

COMMITTENTE:



DIREZIONE LAVORI:



APPALTATORE:



PROGETTAZIONE:

MANDATARIA



MANDANTI



IL DIRETTORE DELLA PROGETTAZIONE:

Ing. L. LACOPO

Responsabile integrazione fra le varie prestazioni specialistiche

PROGETTO ESECUTIVO

ITINERARIO NAPOLI-BARI RADDOPPIO TRATTA CANCELLO - BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO - VITULANO 2° E 3° SUBLOTTO TELESE - SAN LORENZO - VITULANO

DISEGNO

IMPIANTI DI TRAZIONE ELETTRICA

LINEA DI CONTATTO

Disegno Costruttivo Protezione sostegno e relativo TT su marciapiede

IMPIANTI DI TRAZIONE ELETTRICA	APPALTATORE	SCALA:
IL REVISORE Ing. A. CARLUCCI	IL DIRETTORE TECNICO Ing. M. FERRONI	

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

IF2R 02 E ZZ BZ LC0000 004 A

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato Data
A		F.NEGRI	29/06/21	A.GANDOLFI	30/06/21	M.BARILLI	30/06/21	IL PROGETTISTA

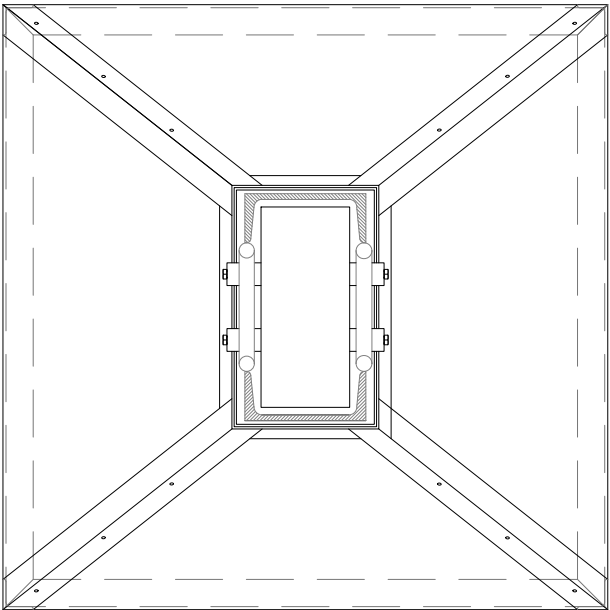


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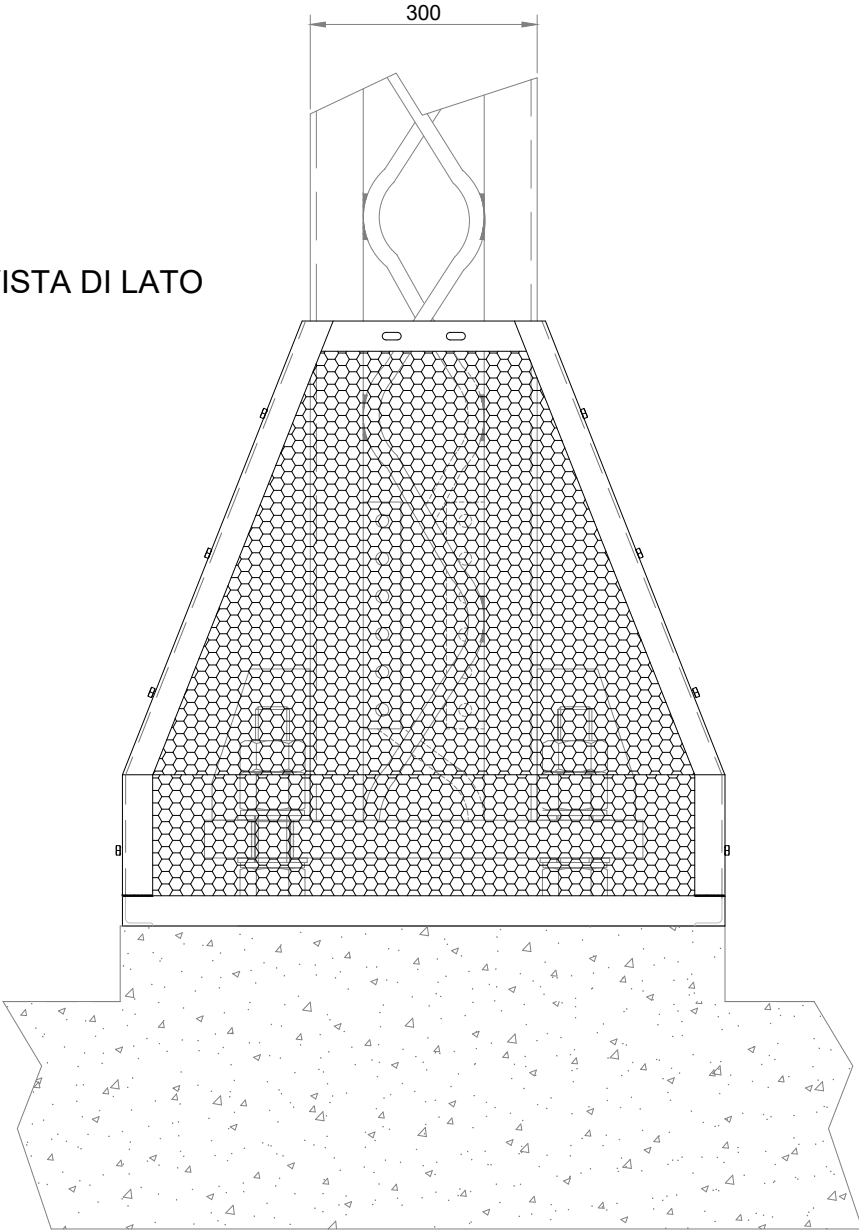
n. Elab.:

TIPO 1 - CARTER PER PALO LSU 16
ASSIEME

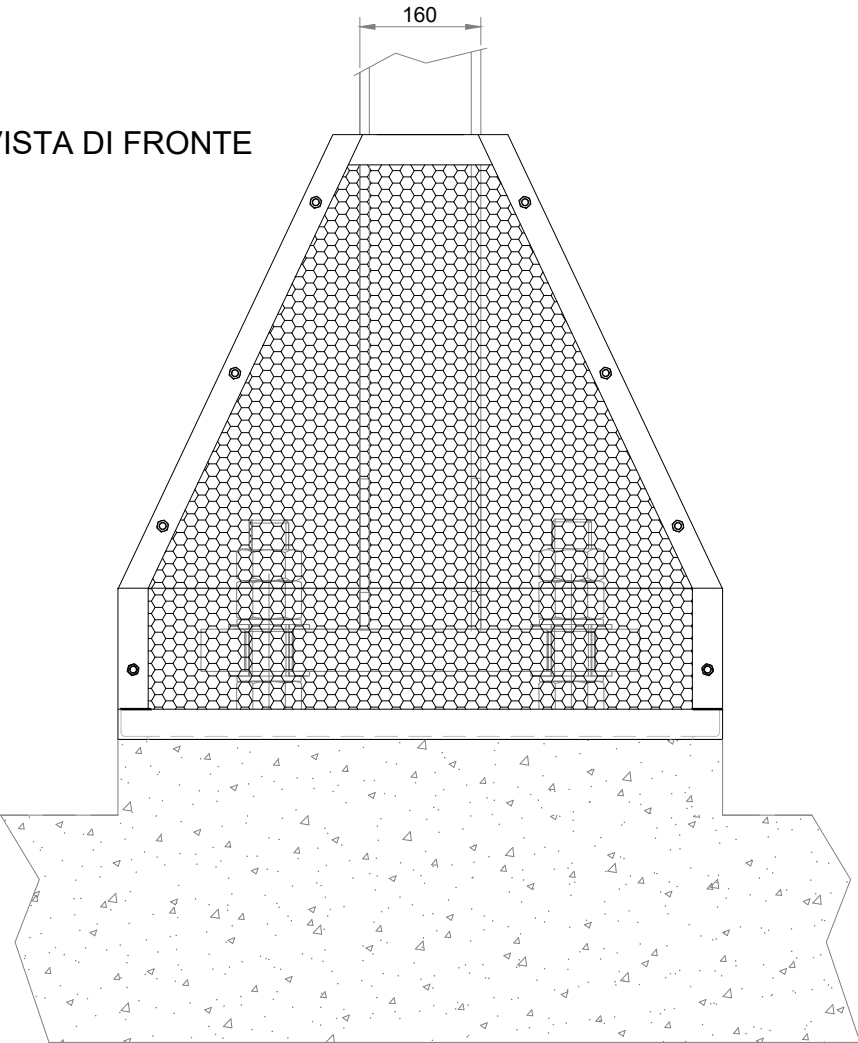
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VISTA DI LATO

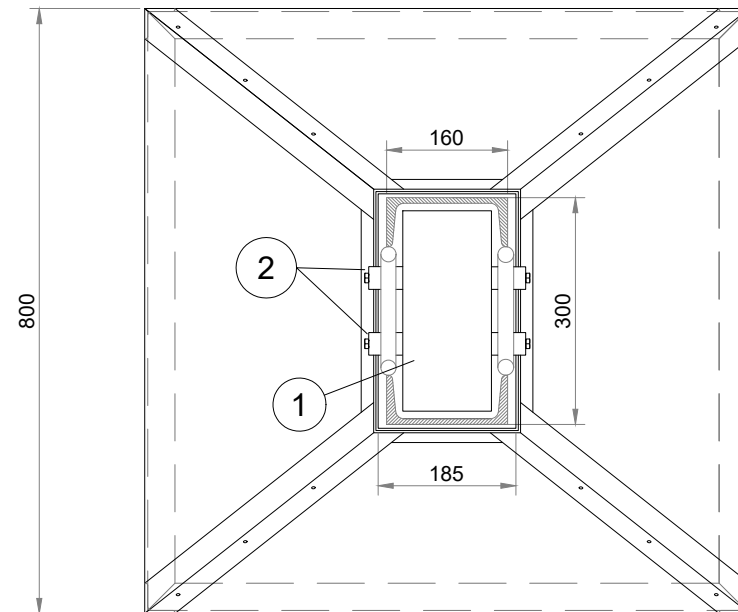


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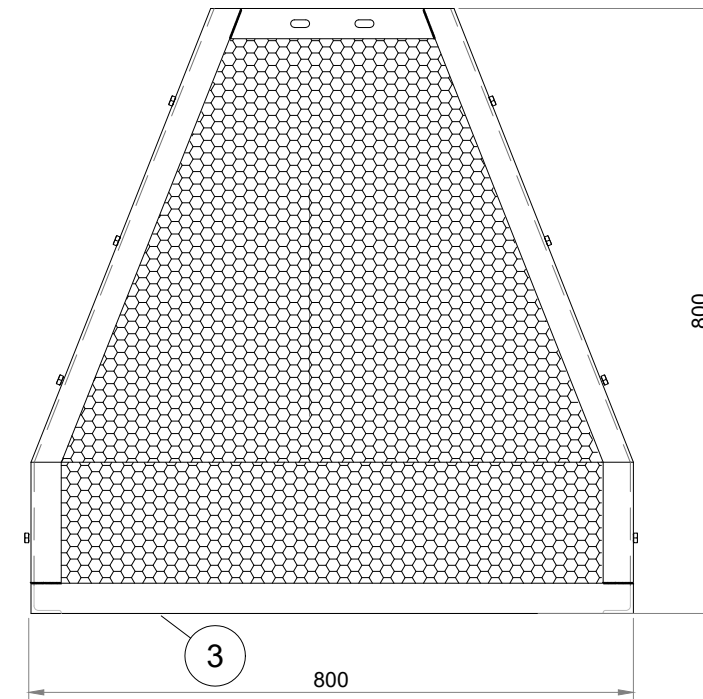


TIPO 1 - CARTER PER PALO LSU 16 DETTAGLI

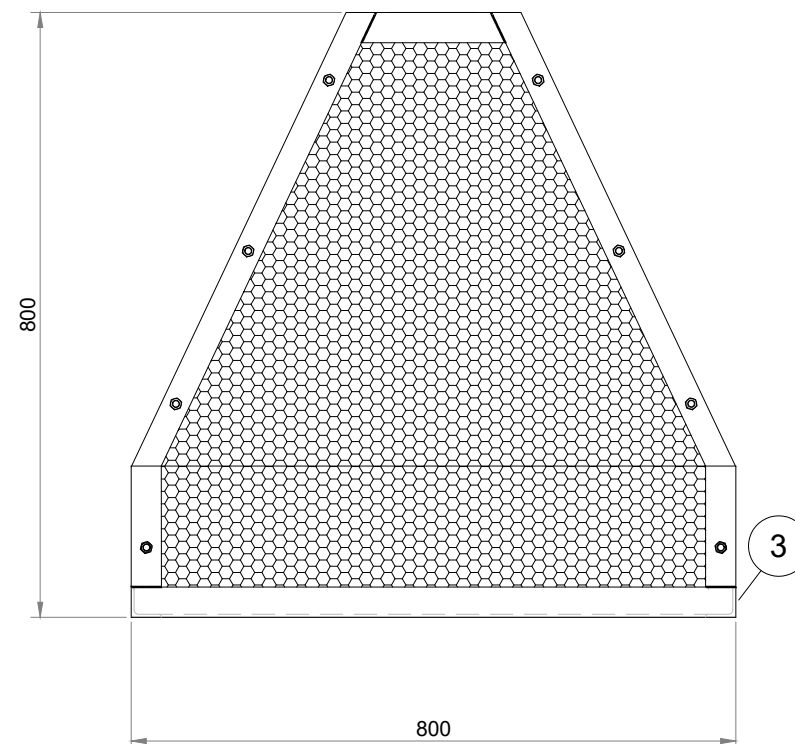
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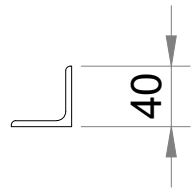
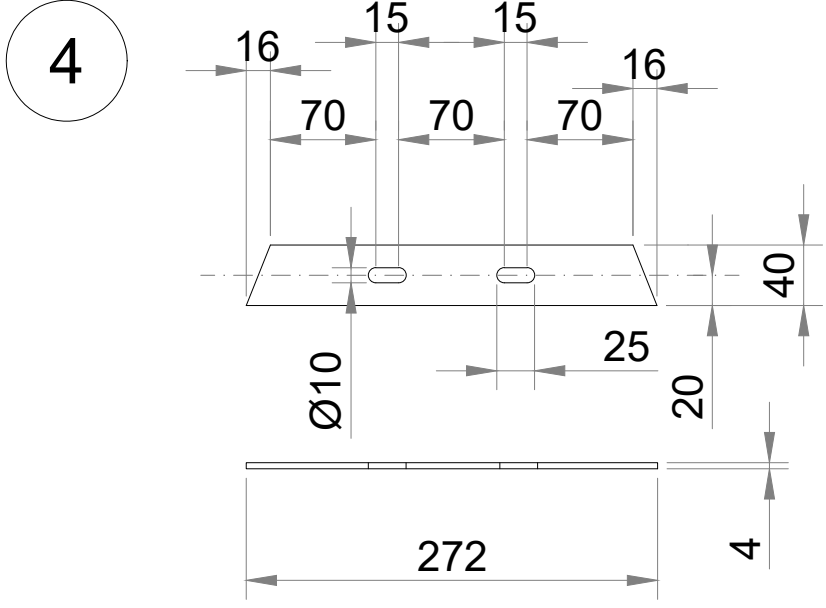
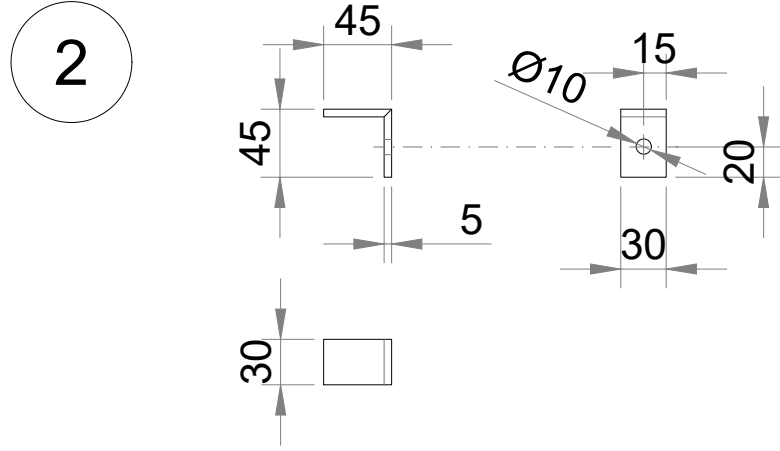
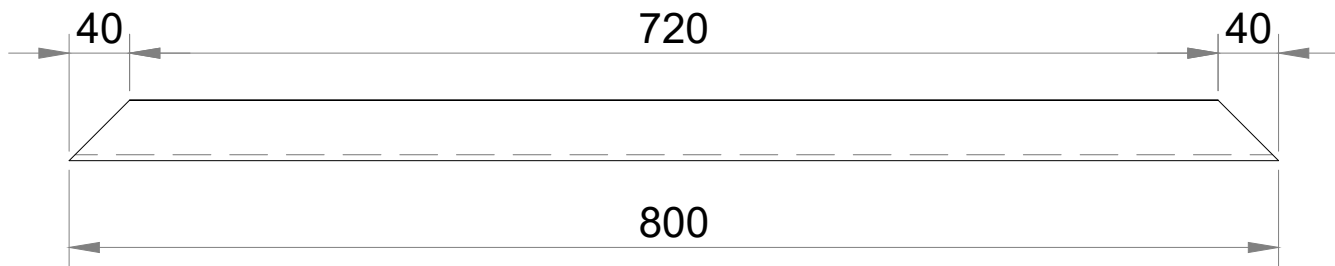
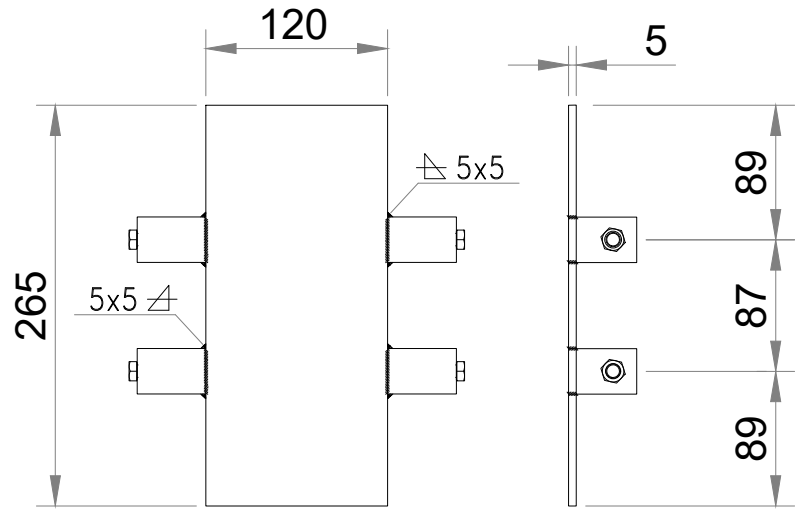
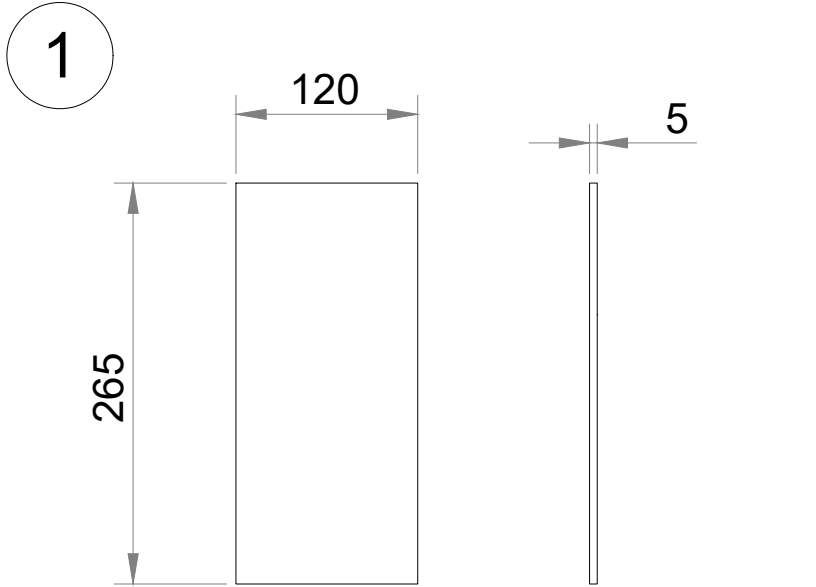
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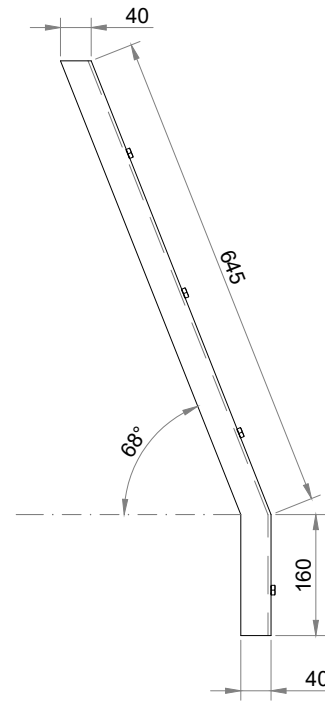
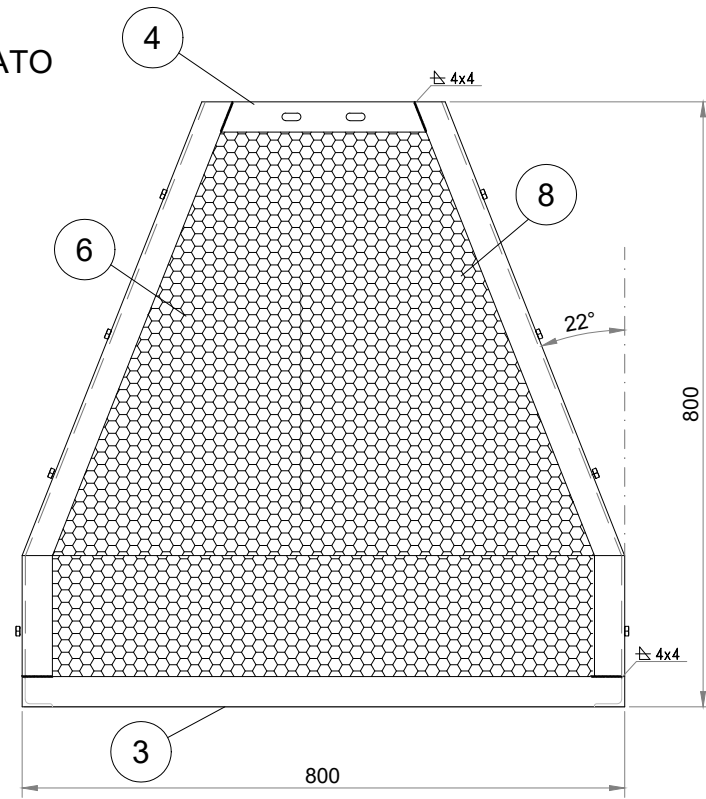
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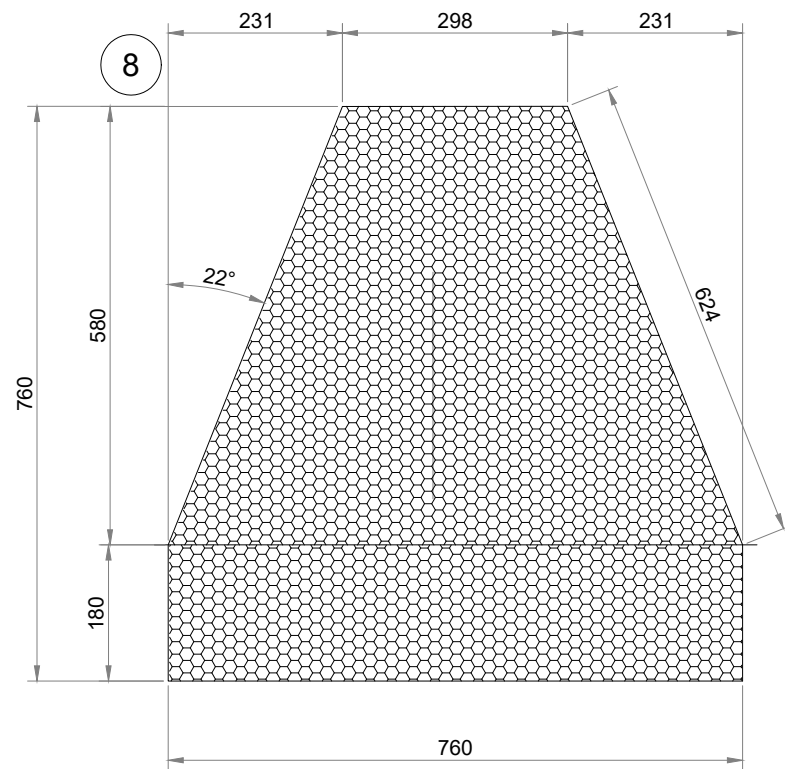
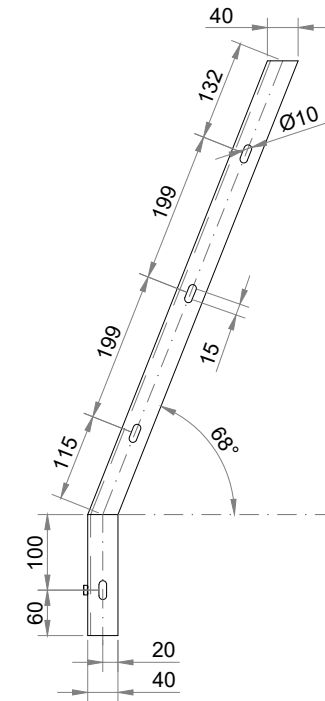
TIPO 1 - CARTER PER PALO LSU 16
DETTAGLI



