.



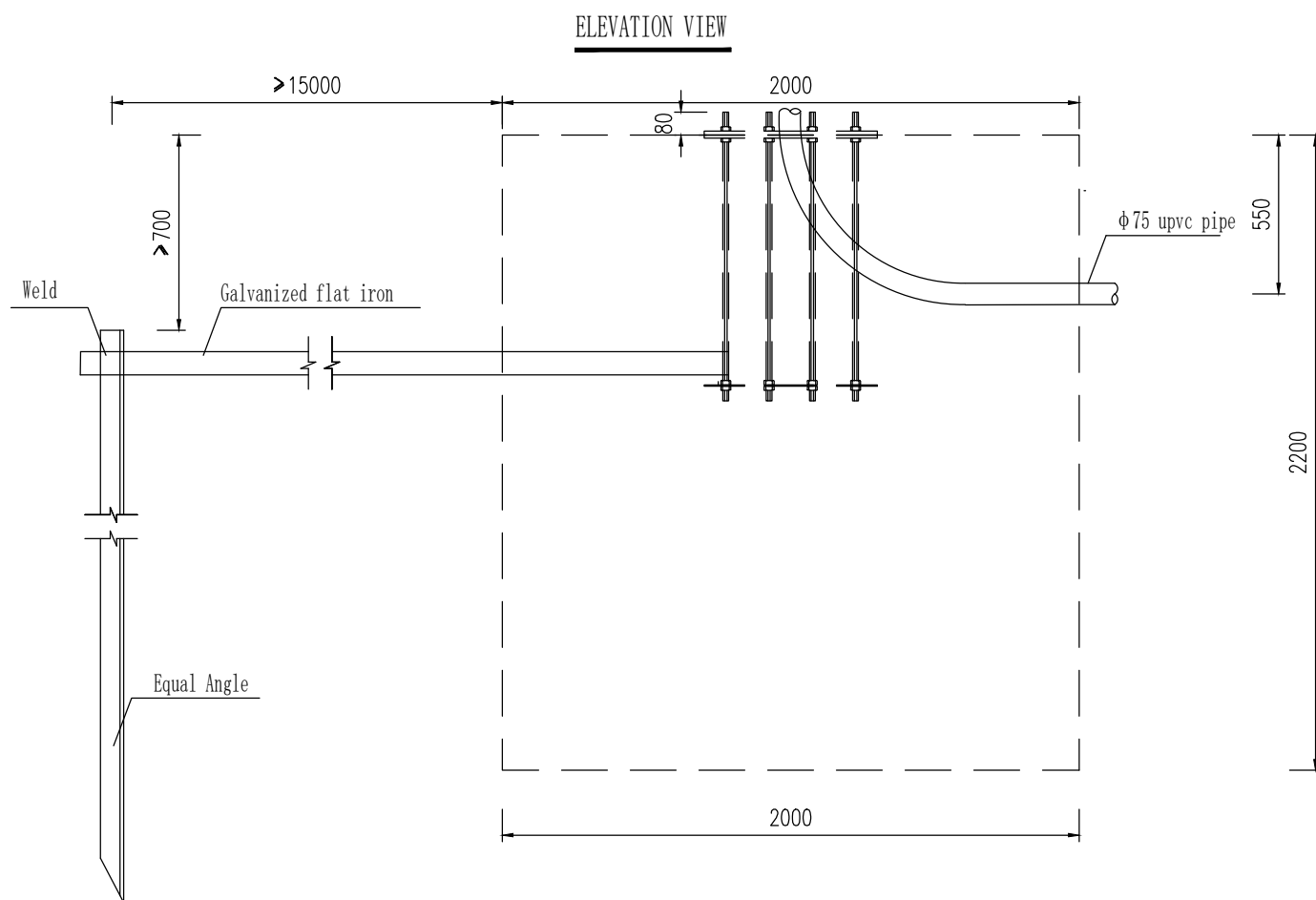
GUIDE SIGNS-Double column structure

Active Illuminated traffic signs with panel display

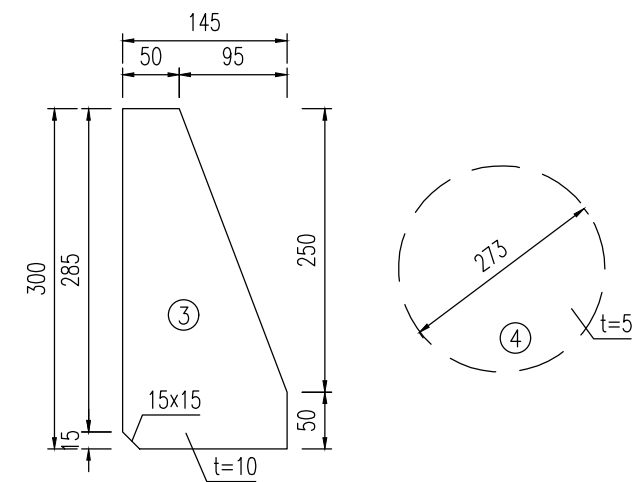
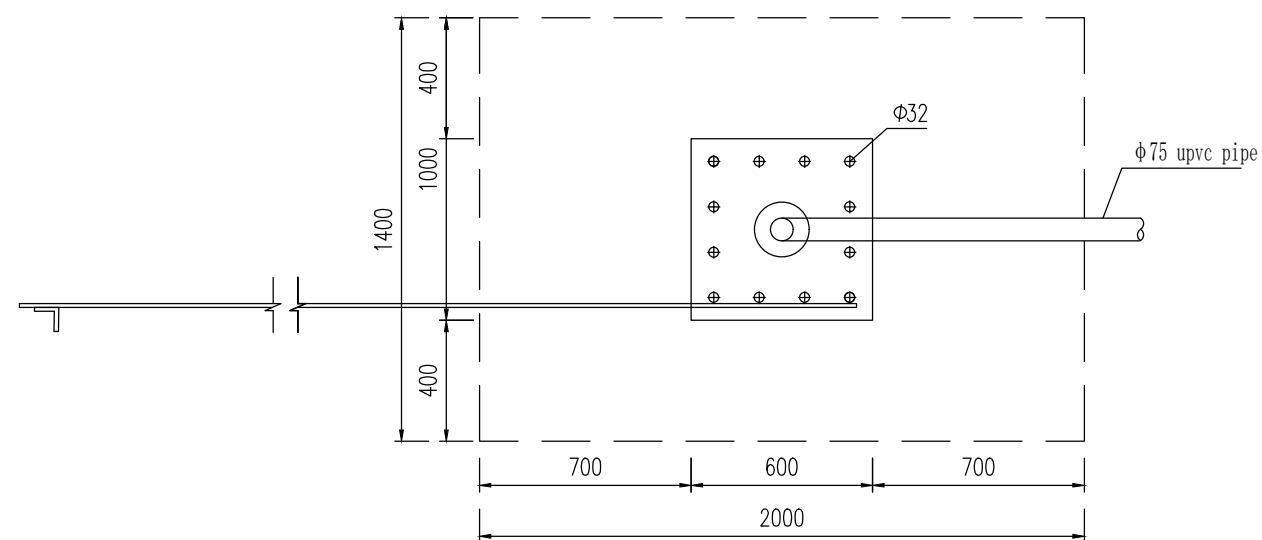
Reflective sheeting: Nikkalite™ IV

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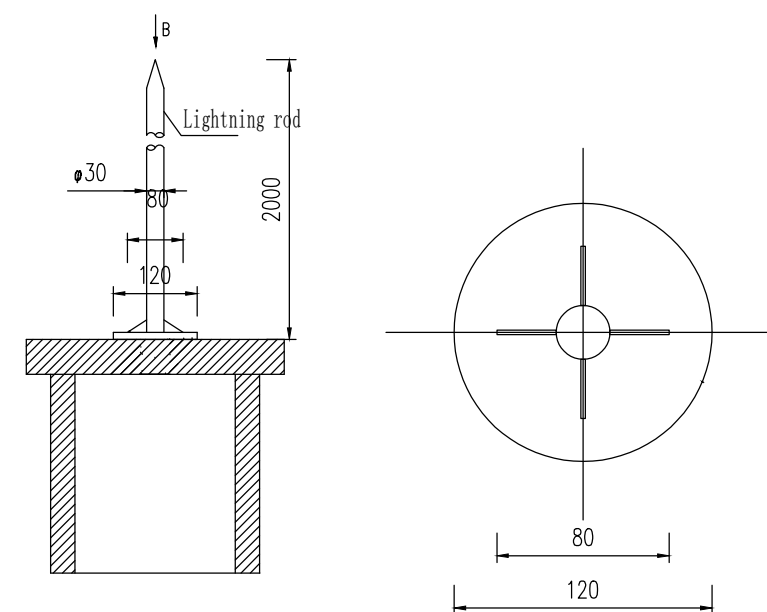
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PLAN VIEW