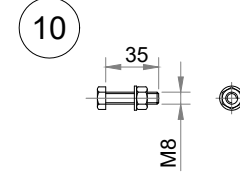
VISTA DI LATO



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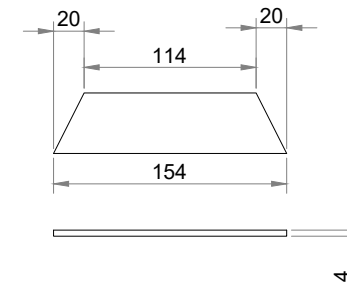


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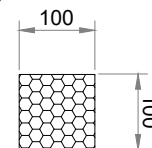


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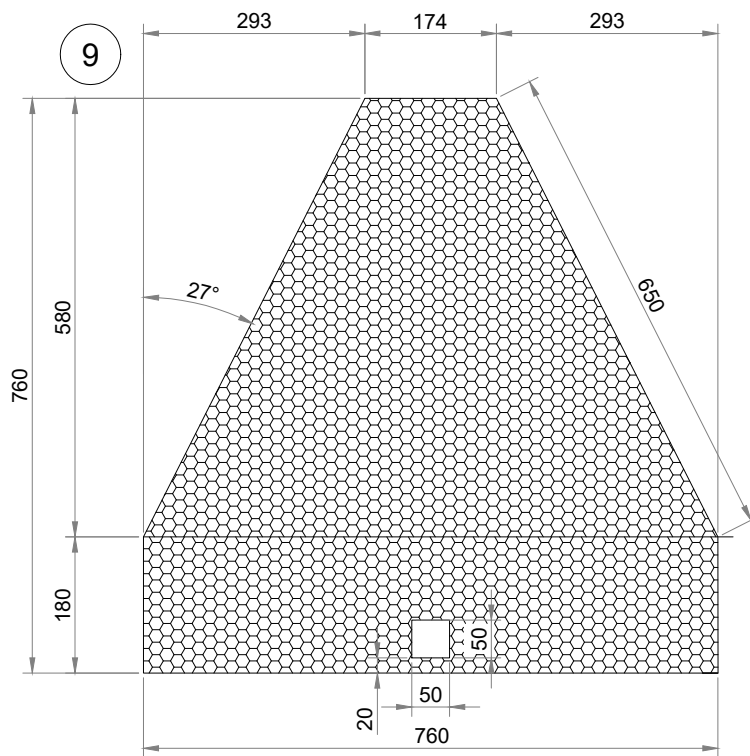
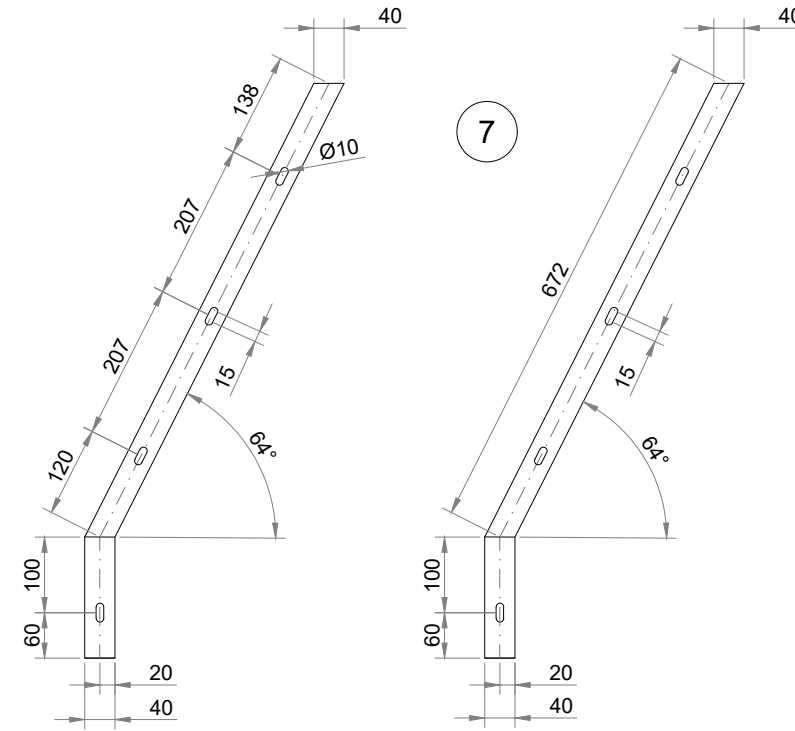
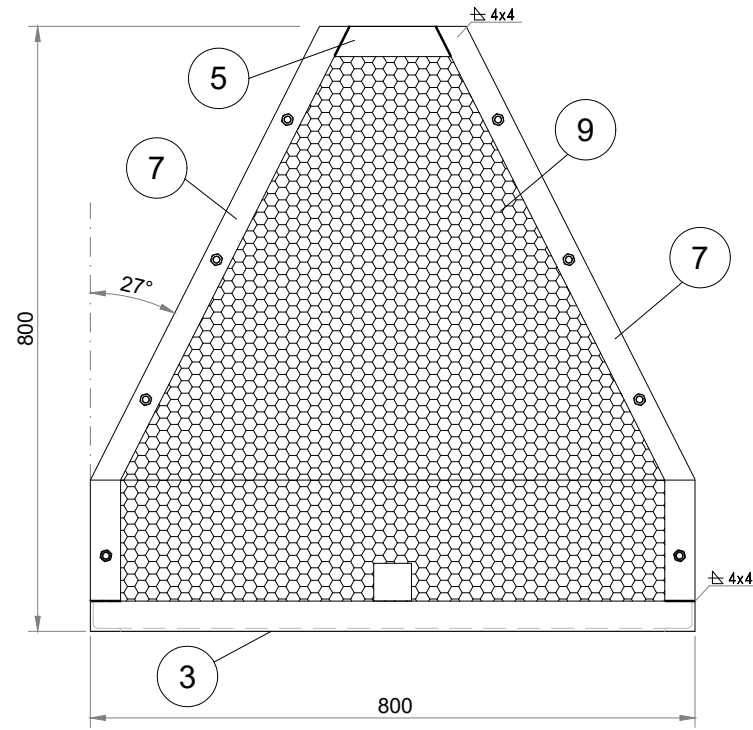


9/1



TIPO 1 - CARTER PER PALO LSU 16
DETTAGLI

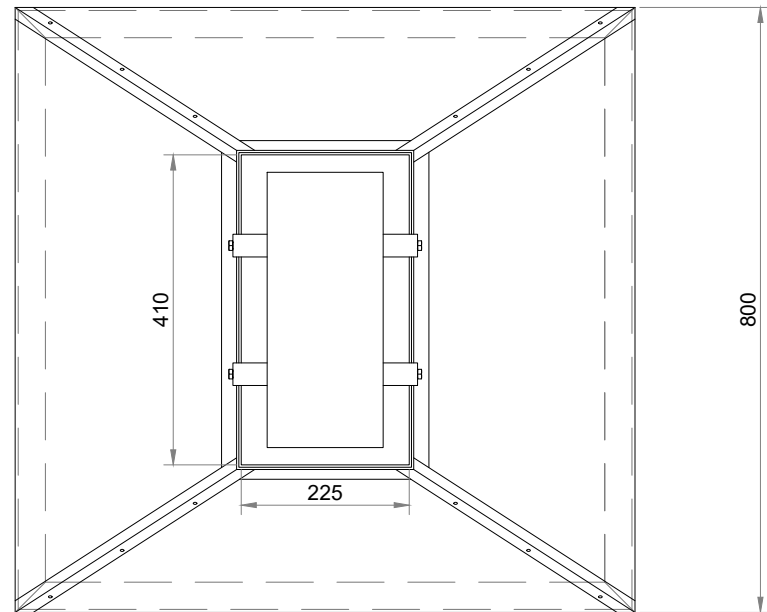
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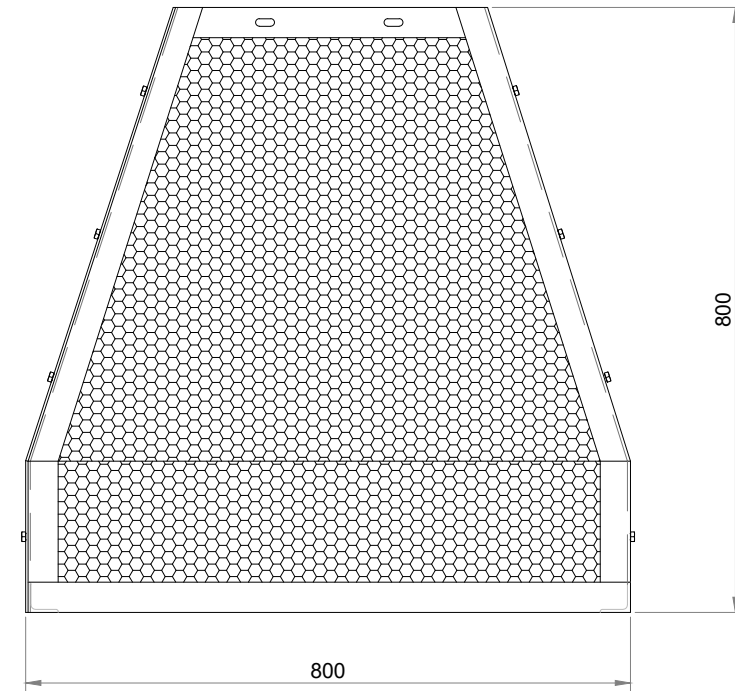
LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE SU PALO LSU 16 TIPO 1

POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	1	Piatto 120x5	265	1,292	ACCIAIO S275 JR UNI EN 10025
2	4	Piatto 30x5 Piegato a 90°	90	0,440	ACCIAIO S355 JR UNI EN 10025
3	4	Profilato L 40x40x4	800	8,015	ACCIAIO S275 JR UNI EN 10025
4	2	Piatto 40x4	272	0,709	ACCIAIO S275 JR UNI EN 10025
5	2	Piatto 40x4	154	0,402	ACCIAIO S275 JR UNI EN 10025
6	4	Lamiera piegata 80x4	805	8,372	ACCIAIO S275 JR UNI EN 10025
7	4	Lamiera 40x4	832	4,326	ACCIAIO S275 JR UNI EN 10025
8	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavato da tagli)	ACCIAIO S275 JR UNI EN 10025
10	24	Vite M8	35	0,422	ACCIAIO CI. 6.8 - UNI 5737
	24	Dado M8	-	0,127	ACCIAIO CLASSE 6 - UNI 3740
	24	Rondella grower M8	-	0,054	ACCIAIO - UNI 1751
Totale Kg				48,927	

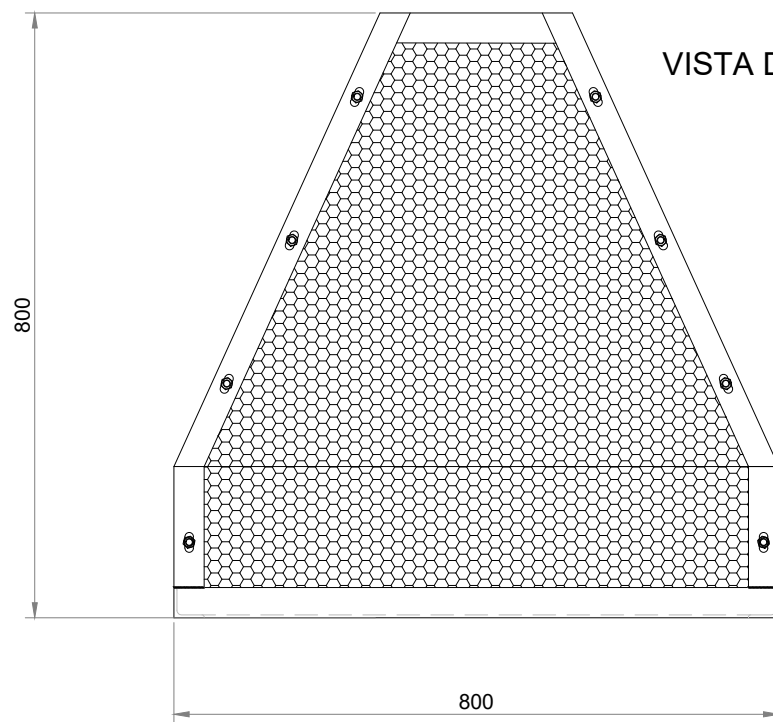
VISTA DALL'ALTO



VISTA DI LATO

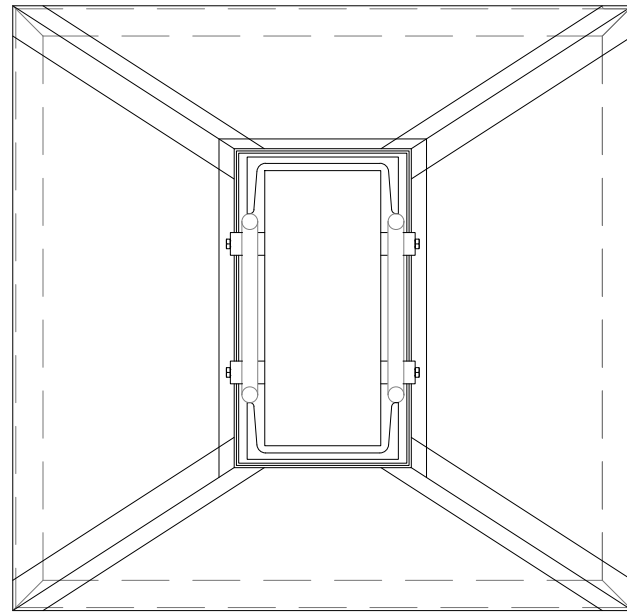


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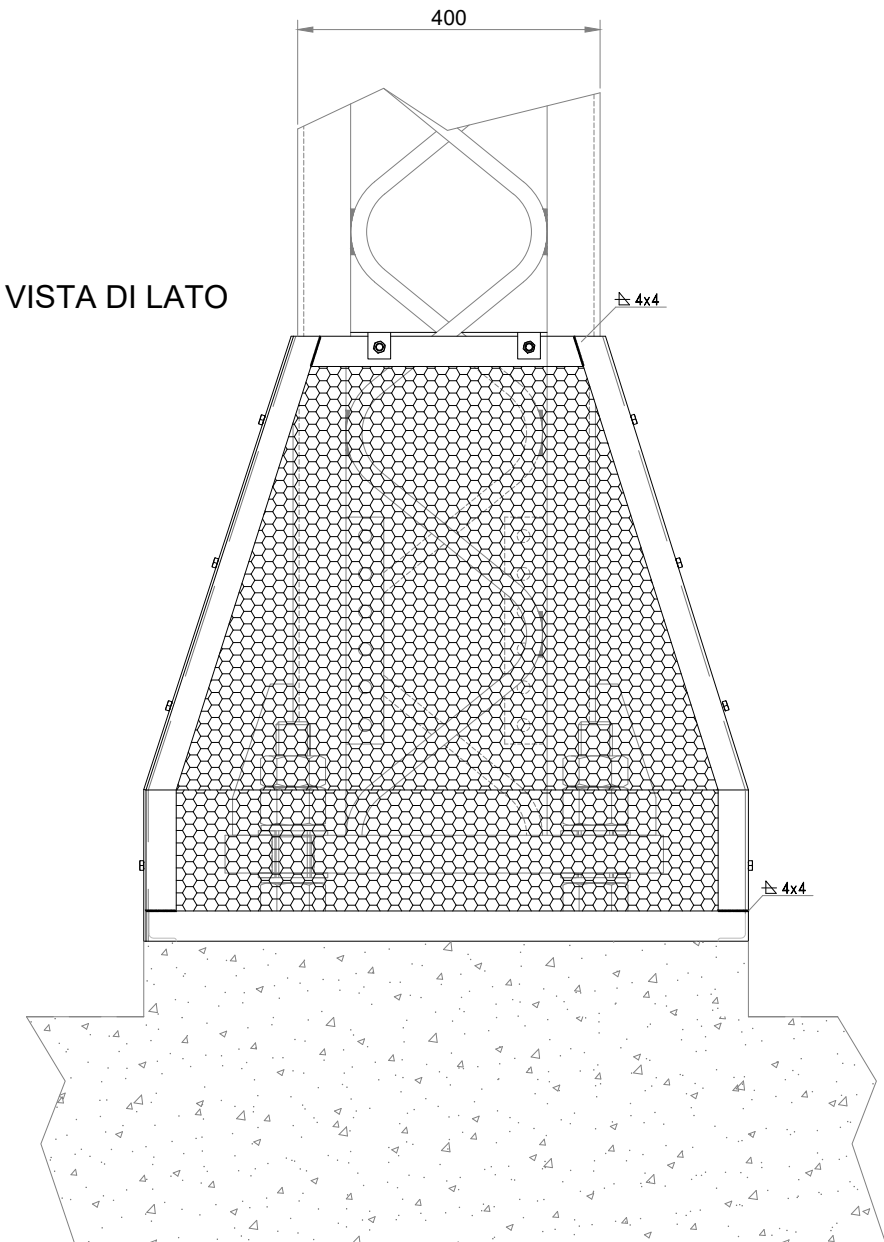


TIPO 2 - CARTER PER PALO LSU 18-20
DETTAGLI

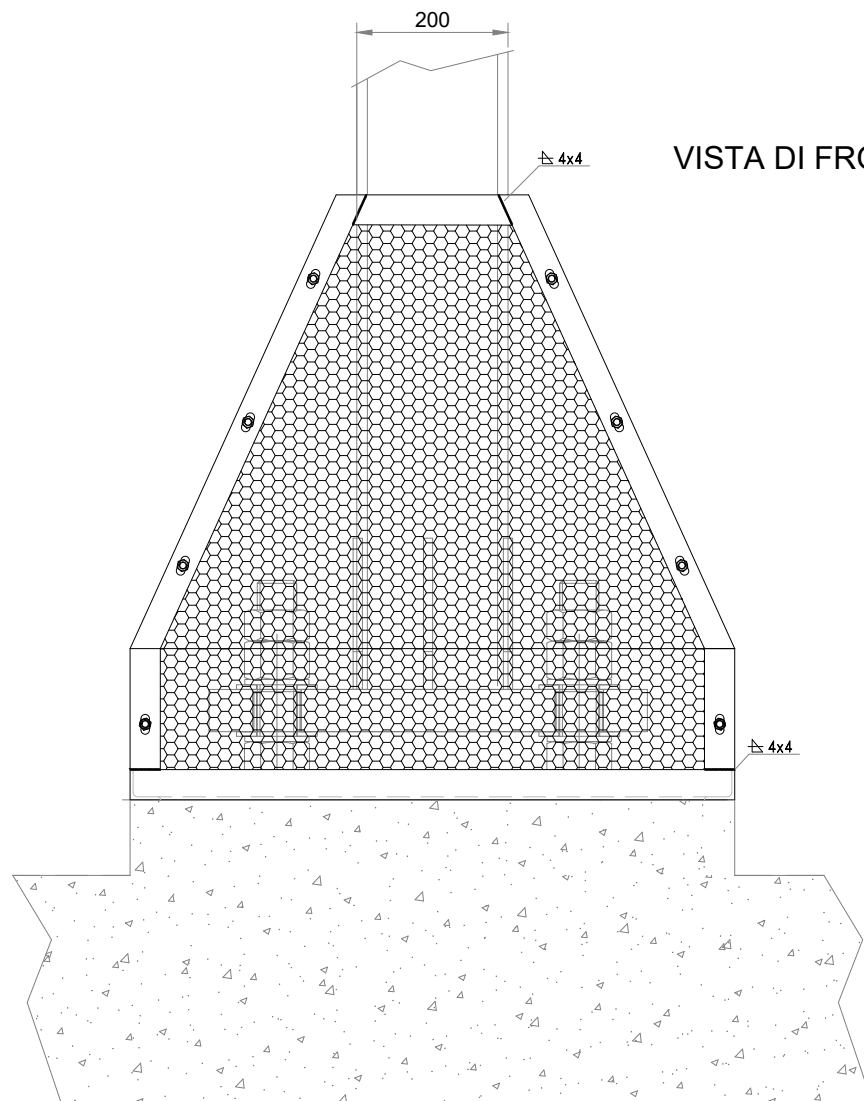
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VISTA DI LATO