DETAILED DRAWING OF LIGHTNING ROD



NOTES:

1. All dimensions in this drawing are in millimeters.
2. The grounding electrode and grounding connection wire should be hot-dip galvanized, and anti-corrosion treatment should be carried out after welding.
3. After the grounding construction is completed, the grounding resistance should be tested. The grounding resistance value should be less than 4 ohms. If it does not meet the requirements, an additional grounding electrode or resistance reducing agent should be added.



GUIDE SIGNS-Double column structure

Active Illuminated traffic signs with panel display

Reflective sheeting: Nikkalite™ IV

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QUANTITY TABLE OF SIGN MATERIALS

Material name	Number	Specifications(mm)	Piece	Single piece weight(Kg)	Weight (Kg)	Notes
Steel pipe	1A	Φ273x12x7417	1	572.57	1273.81	
	1B	Φ273x12x9083	1	701.24		
Steel plate	2	600x600x20	2	56.52	271.68	
	3	145x300x10	16	2.47		
	4	Φ203x5	2	1.27		
	5A	600x600x10	2	28.26		
	5B	600x600x5	2	14.13		
Rebar	8	Φ12x2180	64	1.31	122.72	
	9	Φ8x6580	16	2.13		
	10	Φ12x1350	4	1.20		
Anchor bolt	11	M30x1000	24	7.07	169.68	
Galvanized angle steel	14	50x5x2500	3	9.42	59.76	
Galvanized flat iron	15	-40x4	25	1.26		
Lightning rod	16	Φ30x2000		1		
Upvc pipe	17	Φ75UPVC pipe		4		
Controller	18			1		
Concrete		C25		12.32m ³		