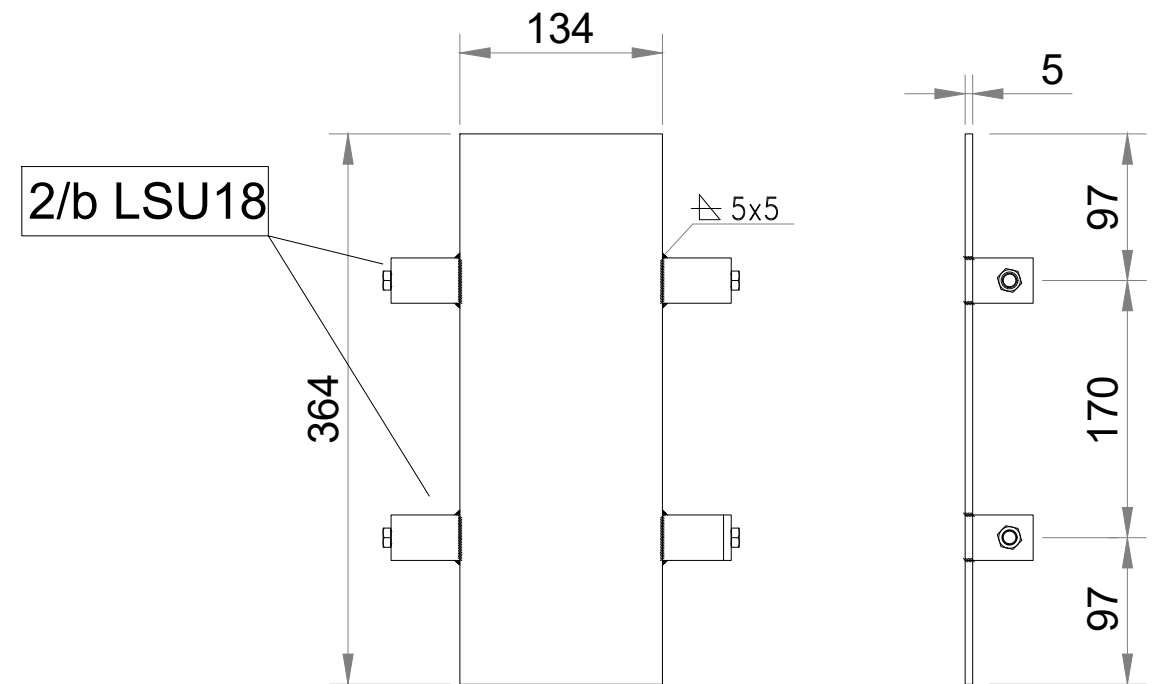
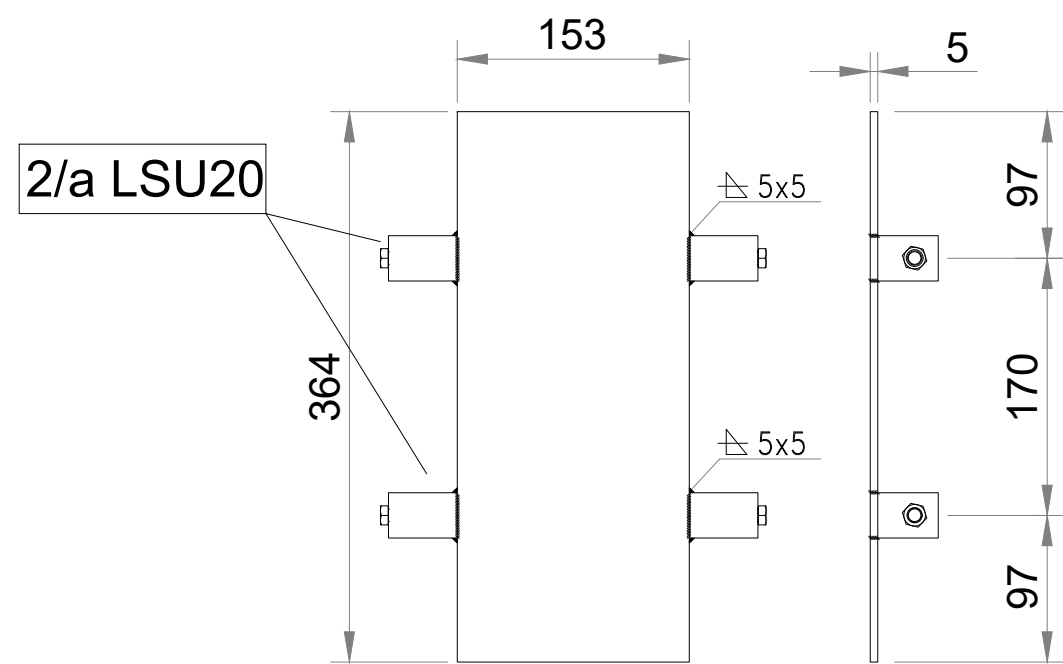
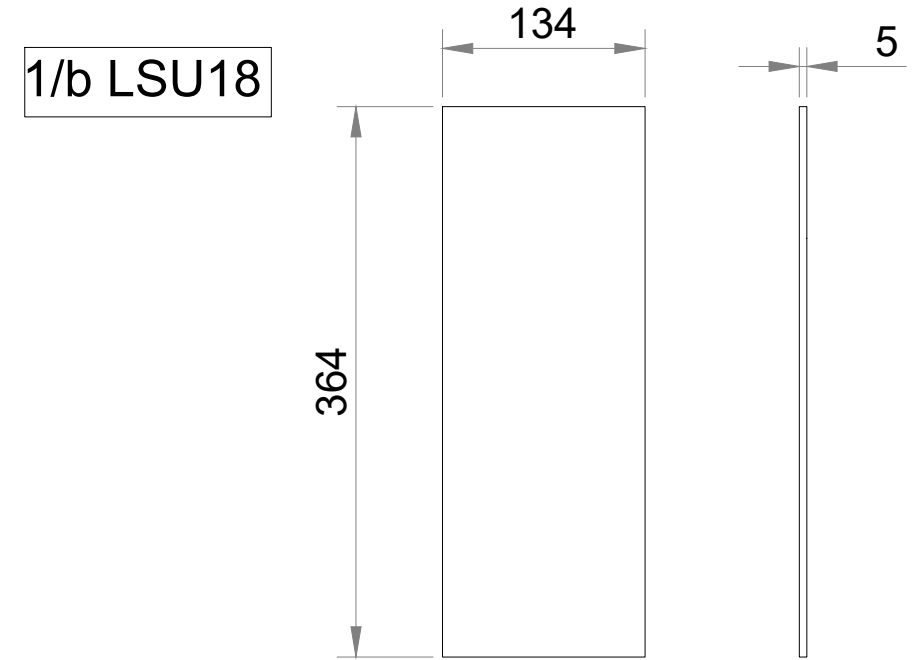
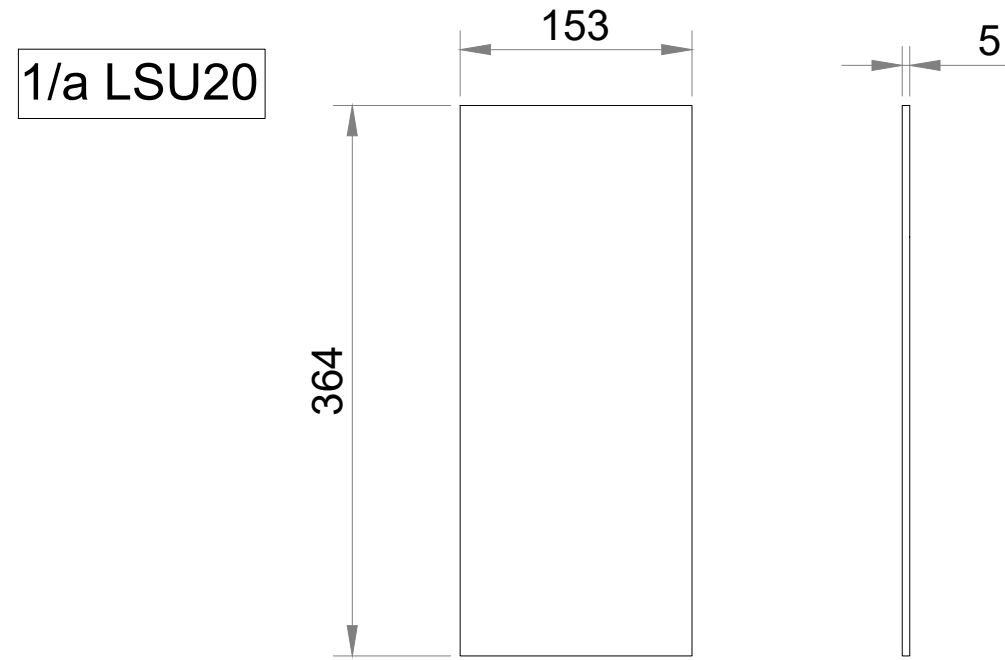


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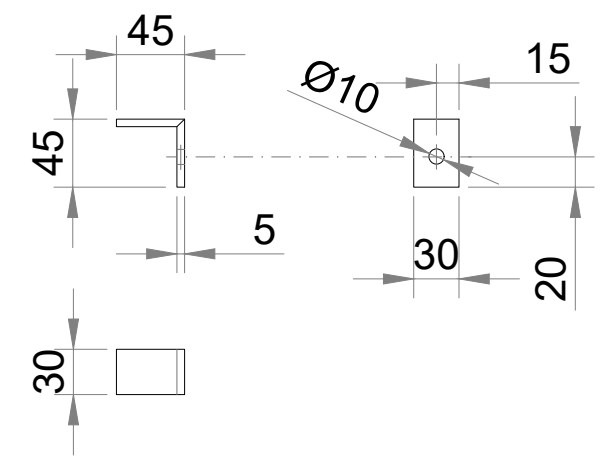
TIPO 2 - CARTER PER PALO LSU18 - 20
ASSIEME

TIPO 2 - CARTER PER PALO LSU18 - 20
DETTAGLI

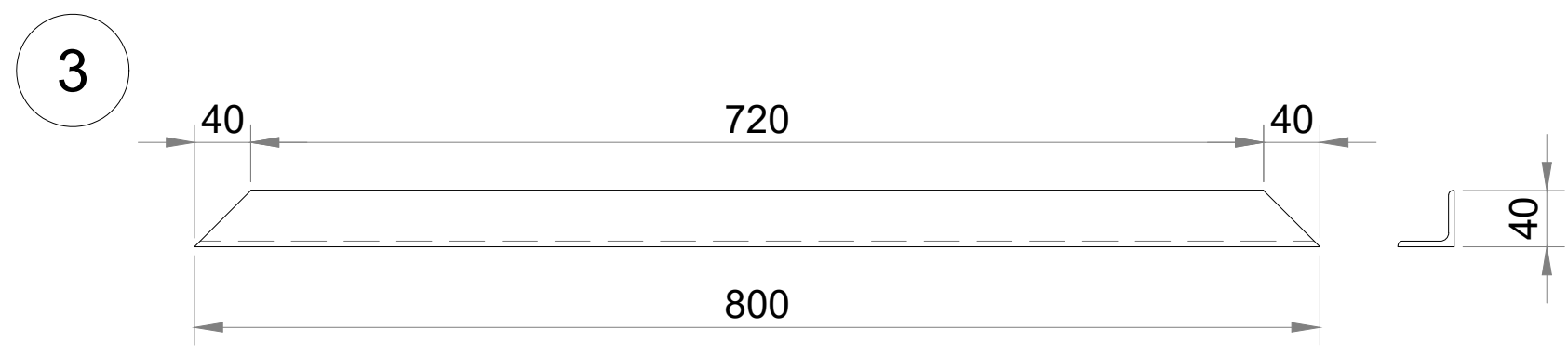
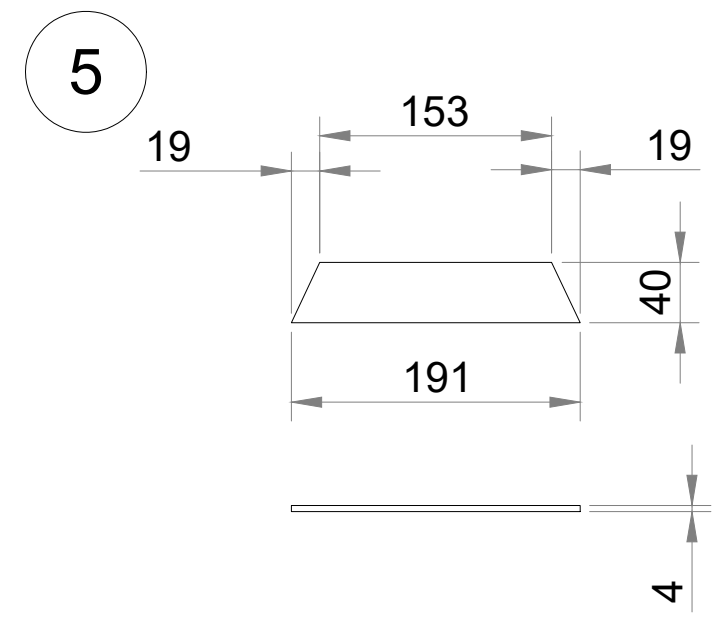
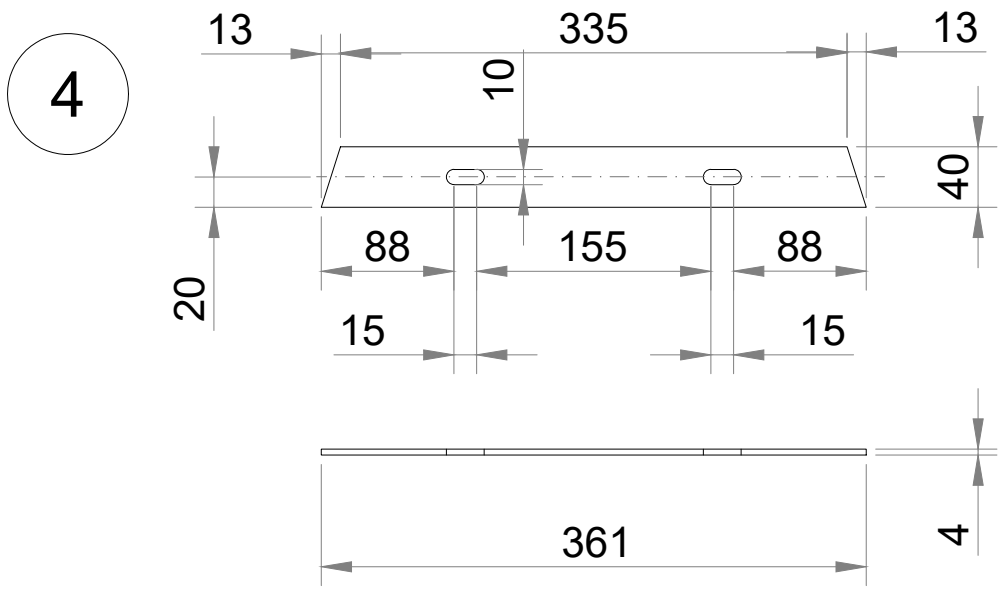
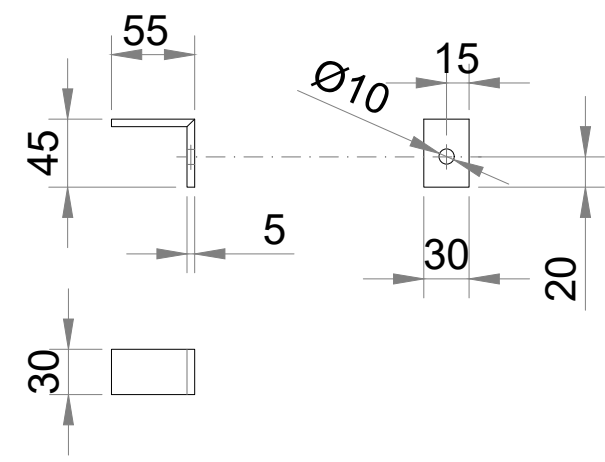


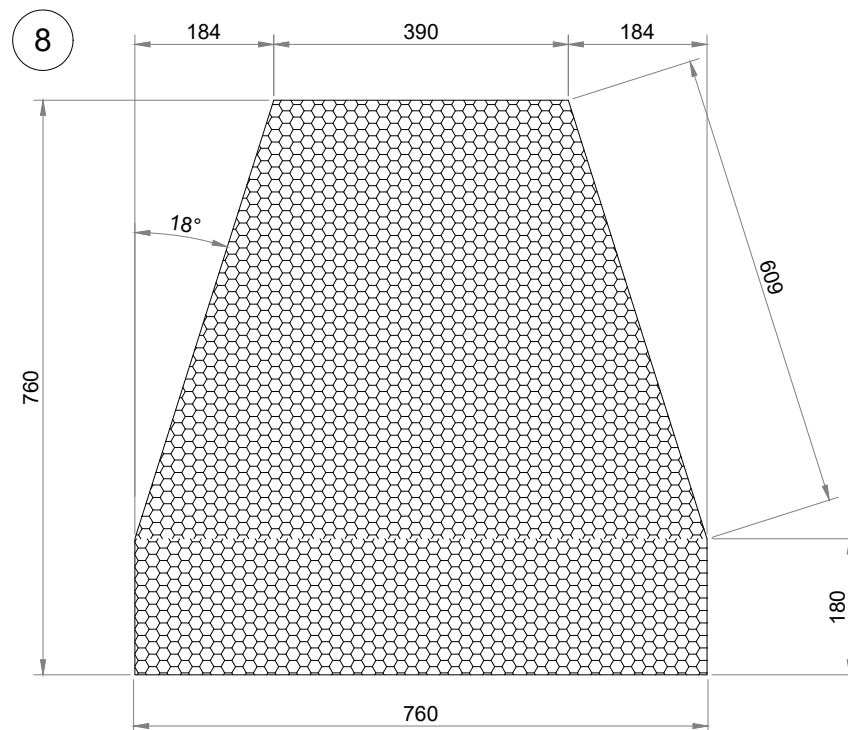
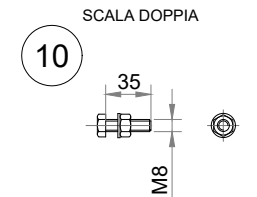
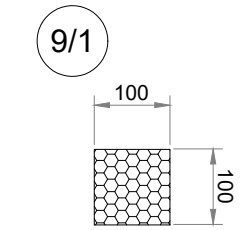
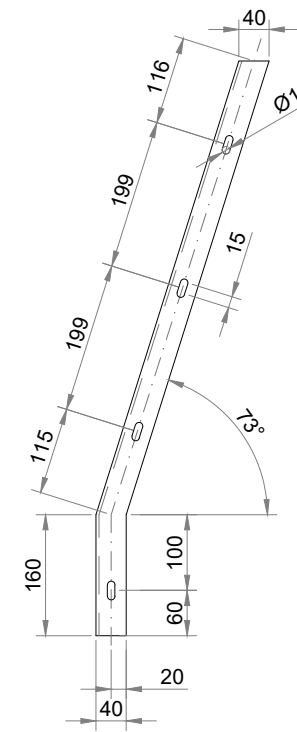
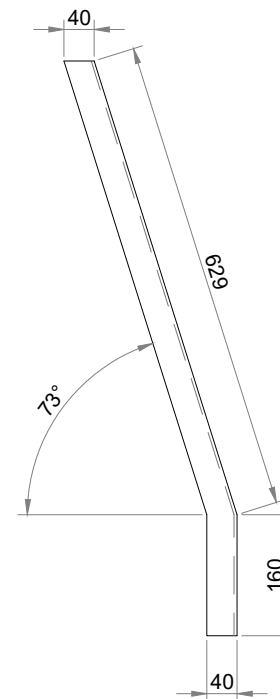
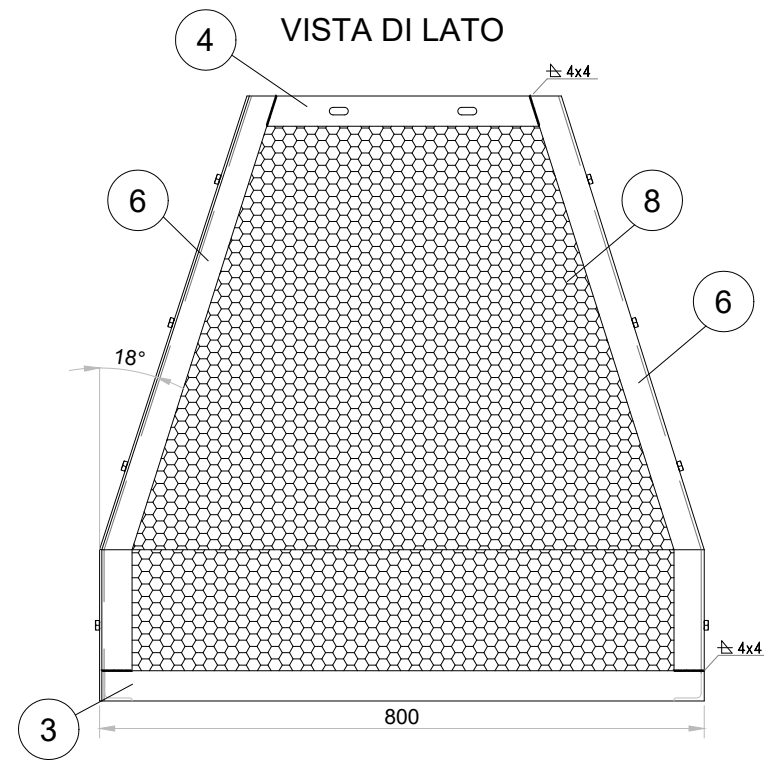
TIPO 2 - CARTER PER PALO LSU18 - 20
 DETTAGLI

2/a LSU20



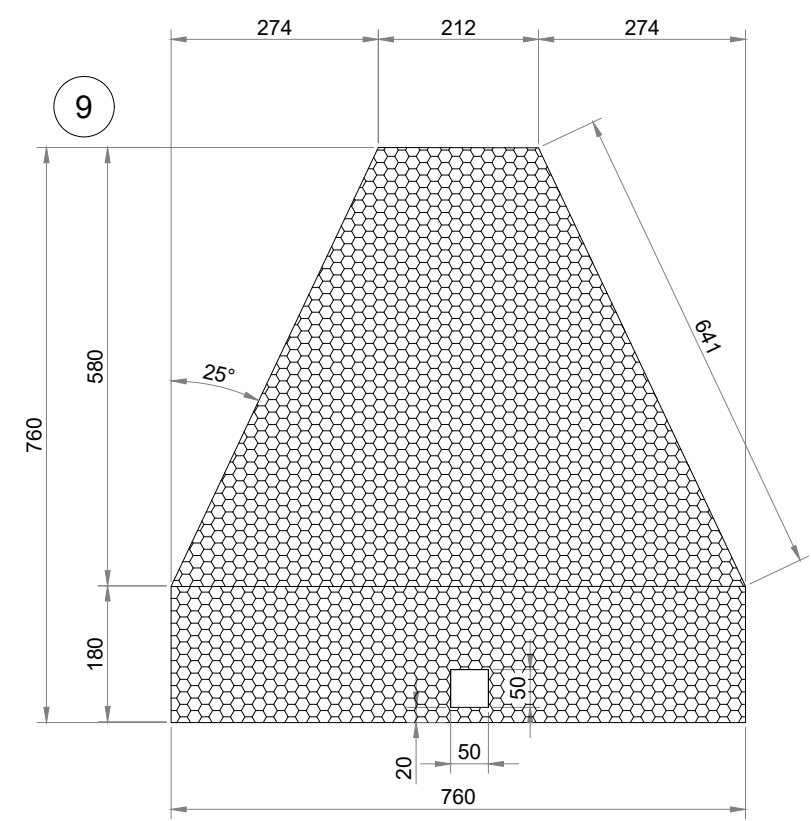
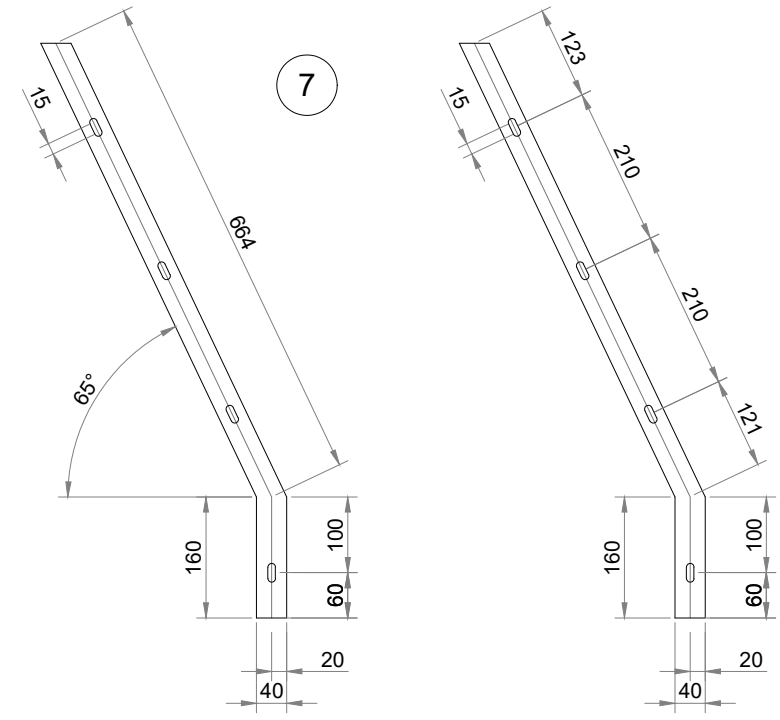
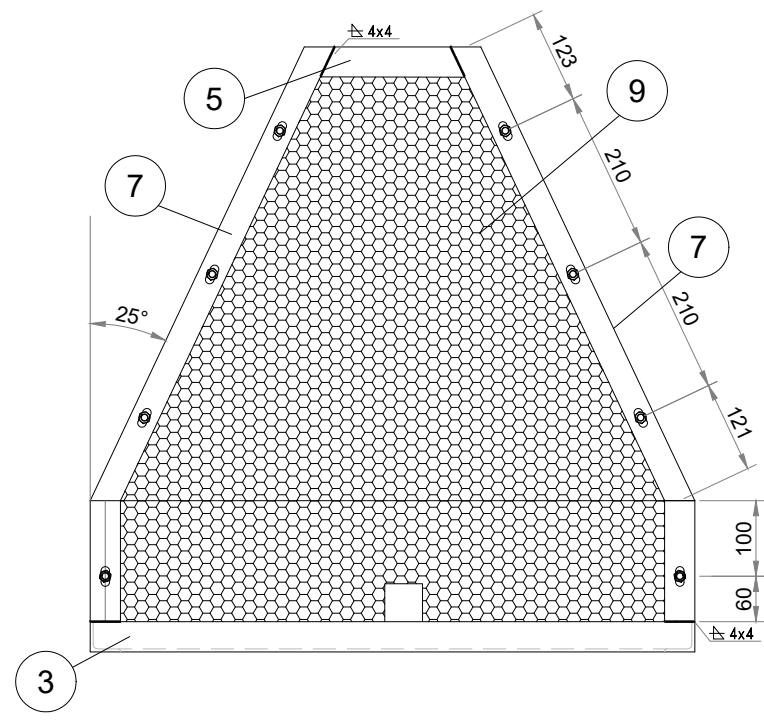
2/b LSU18





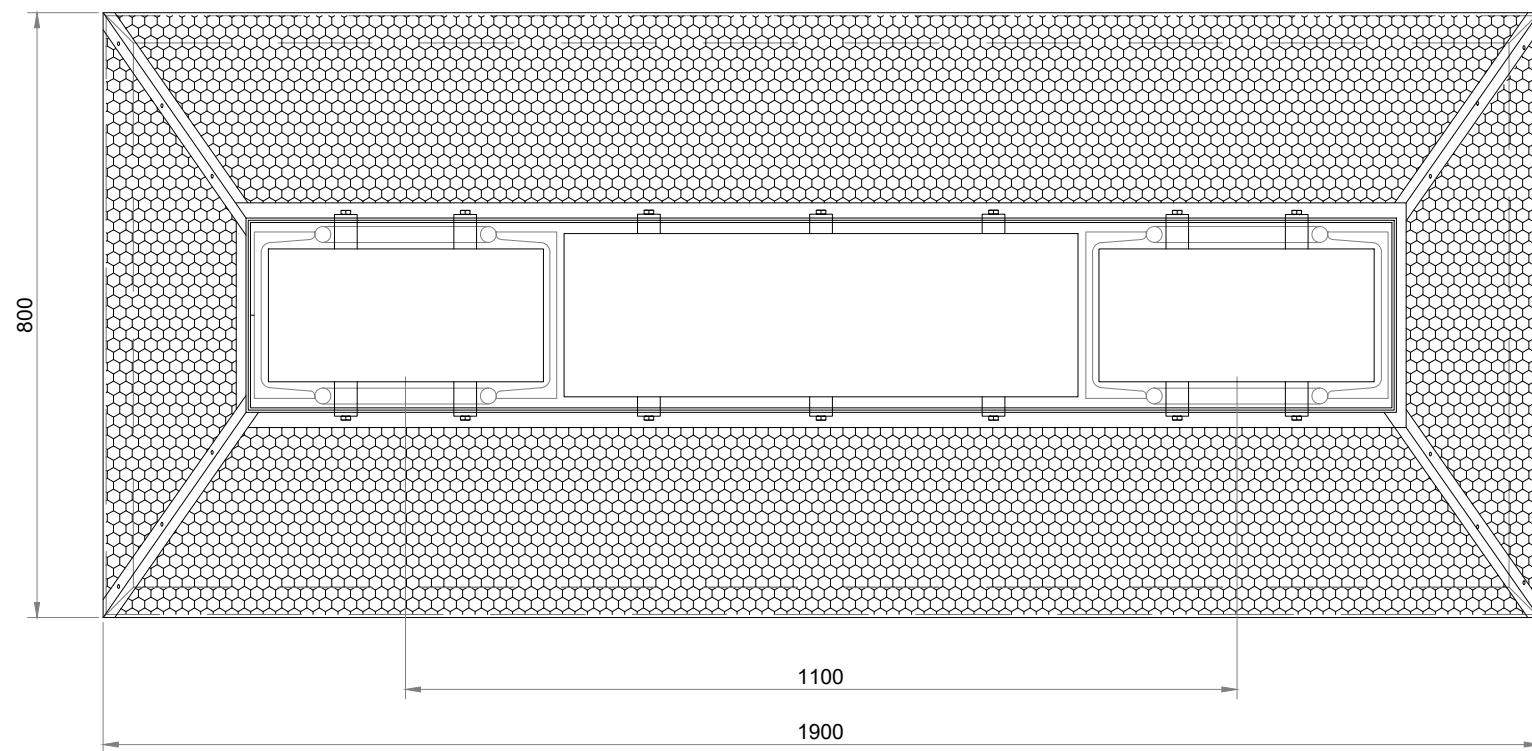
LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE SU PALO LSU 18 TIPO 2					
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1/b	1	Piatto 364x5	134	2,100	ACCIAIO S275 JR UNI EN 10025
2	4	Piatto 30x5 Piegato a 90°	100	0,440	ACCIAIO S355 JR UNI EN 10025
3	4	Profilato L 40x40x4	800	8,015	ACCIAIO S275 JR UNI EN 10025
4	2	Piatto 40x4	361	0,942	ACCIAIO S275 JR UNI EN 10025
5	2	Piatto 40x4	191	0,498	ACCIAIO S275 JR UNI EN 10025
6	4	Lamiera piegata 80x4	790	8,216	ACCIAIO S275 JR UNI EN 10025
7	4	Lamiera 40x4	824	4,258	ACCIAIO S275 JR UNI EN 10025
8	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavata da tagli)	ACCIAIO S275 JR UNI EN 10025
10	24	Vite M8	35	0,422	ACCIAIO CI. 6.8 - UNI 5737
	24	Dado M8	-	0,127	ACCIAIO CLASSE 6 - UNI 3740
	24	Rondella grower M8	-	0,054	ACCIAIO - UNI 1751
Totale Kg				49,840	

VISTA DI FRONTE

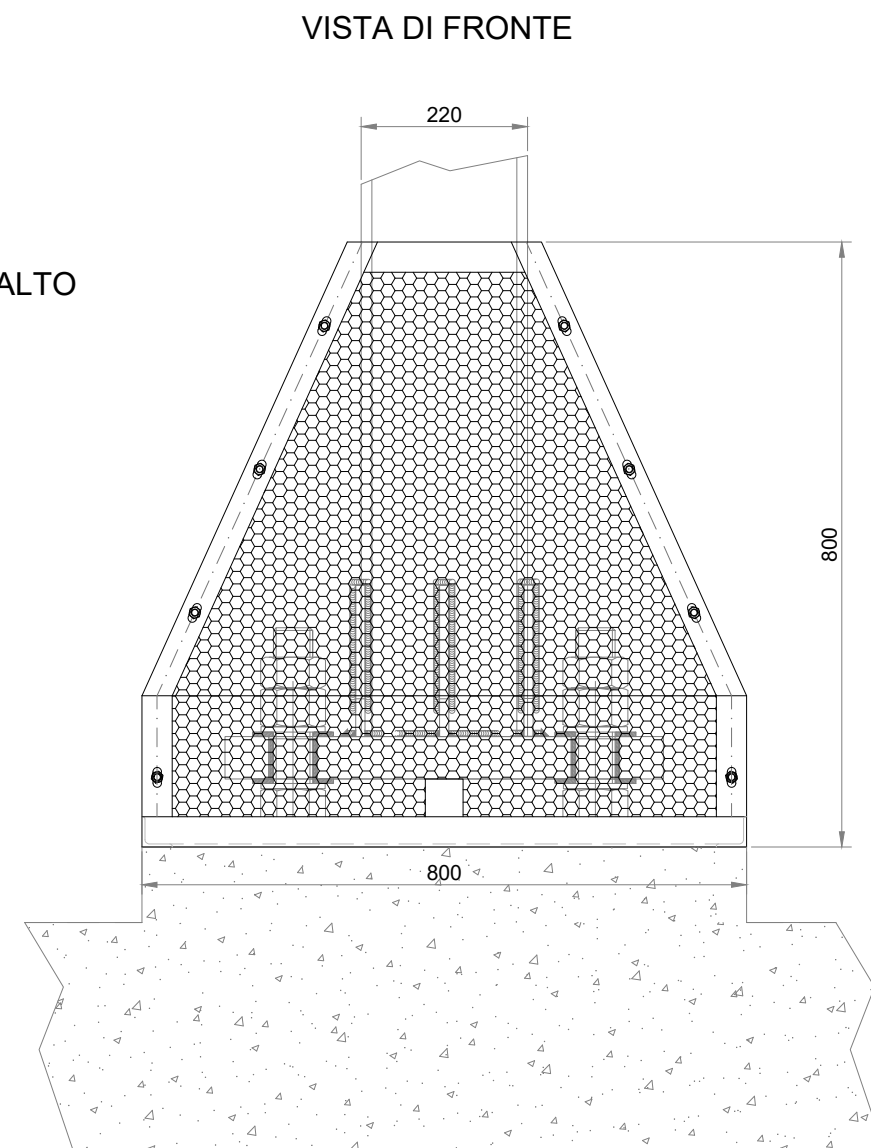


LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE SU PALO LSU 20 TIPO 2

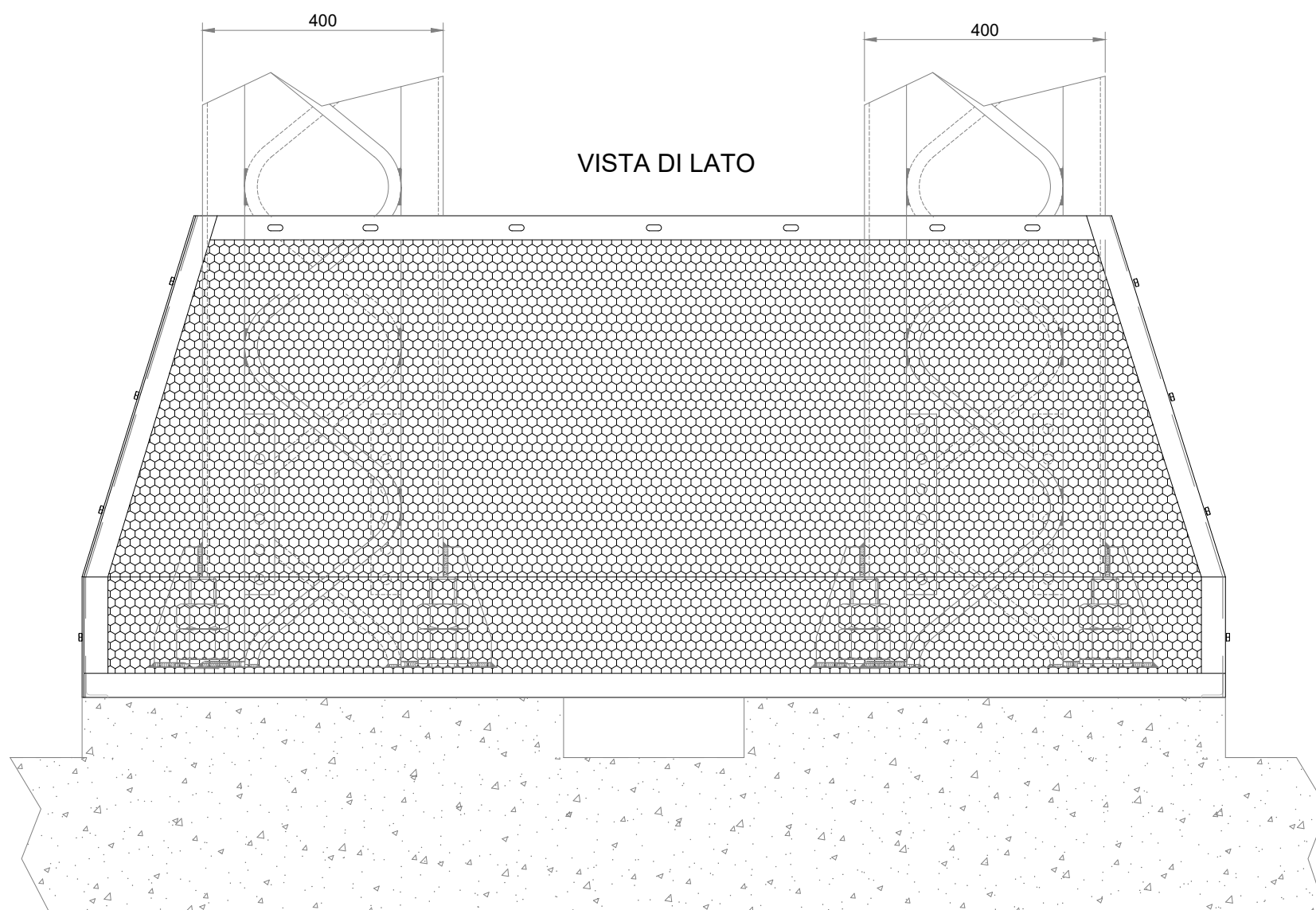
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1/a	1	Piatto 364x5	153	2,660	ACCIAIO S275 JR UNI EN 10025
2	4	Piatto 30x5 Piegato a 90°	90	0,440	ACCIAIO S355 JR UNI EN 10025
3	4	Profilato L 40x40x4	800	8,015	ACCIAIO S275 JR UNI EN 10025
4	2	Piatto 40x4	361	0,942	ACCIAIO S275 JR UNI EN 10025
5	2	Piatto 40x4	191	0,498	ACCIAIO S275 JR UNI EN 10025
6	4	Lamiera piegata 80x4	790	8,216	ACCIAIO S275 JR UNI EN 10025
7	4	Lamiera 40x4	824	4,258	ACCIAIO S275 JR UNI EN 10025
8	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
9/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavata da tagli)	ACCIAIO S275 JR UNI EN 10025
10	20	Vite M8	35	0,321	ACCIAIO CI. 6.8 - UNI 5737
	20	Dado M8	-	0,105	ACCIAIO CLASSE 6 - UNI 3740
	20	Rondella M8	-	0,045	ACCIAIO - UNI 1751
Totale Kg				50,268	



VISTA DALL'ALTO



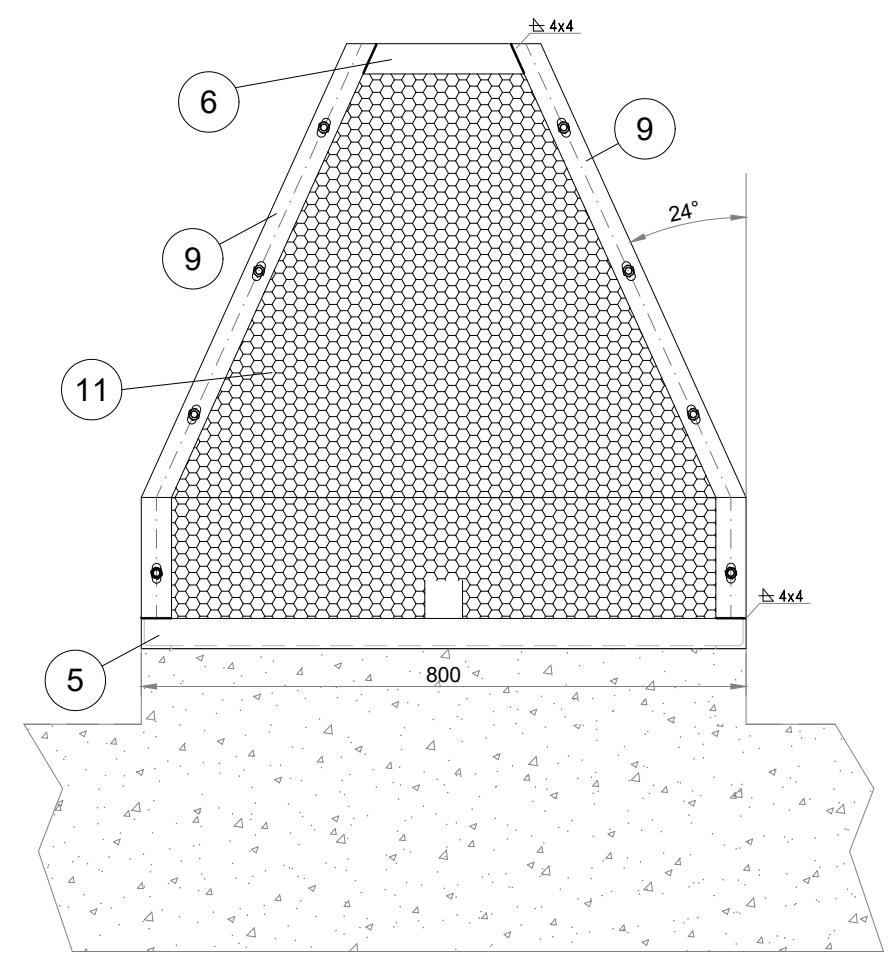
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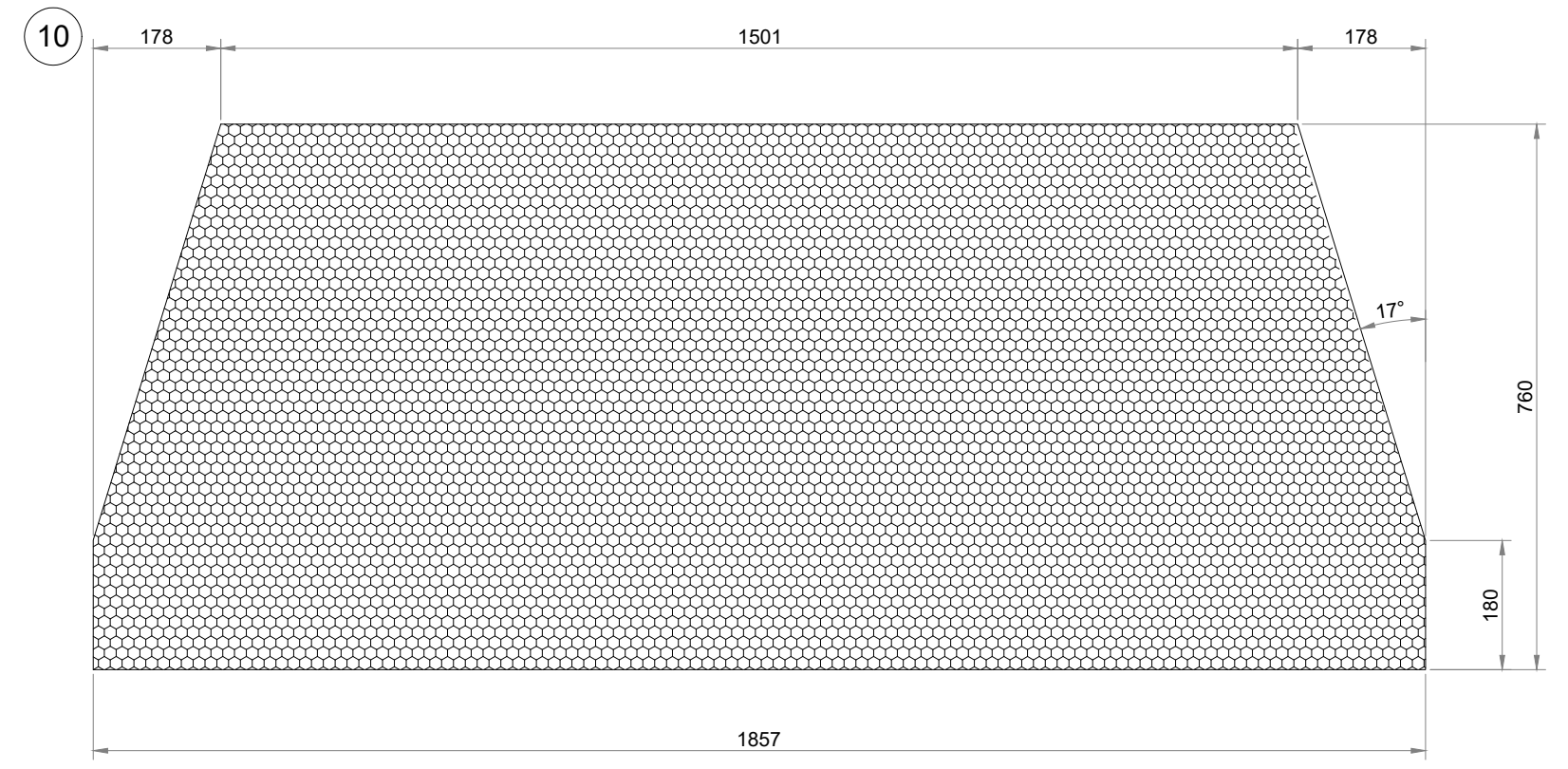
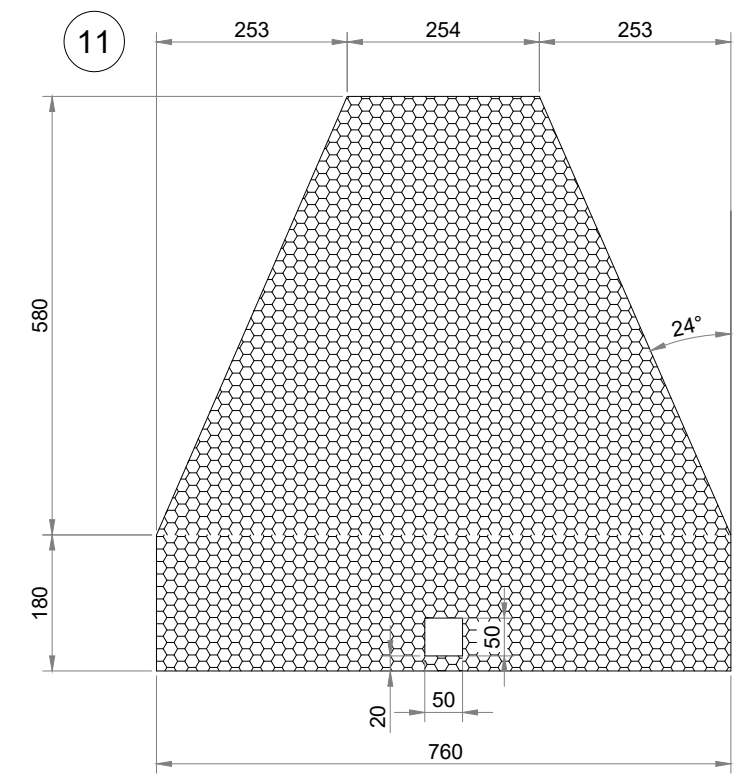
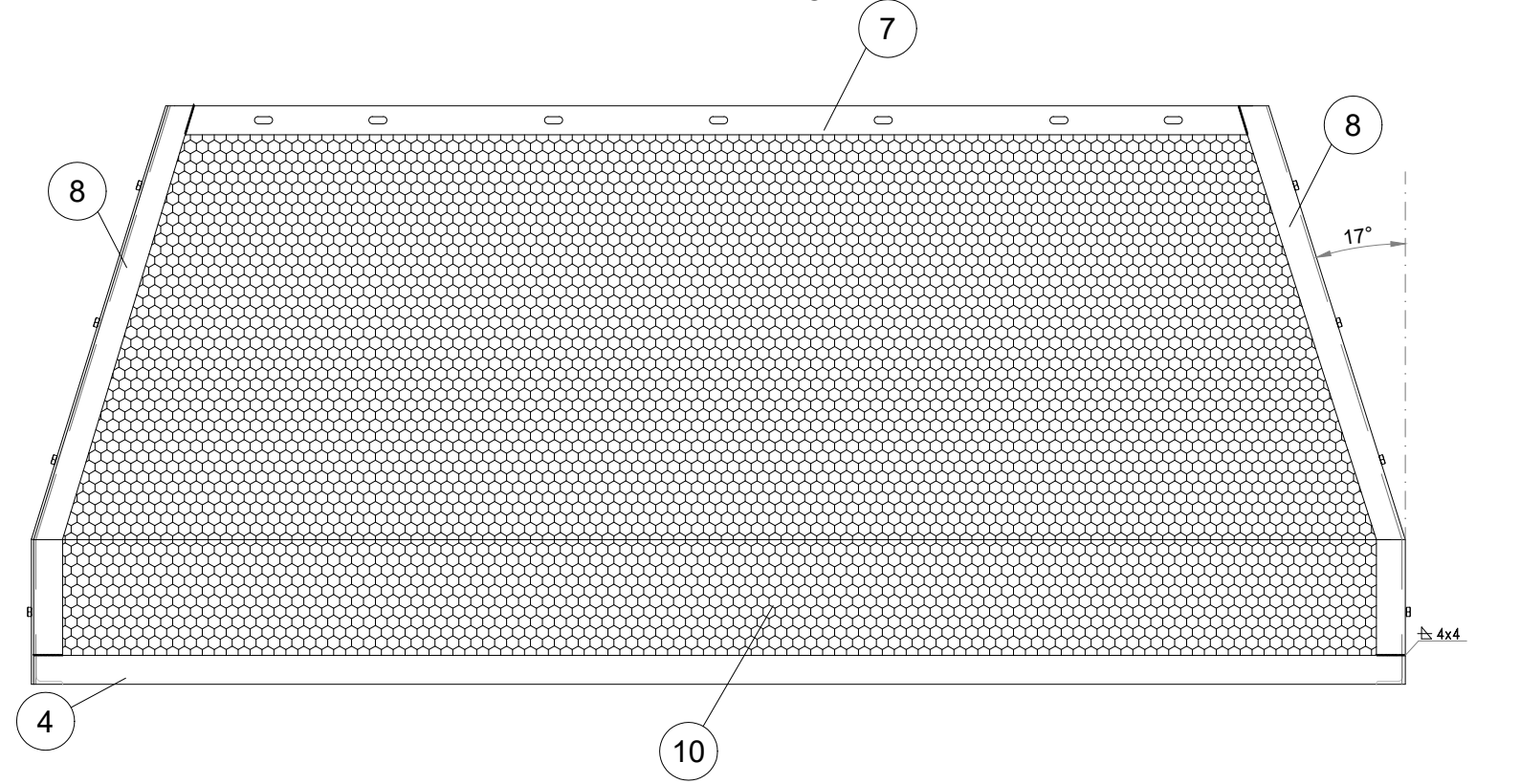
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TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
ASSIEME