I-Road Technology

GUIDE SIGNS-Double column structure

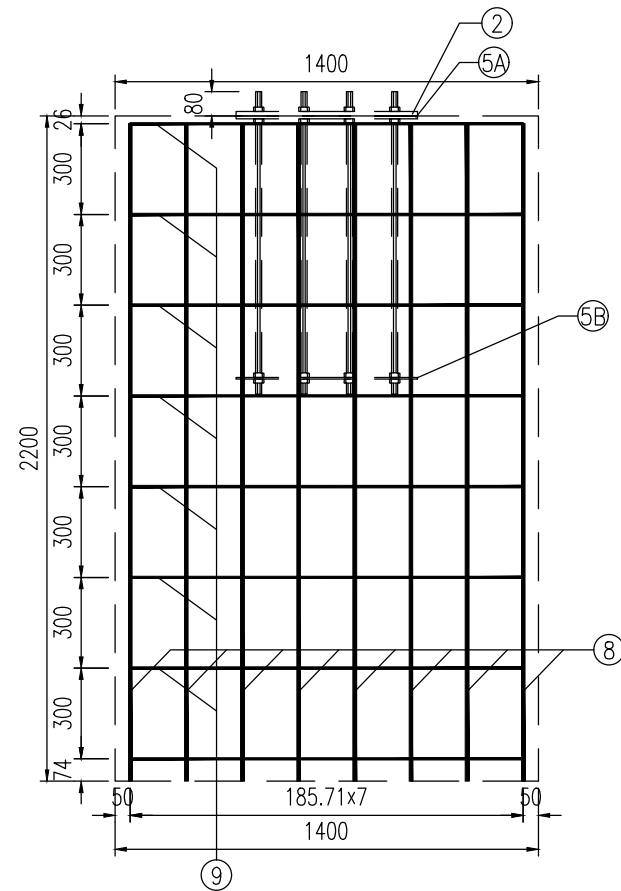
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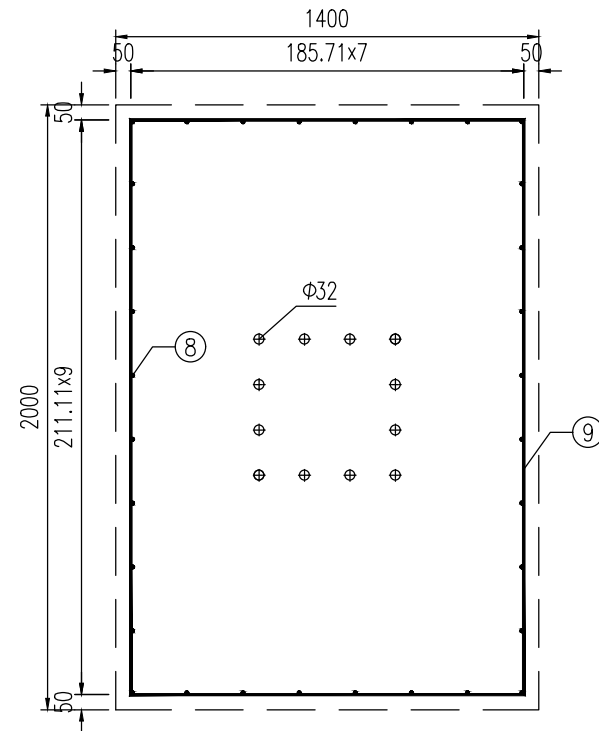
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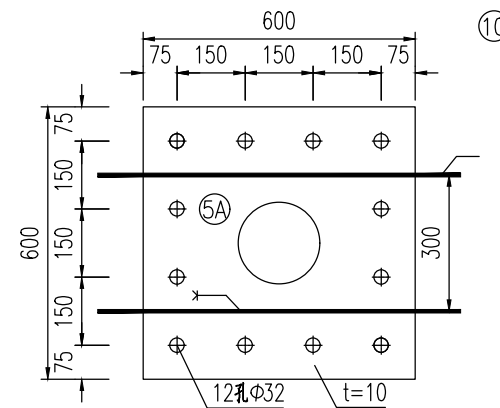
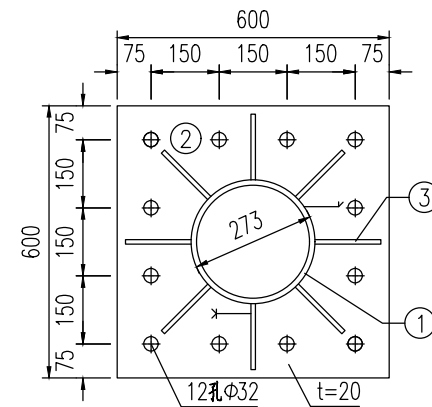
VERTICAL VIEW OF FOUNDATION REINFORCEMENT



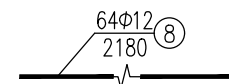
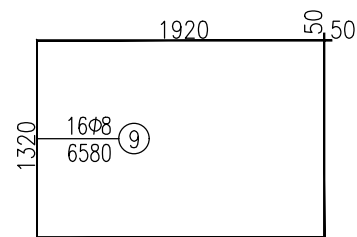
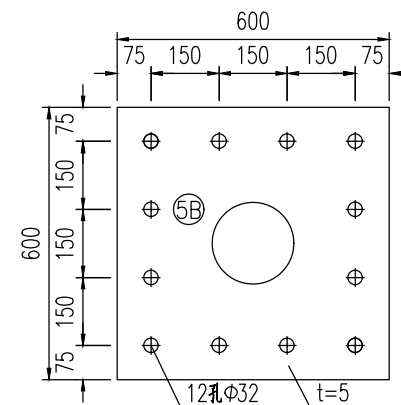
PLAN VIEW OF FOUNDATION REINFORCEMENT



PLAN VIEW OF FOUNDATION FLANGE



PLAN VIEW OF ANCHOR PLATE



NOTES:

1. All dimensions in this drawing are in millimeters.
2. The steel in the figure is Q235 steel, except as indicated.