VISTA DI FRONTE

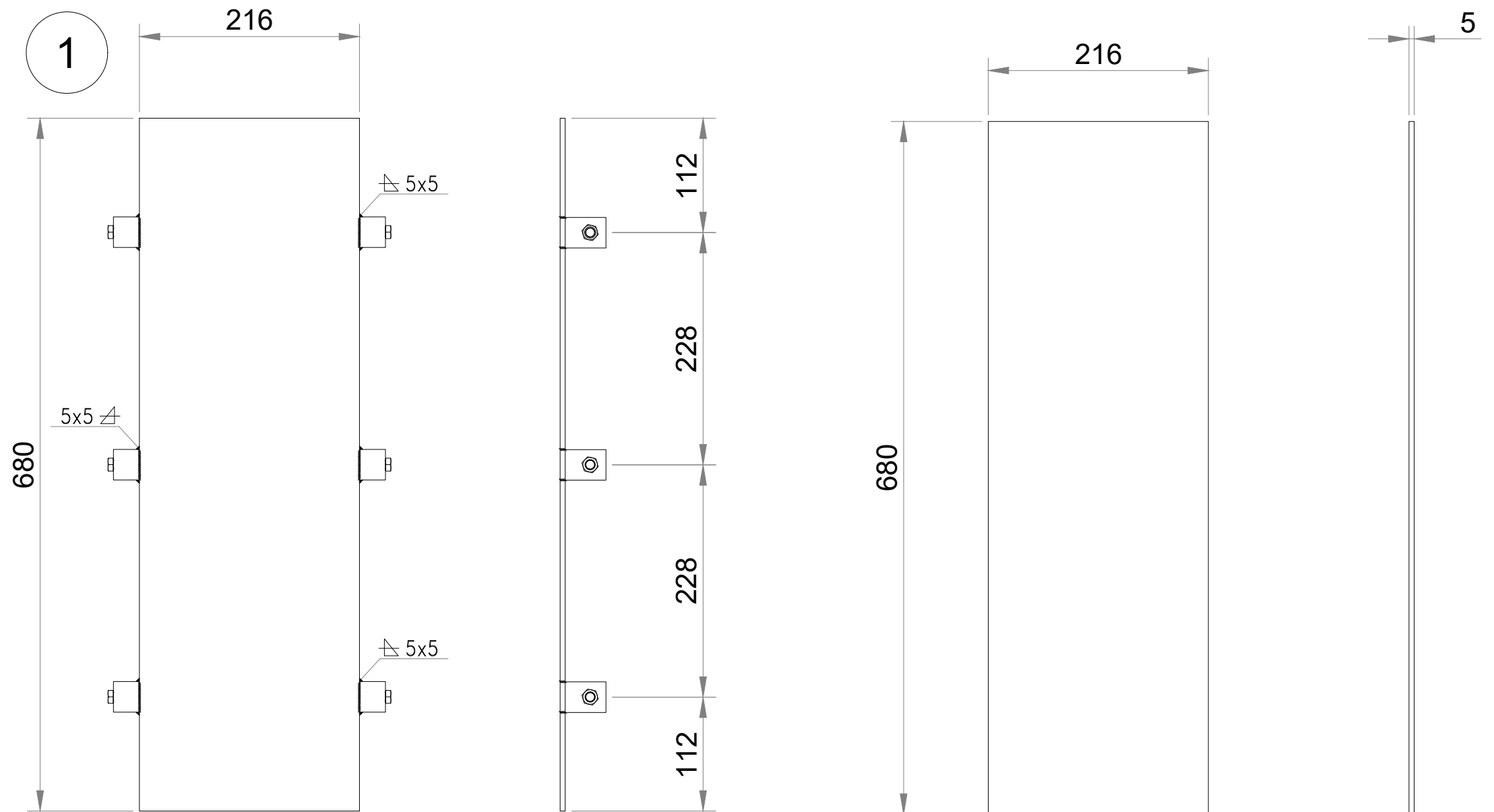


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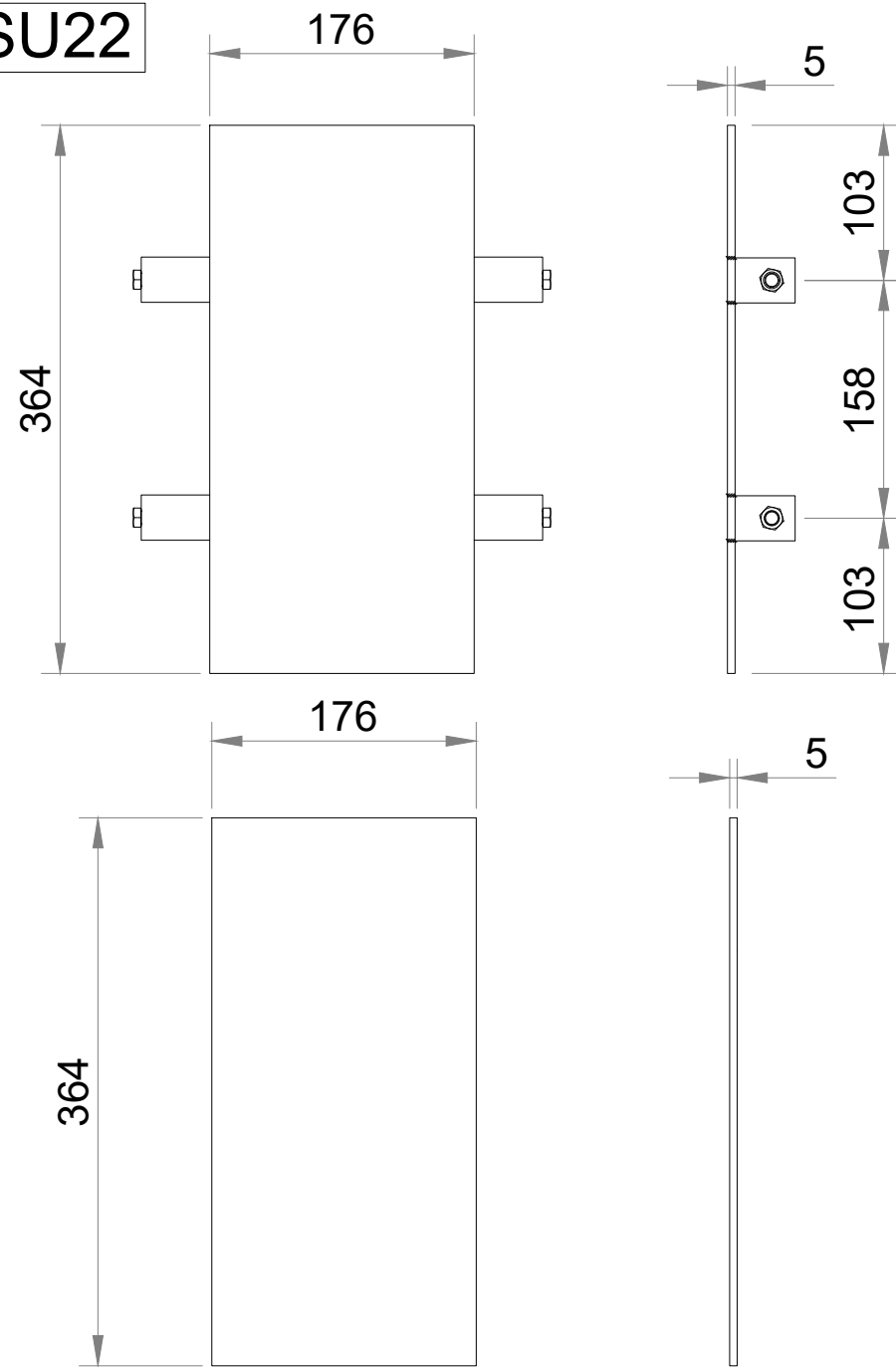
TIPO 3 - CARTER DI PROTEZIONE PER DOPPIO PALO LSFP18 / LSFP22 TIPO 3 DETTAGLI

TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
DETTAGLI

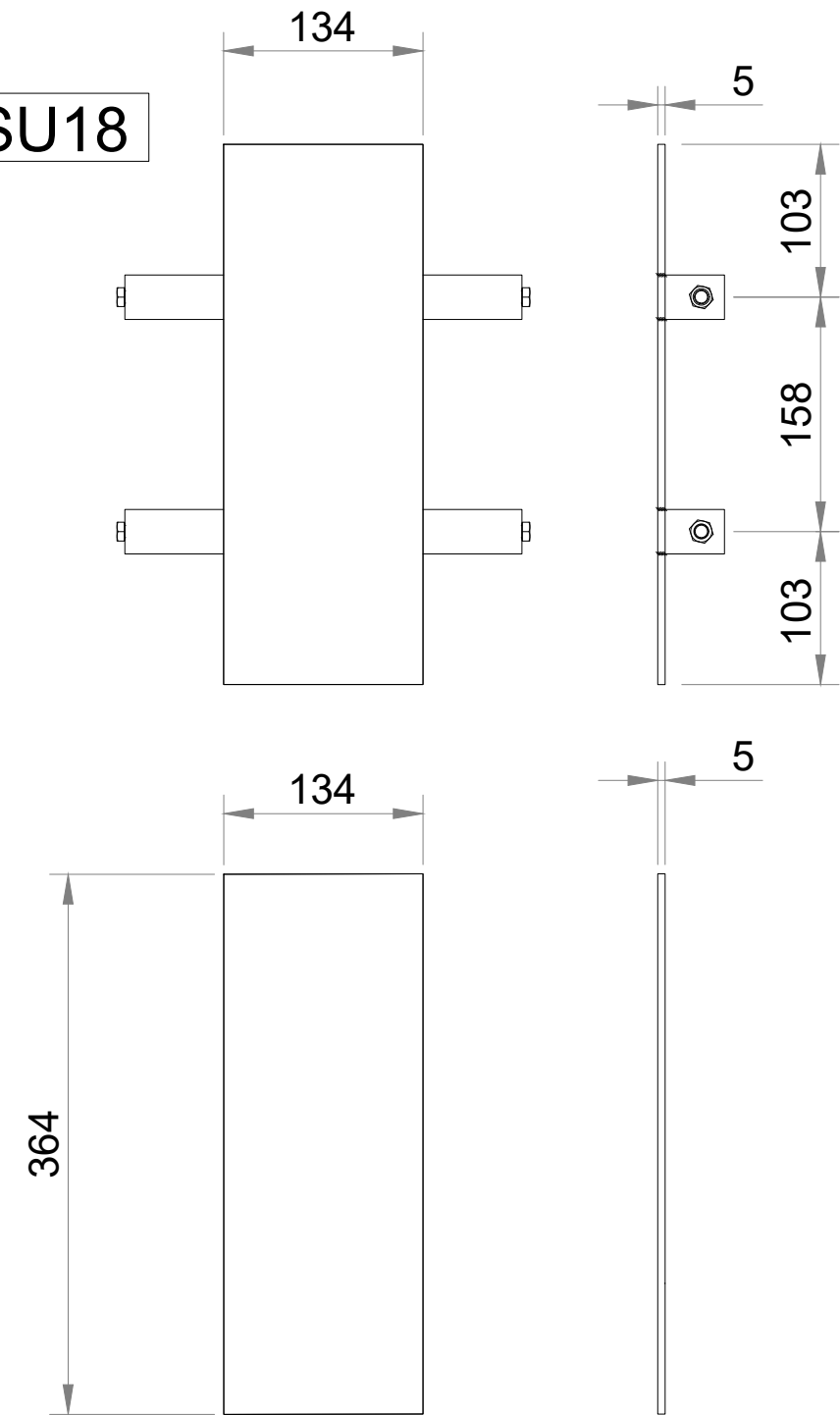


TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
DETTAGLI

2a LSU22

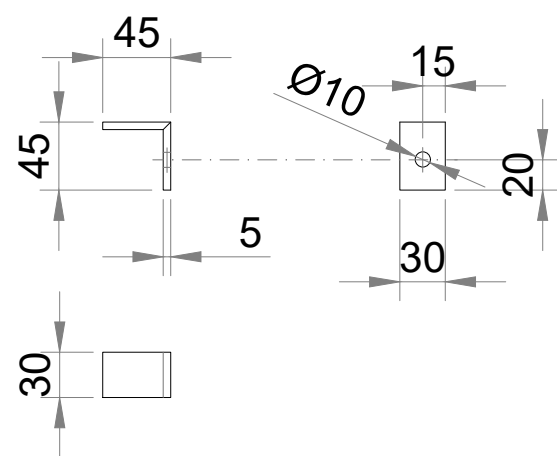


2b LSU18

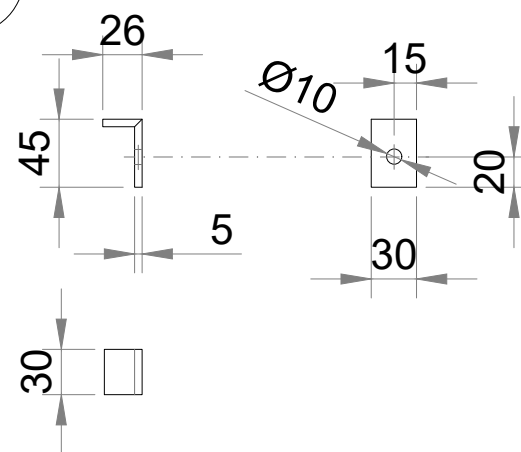


TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
DETTAGLI

3a LSU22

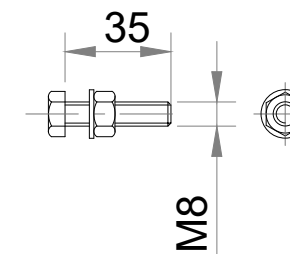


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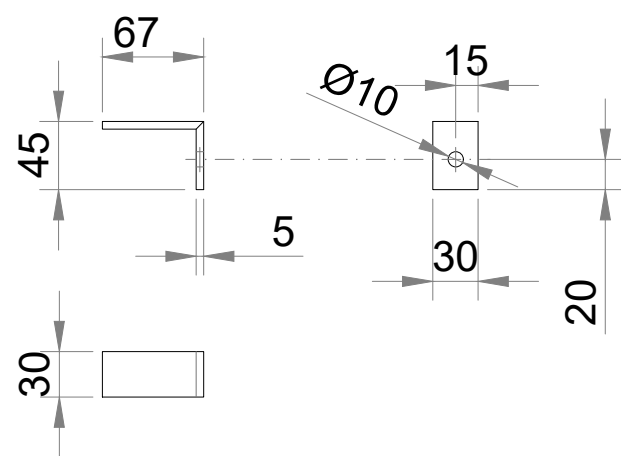


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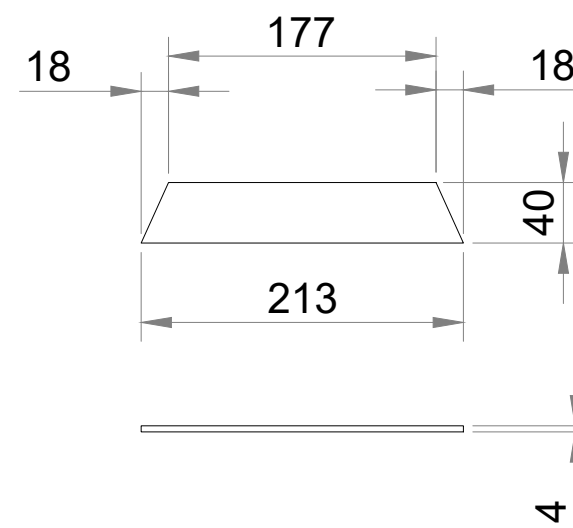
SCALA DOPPIA



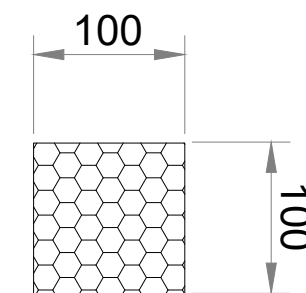
3b LSU18



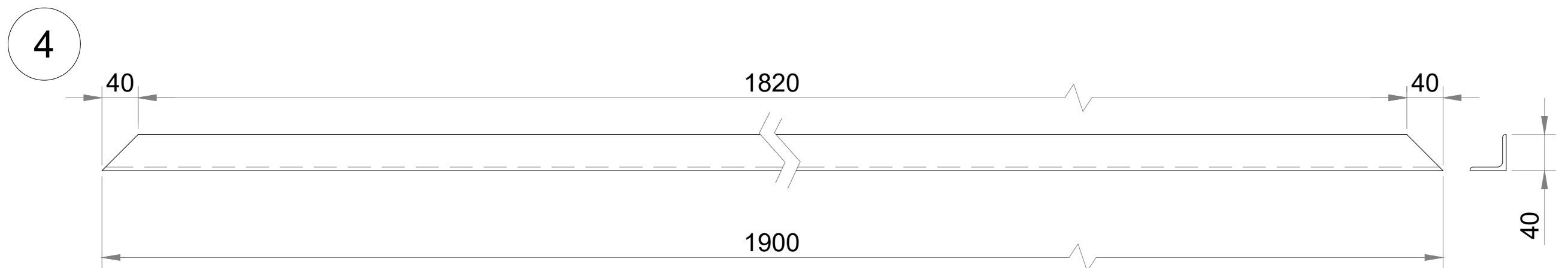
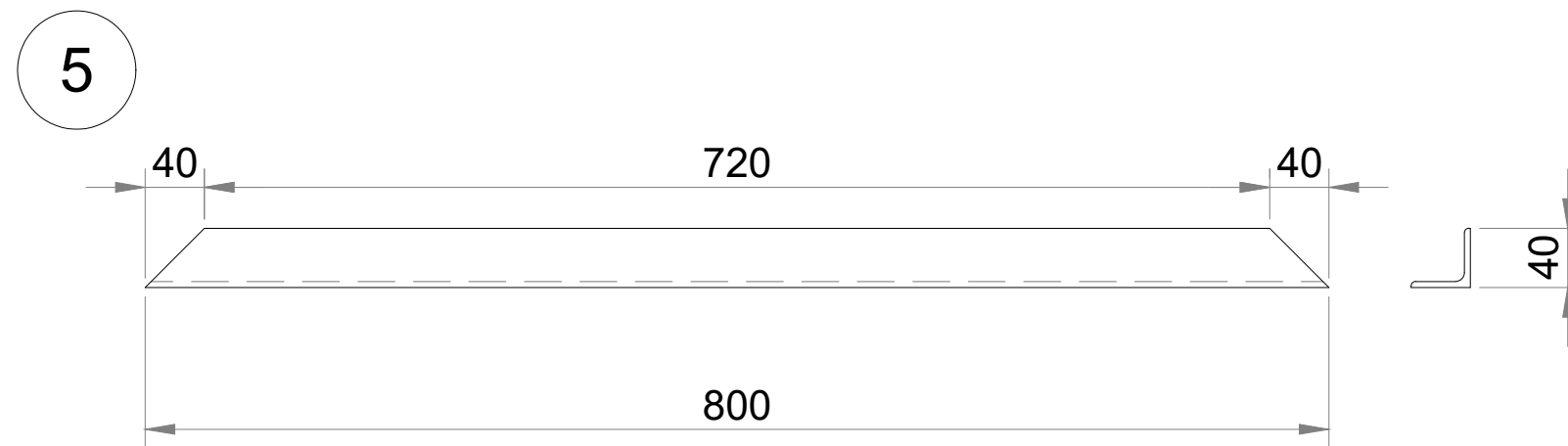
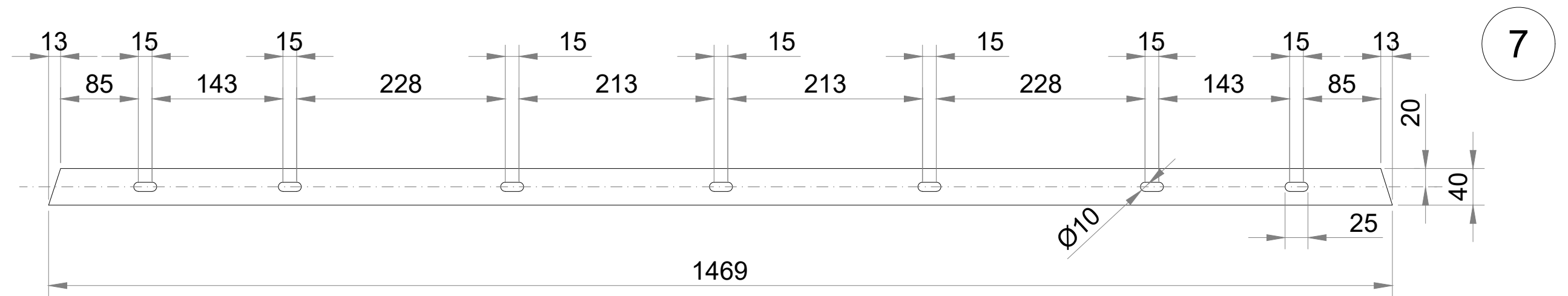
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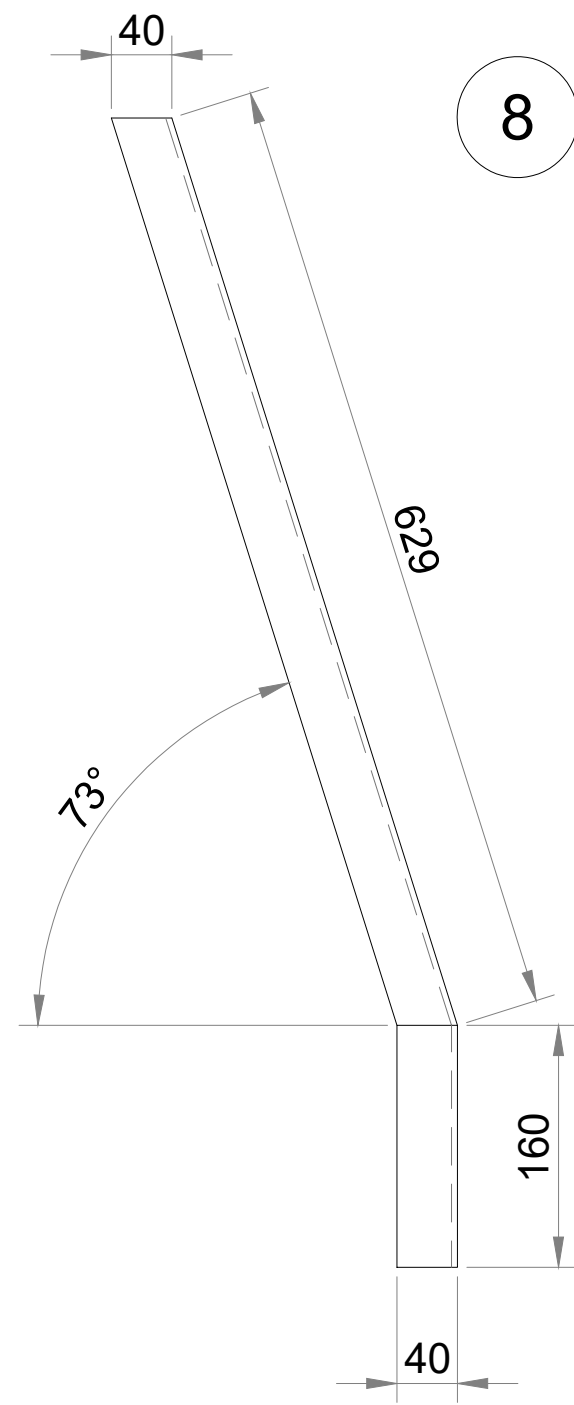


11/1

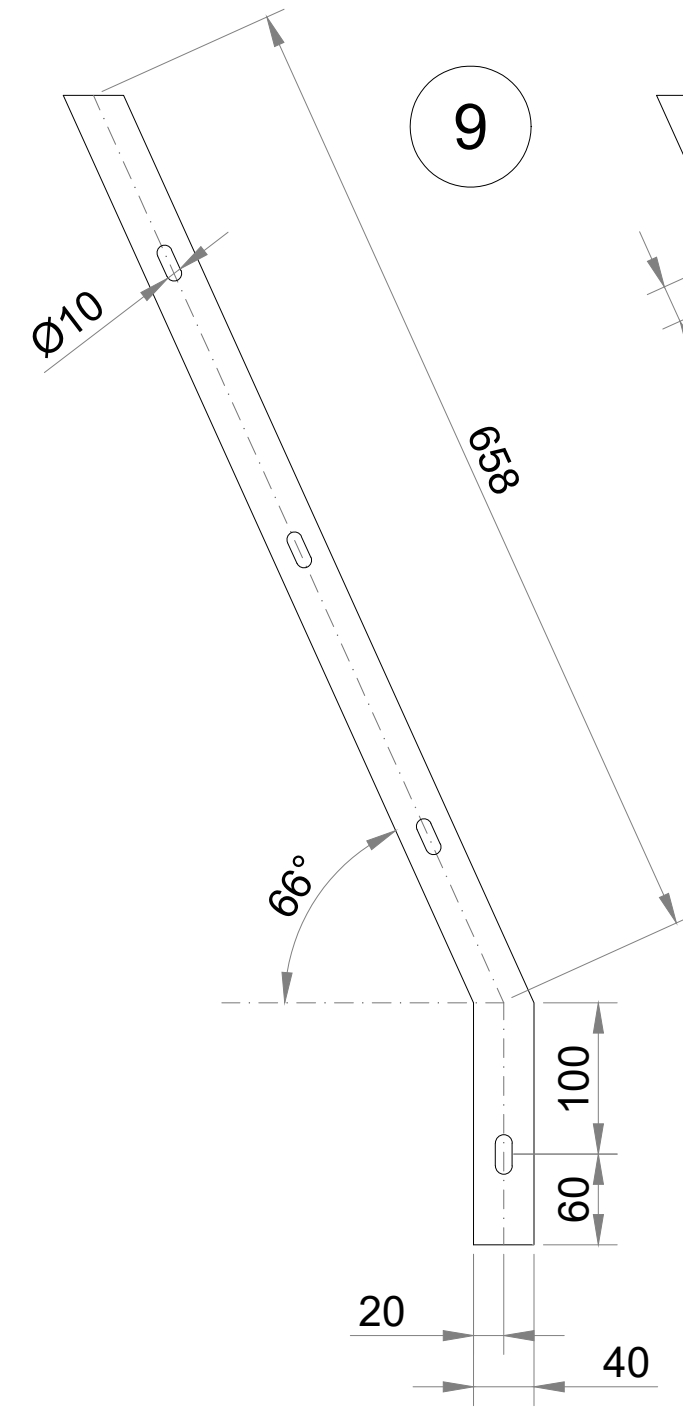
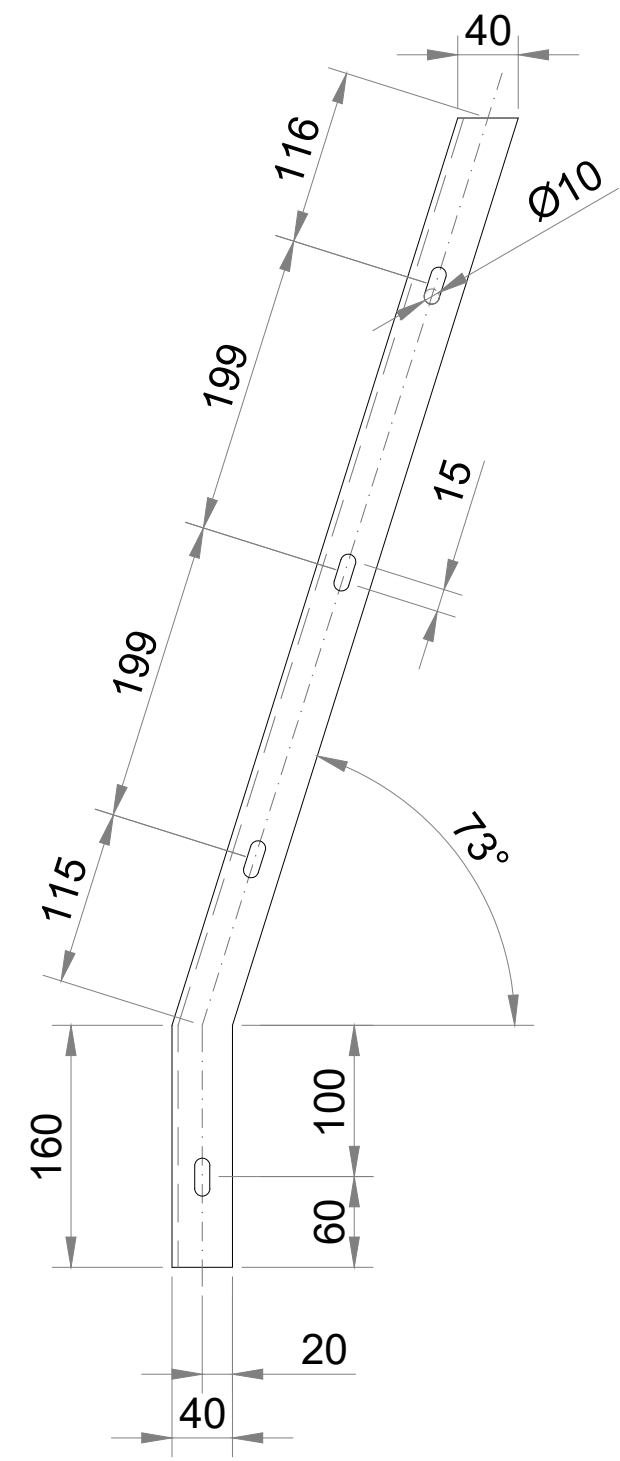


TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
DETTAGLI

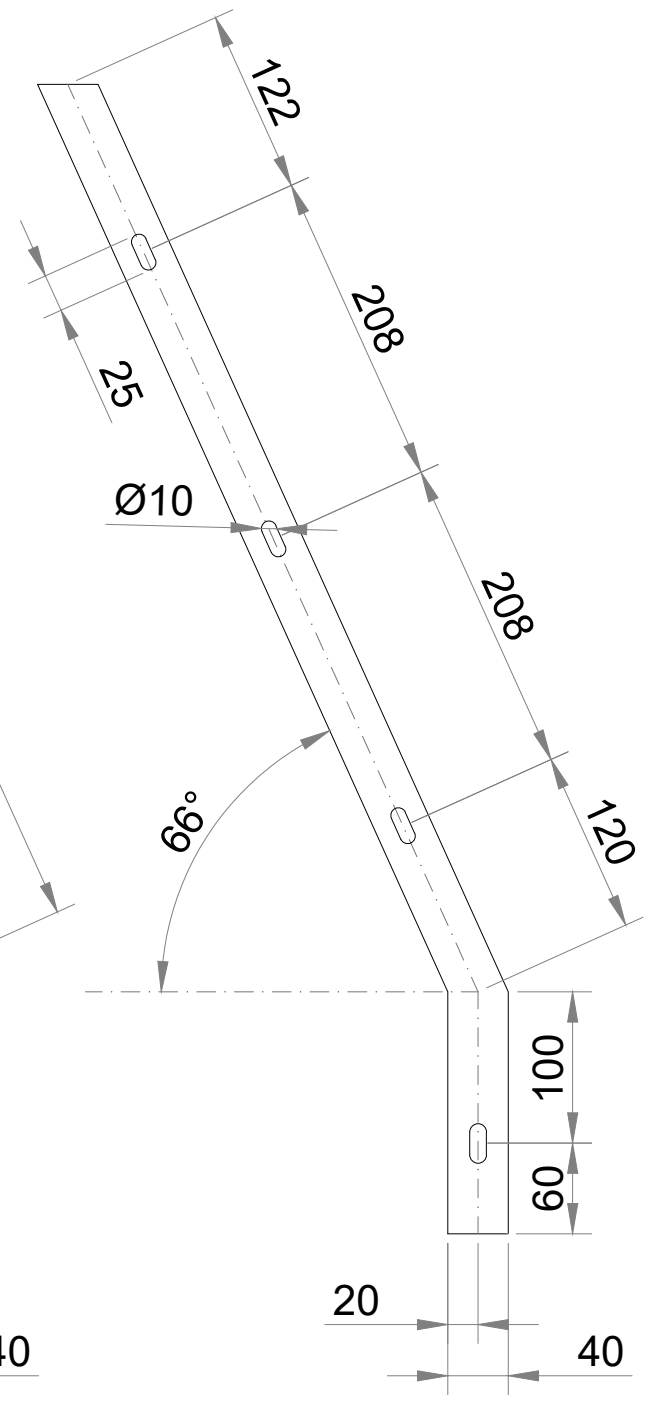




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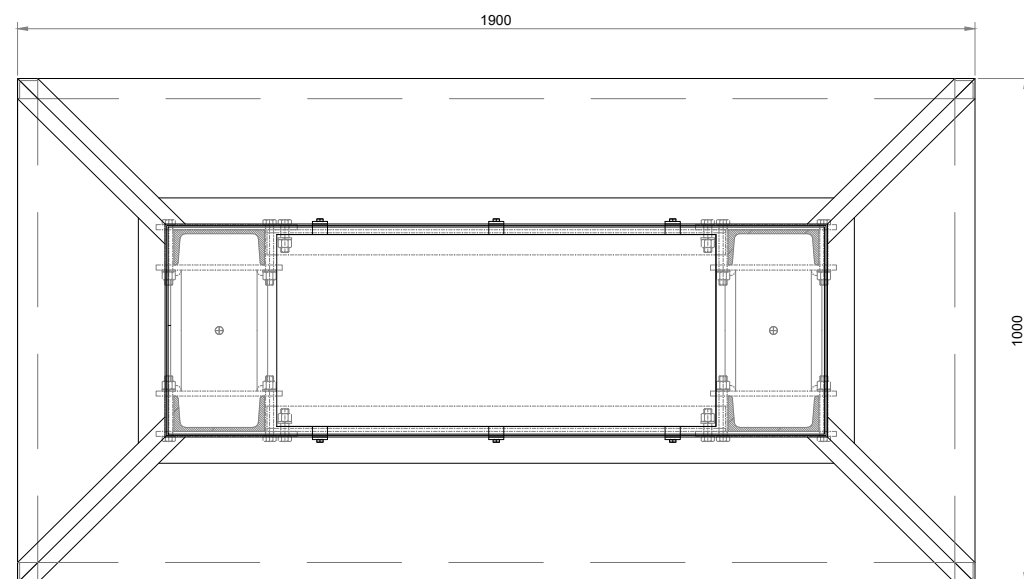
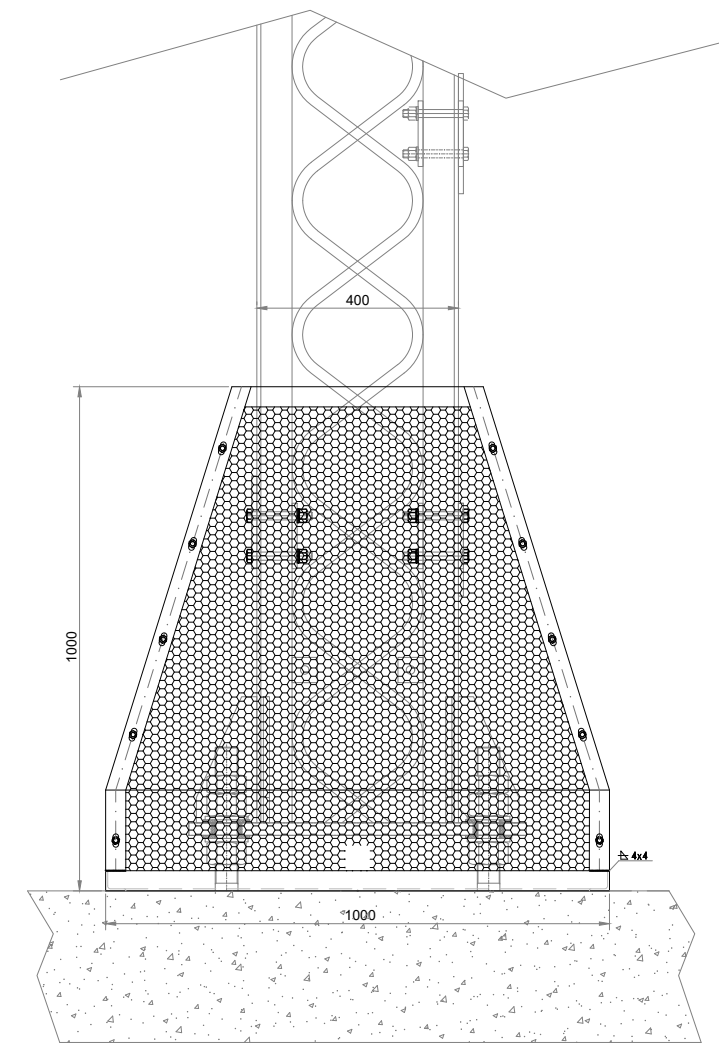
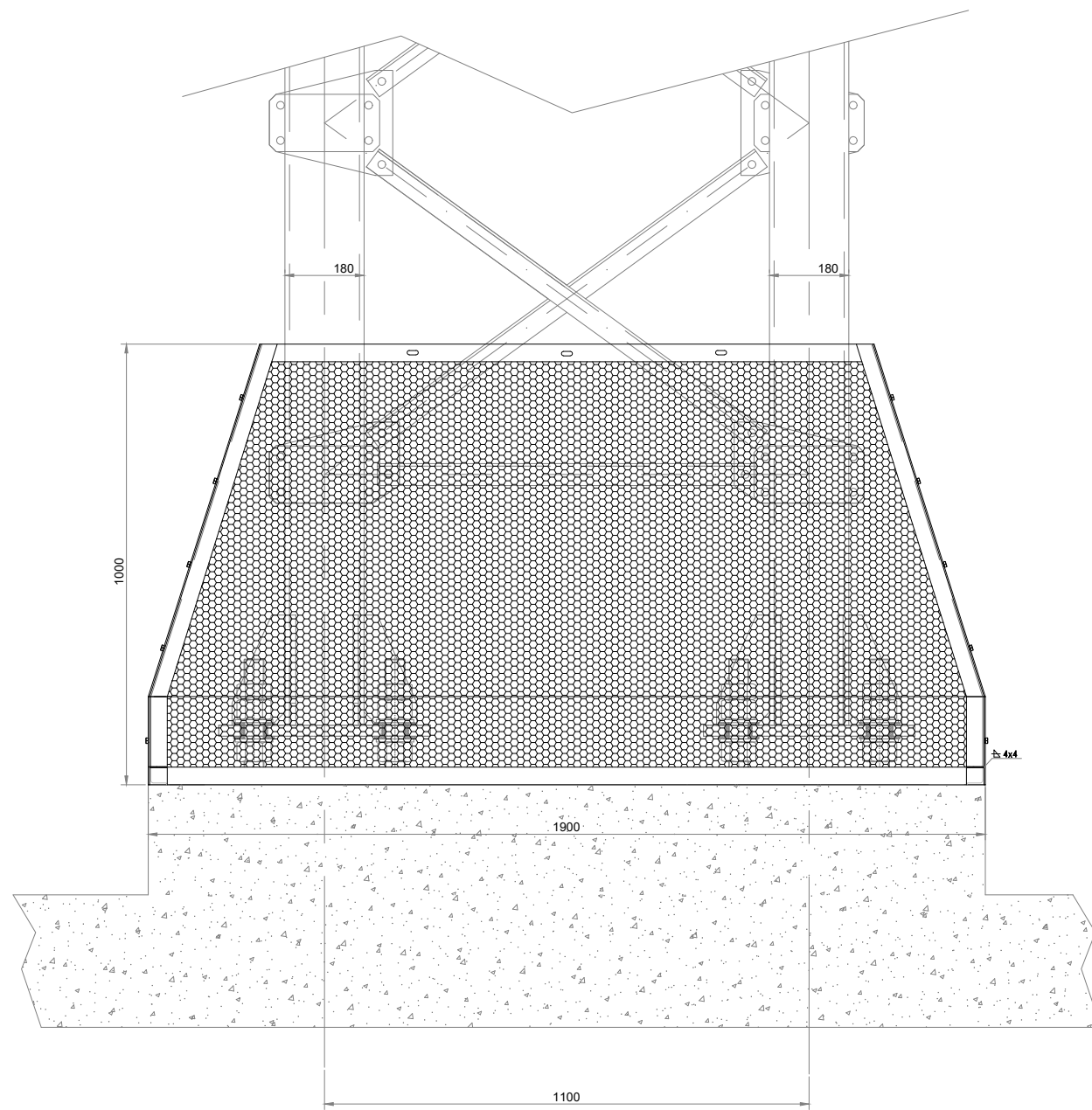
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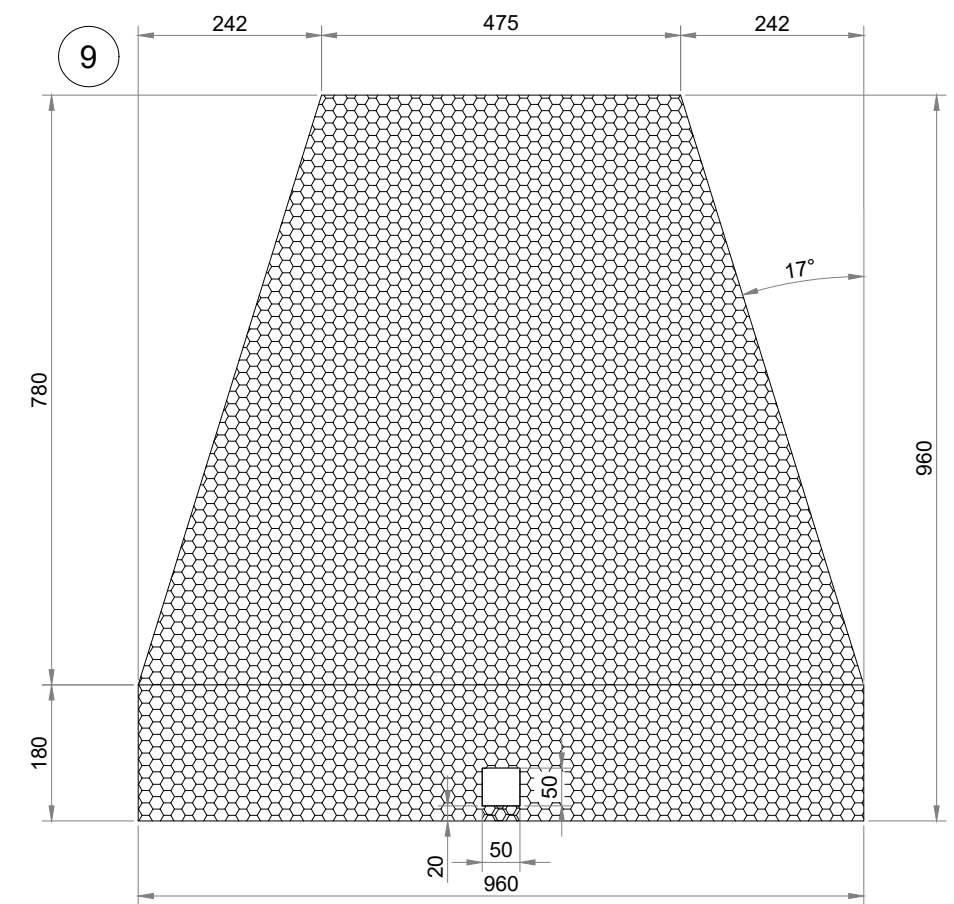
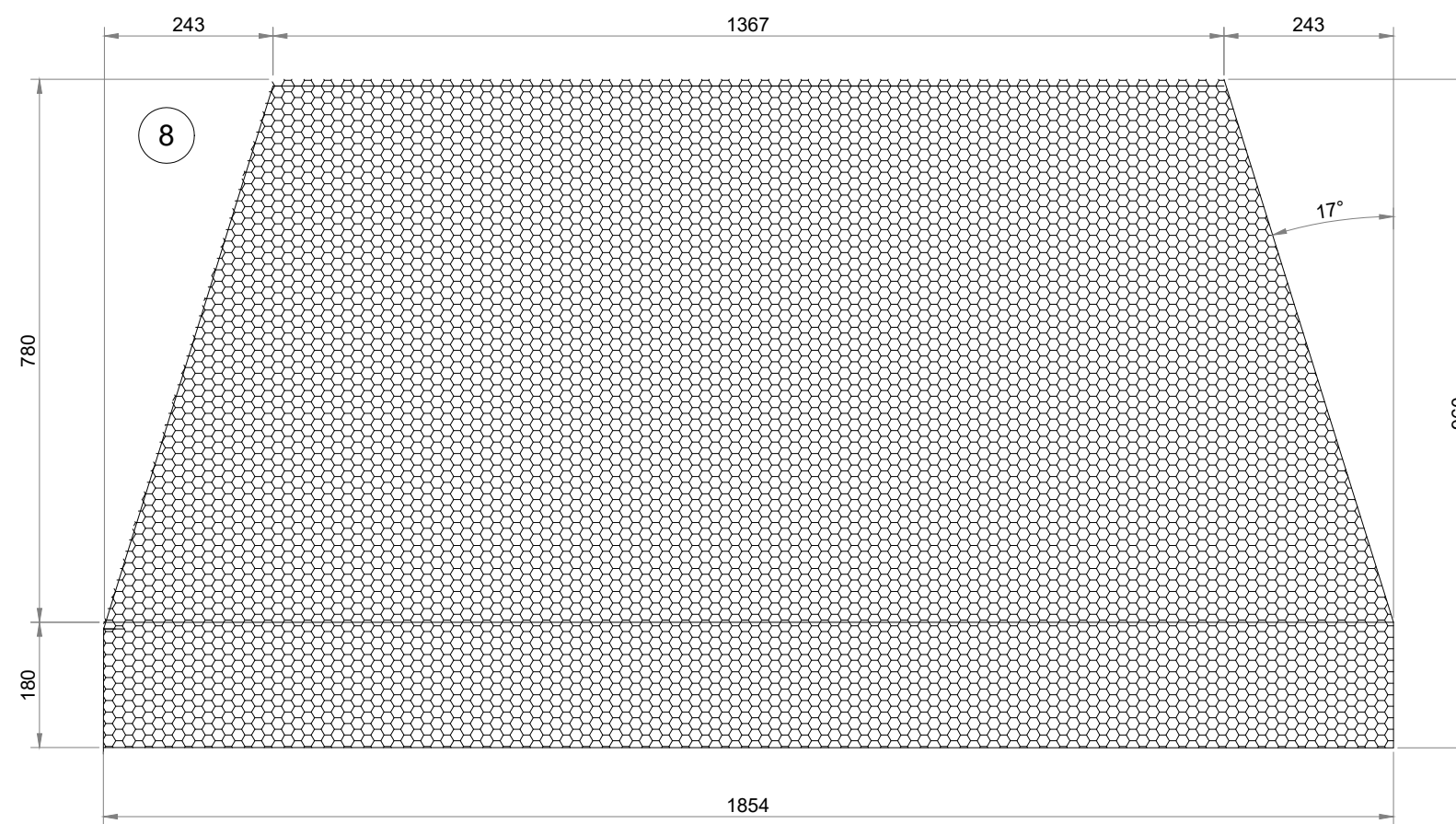
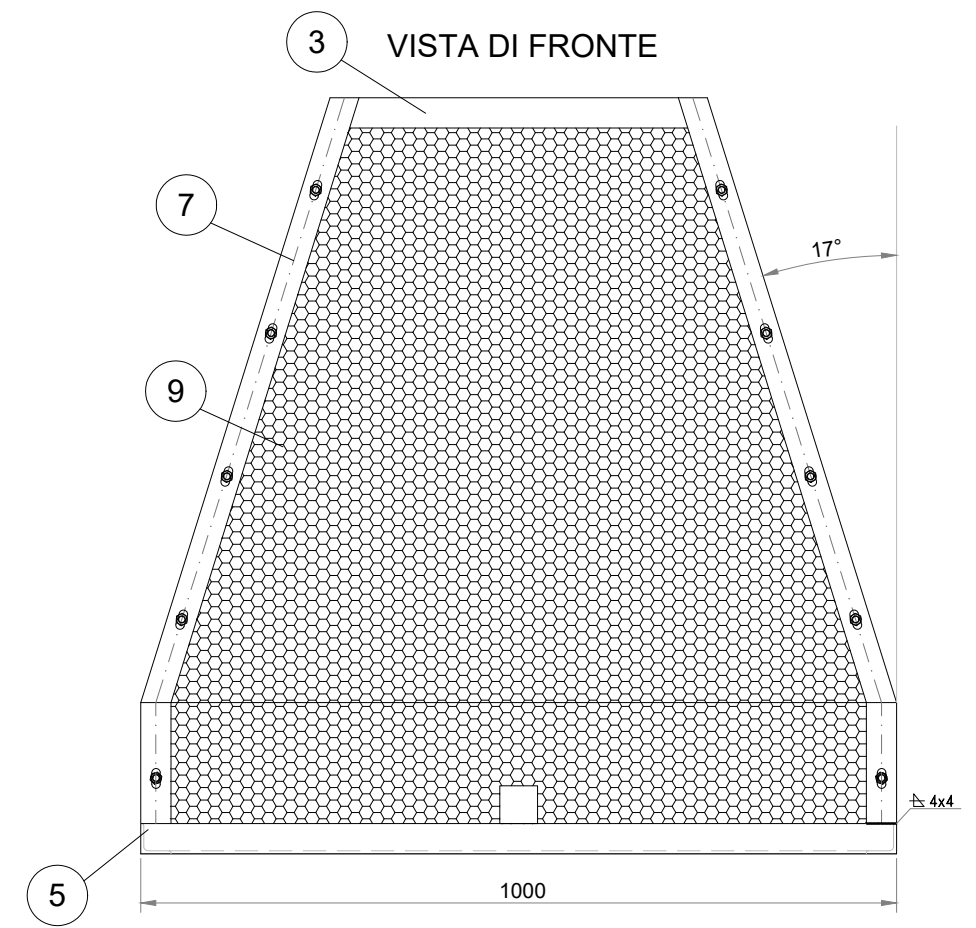
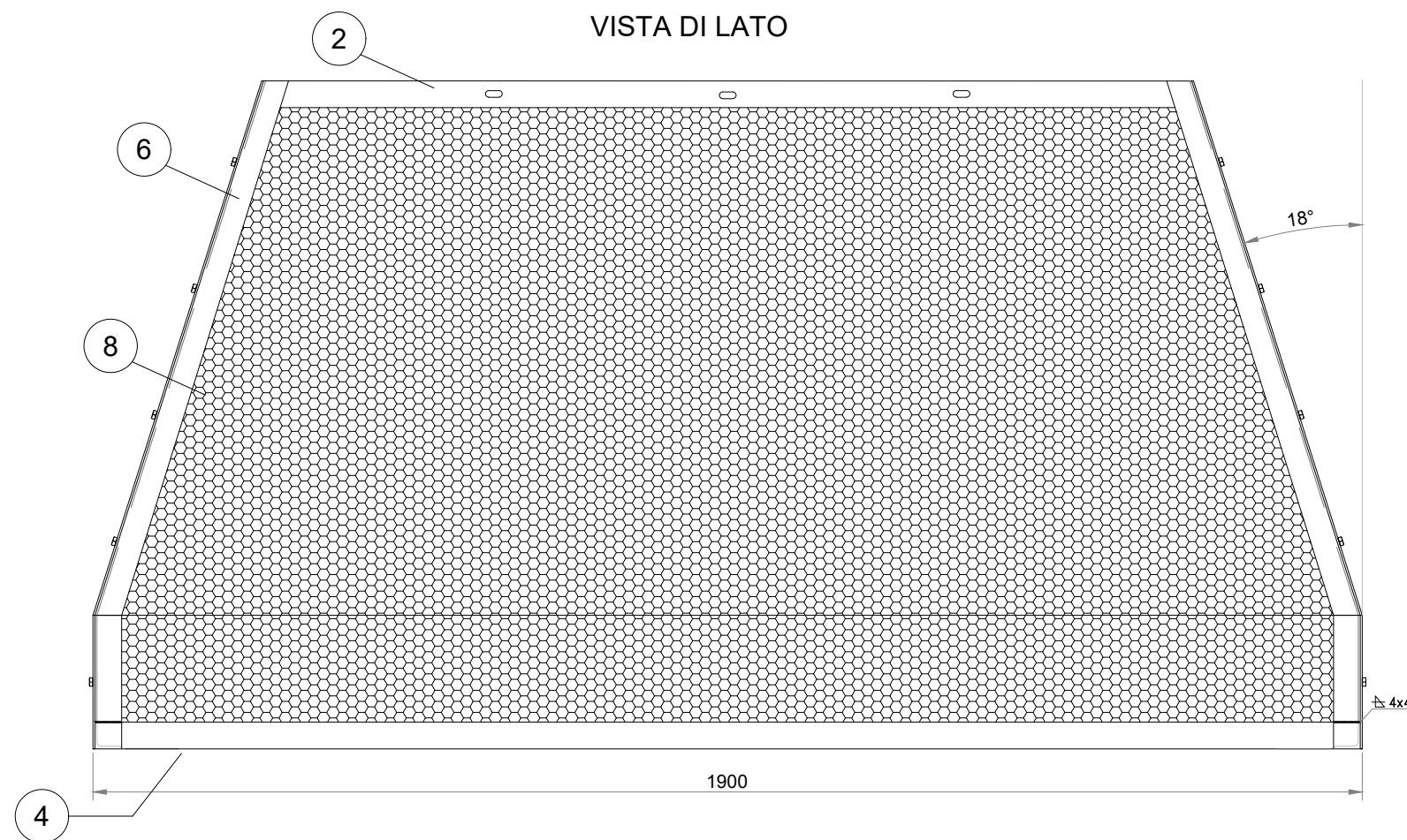
TIPO 3 - CARTER DI PROTEZIONE PER
DOPPIO PALO LSFP18 / LSFP22 TIPO 3
DETTAGLI

LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE SU DOPPIO PALO LSFP22 TIPO 3					
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	1	Piatto 680x5	216	5,967	ACCIAIO S275 JR UNI EN 10025
2/a	2	Piatto 364x5	176	5,206	ACCIAIO S275 JR UNI EN 10025
3	6	Piatto 30x5 Piegato a 90°	71	0,520	ACCIAIO S275 JR UNI EN 10025
3/a	8	Piatto 30x5 Piegato a 90°	90	1,539	ACCIAIO S275 JR UNI EN 10025
4	2	Profilato L 40x40x4	1900	9,518	ACCIAIO S355 JR UNI EN 10025
5	2	Profilato L 40x40x4	800	4,008	ACCIAIO S275 JR UNI EN 10025
6	2	Piatto 40x4	213	0,556	ACCIAIO S275 JR UNI EN 10025
7	2	Piatto 40x4	1469	3,831	ACCIAIO S275 JR UNI EN 10025
8	4	Lamiera piegata 80x4	790	8,216	ACCIAIO S275 JR UNI EN 10025
9	4	Lamiera 40x4	828	4,253	ACCIAIO S275 JR UNI EN 10025
10	2	Lamiera forata tondi R7 T10 760x3	1857	30,260	ACCIAIO S275 JR UNI EN 10025
11	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
11/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavato da tagli)	ACCIAIO S275 JR UNI EN 10025
12	30	Vite M8	35	0,481	ACCIAIO CI. 6.8 - UNI 5737
	30	Dado M8	-	0,159	ACCIAIO CLASSE 6 - UNI 3740
	30	Rondella M8	-	0,067	ACCIAIO - UNI 1751
Totale Kg				86,965	

LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE SU DOPPIO PALO LSFP18 TIPO 3					
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	1	Piatto 680x5	216	5,967	ACCIAIO S275 JR UNI EN 10025
2/b	2	Piatto 364x5	134	3,962	ACCIAIO S275 JR UNI EN 10025
3	6	Piatto 30x5 Piegato a 90°	71	0,520	ACCIAIO S275 JR UNI EN 10025
3/b	8	Piatto 30x5 Piegato a 90°	112	1,915	ACCIAIO S275 JR UNI EN 10025
4	2	Profilato L 40x40x4	1900	9,518	ACCIAIO S355 JR UNI EN 10025
5	2	Profilato L 40x40x4	800	4,008	ACCIAIO S275 JR UNI EN 10025
6	2	Piatto 40x4	213	0,556	ACCIAIO S275 JR UNI EN 10025
7	2	Piatto 40x4	1469	3,831	ACCIAIO S275 JR UNI EN 10025
8	4	Lamiera piegata 80x4	790	8,216	ACCIAIO S275 JR UNI EN 10025
9	4	Lamiera 40x4	828	4,253	ACCIAIO S275 JR UNI EN 10025
10	2	Lamiera forata tondi R7 T10 760x3	1857	30,260	ACCIAIO S275 JR UNI EN 10025
11	2	Lamiera forata tondi R7 T10 760x3	760	12,384	ACCIAIO S275 JR UNI EN 10025
11/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavato da tagli)	ACCIAIO S275 JR UNI EN 10025
12	30	Vite M8	35	0,481	ACCIAIO CI. 6.8 - UNI 5737
	30	Dado M8	-	0,159	ACCIAIO CLASSE 6 - UNI 3740
	30	Rondella M8	-	0,067	ACCIAIO - UNI 1751
Totale Kg				86,097	

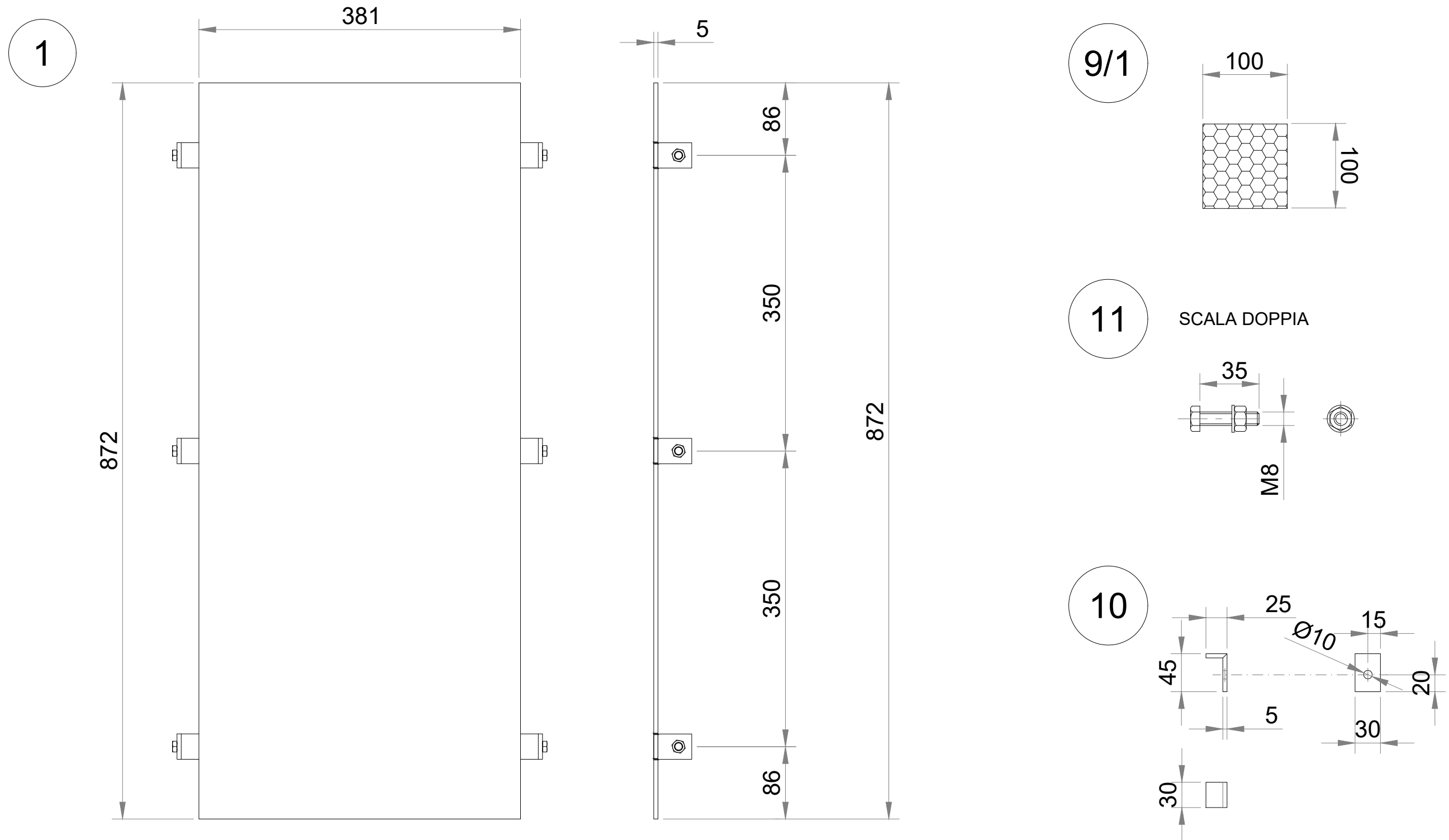


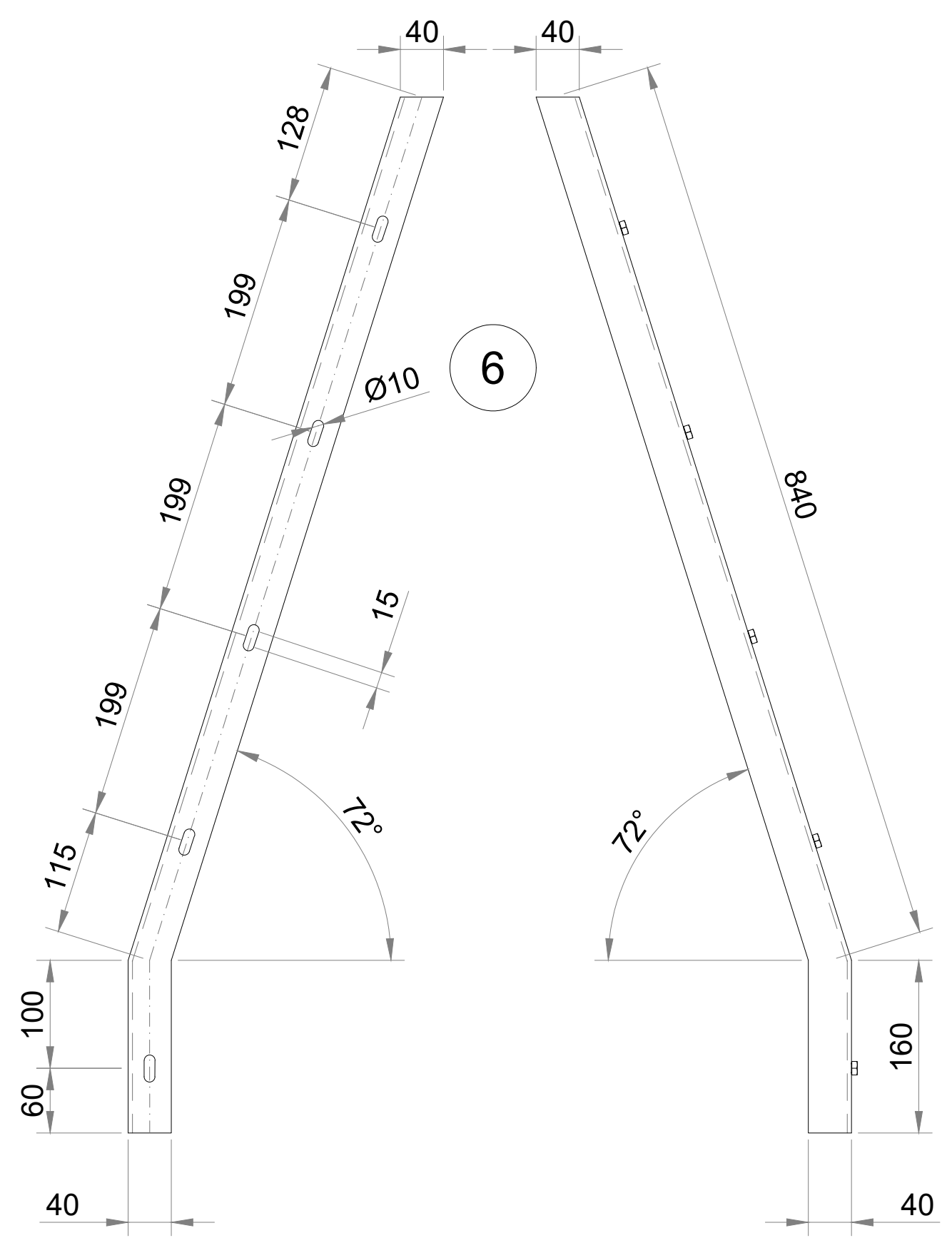
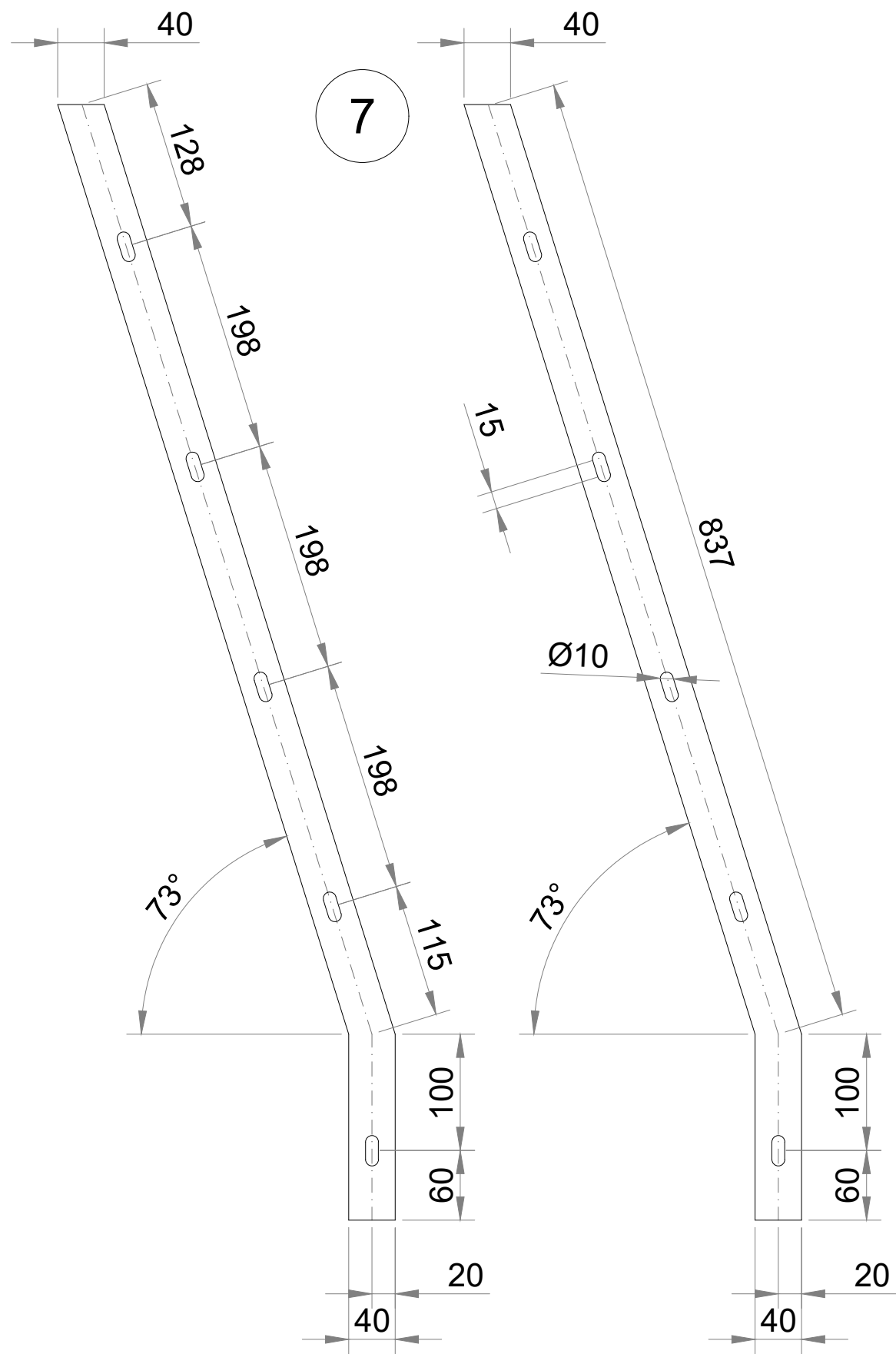
TIPO 4 - CARTER PER DOPPIO PALO
 TRALICCIATO LSU18
 ASSIEME



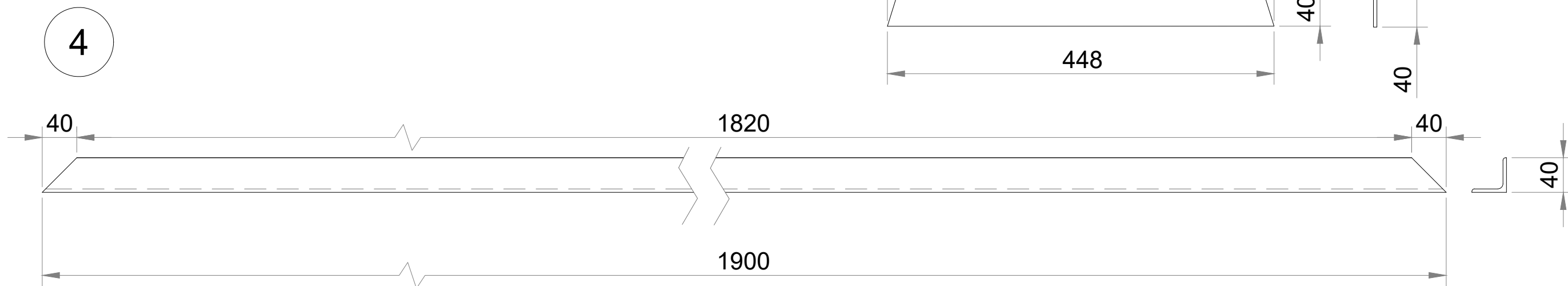
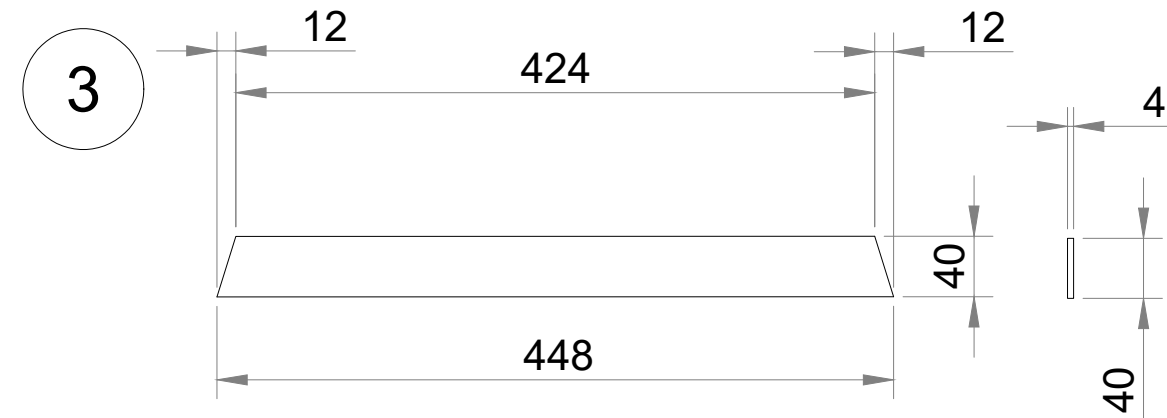
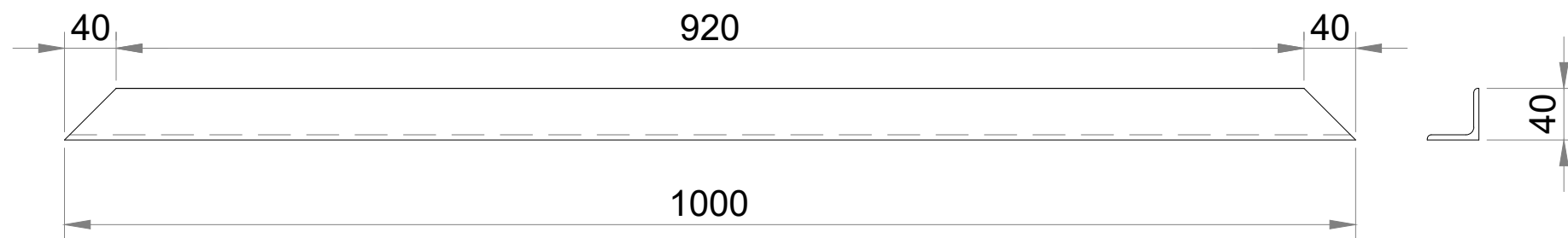
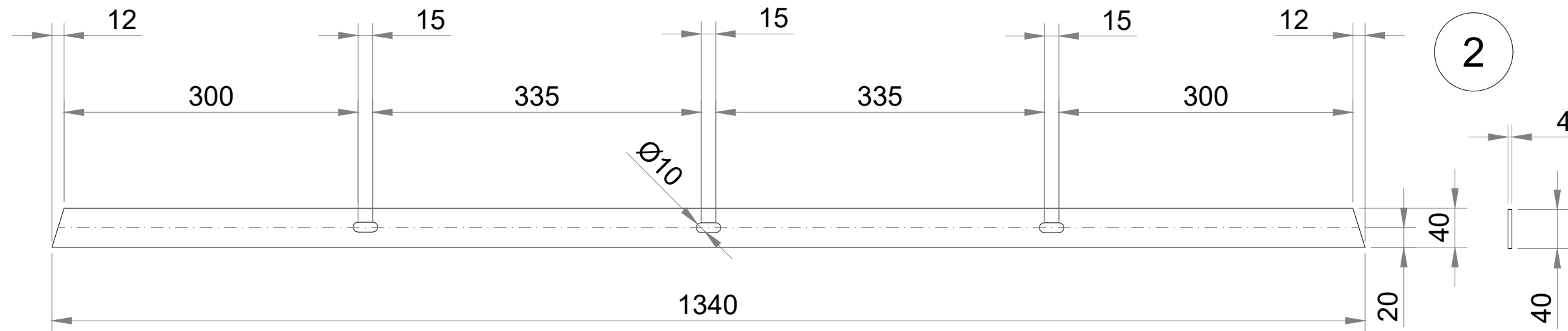
TIPO 4 - CARTER PER DOPPIO PALO TRALICCIATO LSU18
 DETTAGLI

TIPO 4 - CARTER PER DOPPIO PALO TRALICCIATO LSU18
DETTAGLI



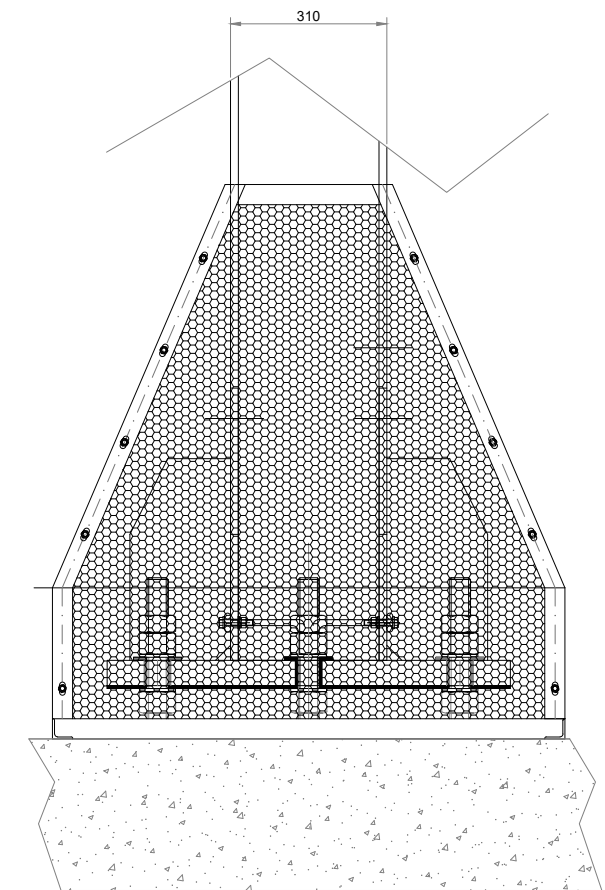
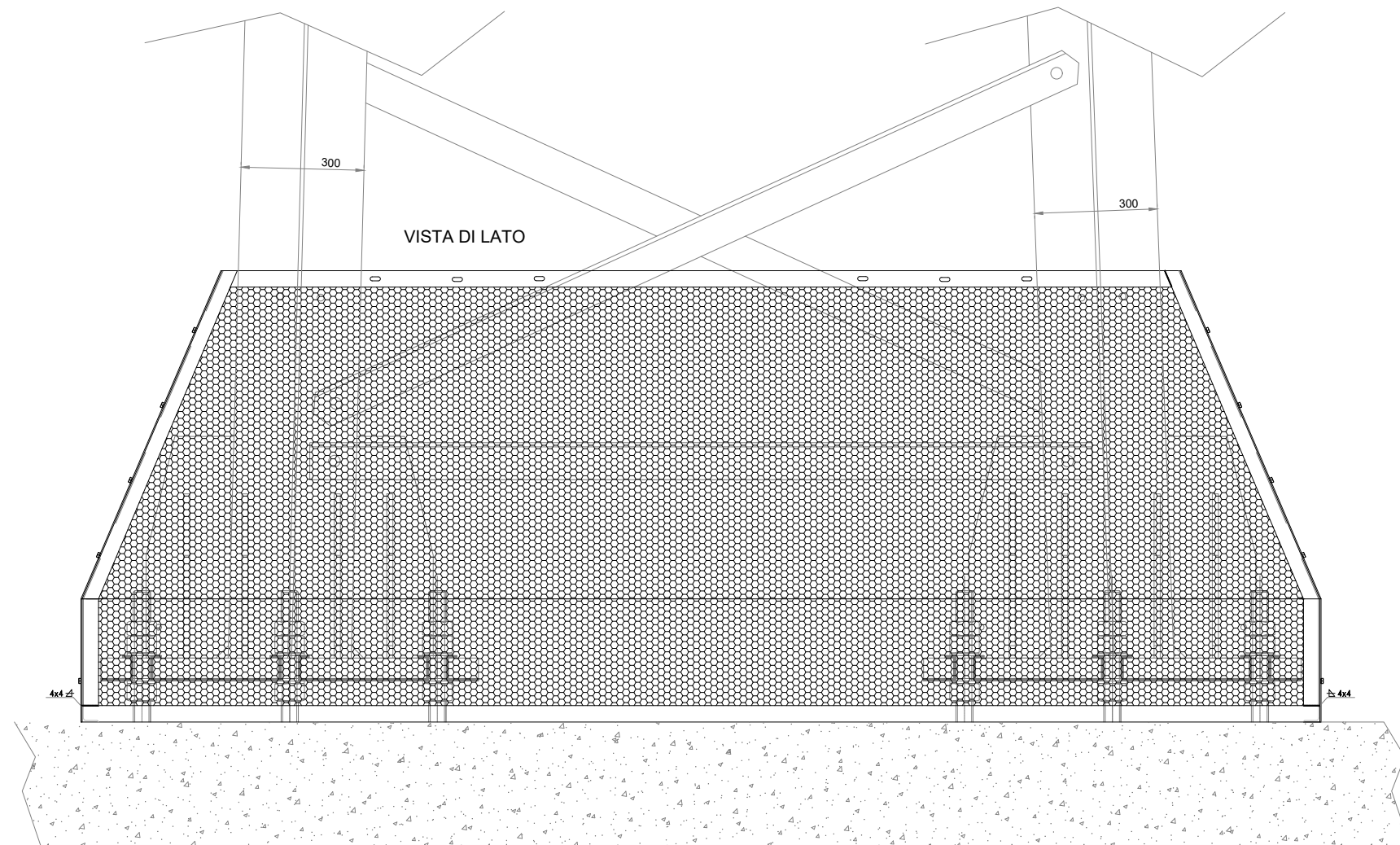


TIPO 4 - CARTER PER DOPPIO PALO TRALICCIATO LSU18
 DETTAGLI

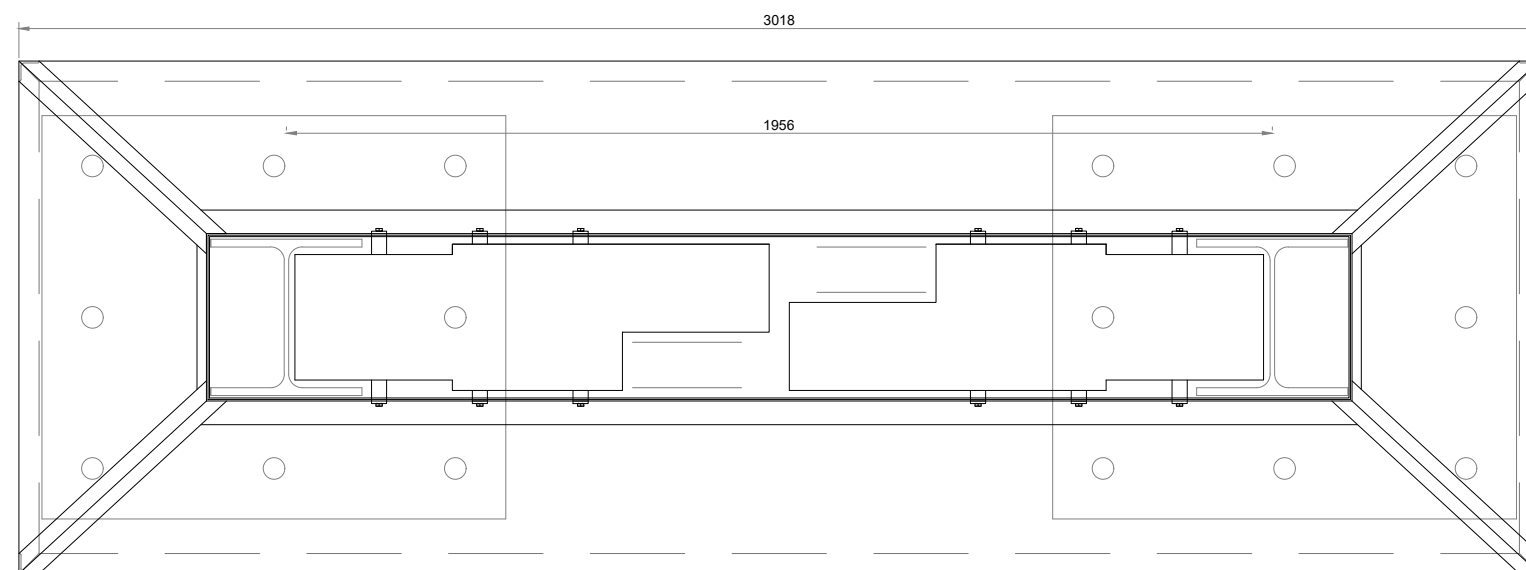


TIPO 4 - CARTER PER DOPPIO PALO TRALICCIATO LSU18
 DETTAGLI

LISTA MATERIALI PER N° 1 CARTER PER DOPPIO PALO TRALICCIATO LSU18 TIPO 4					
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	1	Piatto 364x5	153	2,262	ACCIAIO S275 JR UNI EN 10025
2	2	Piatto 40x4	1340	3,495	ACCIAIO S275 JR UNI EN 10025
3	2	Piatto 40x4	448	1,168	ACCIAIO S275 JR UNI EN 10025
4	2	Profilato L 40x40x4	1000	5,009	ACCIAIO S355 JR UNI EN 10025
5	2	Profilato L 40x40x4	1900	9,518	ACCIAIO S275 JR UNI EN 10025
6	4	Lamiera piegata 80x4	1000	10,400	ACCIAIO S275 JR UNI EN 10025
7	4	Lamiera 40x4	997	5,184	ACCIAIO S275 JR UNI EN 10025
8	2	Lamiera forata tondi R7 T10 960x3	1854	38,161	ACCIAIO S275 JR UNI EN 10025
9	2	Lamiera forata tondi R7 T10 960x3	960	19,760	ACCIAIO S275 JR UNI EN 10025
10	6	Piatto 30x5 Piegato a 90°	70	0,513	ACCIAIO S275 JR UNI EN 10025
9/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavata da tagli)	ACCIAIO S275 JR UNI EN 10025
11	6	Vite M8	35	0,100	ACCIAIO Cl. 6.8 - UNI 5737
	6	Dado M8	-	0,032	ACCIAIO CLASSE 6 - UNI 3740
	6	Rondella M8	-	0,013	ACCIAIO - UNI 1751
Totale Kg				95,615	

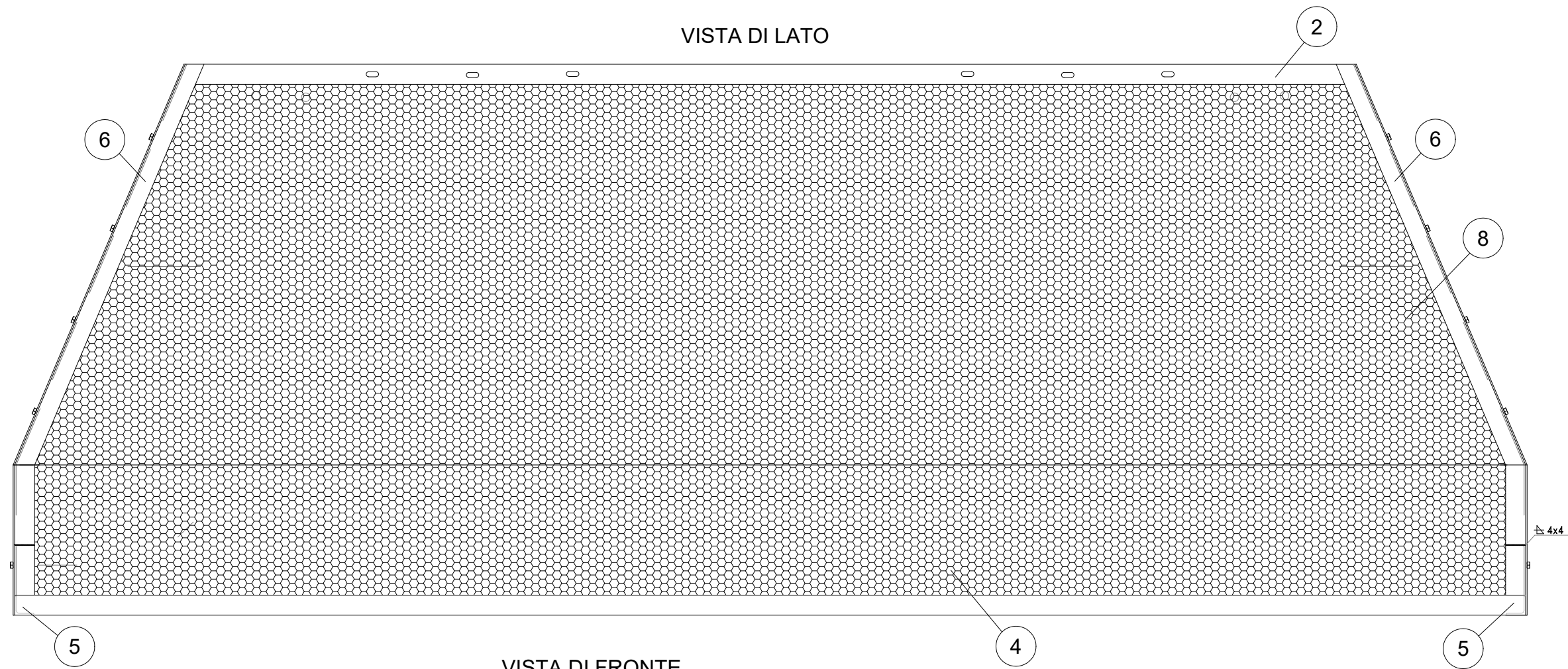


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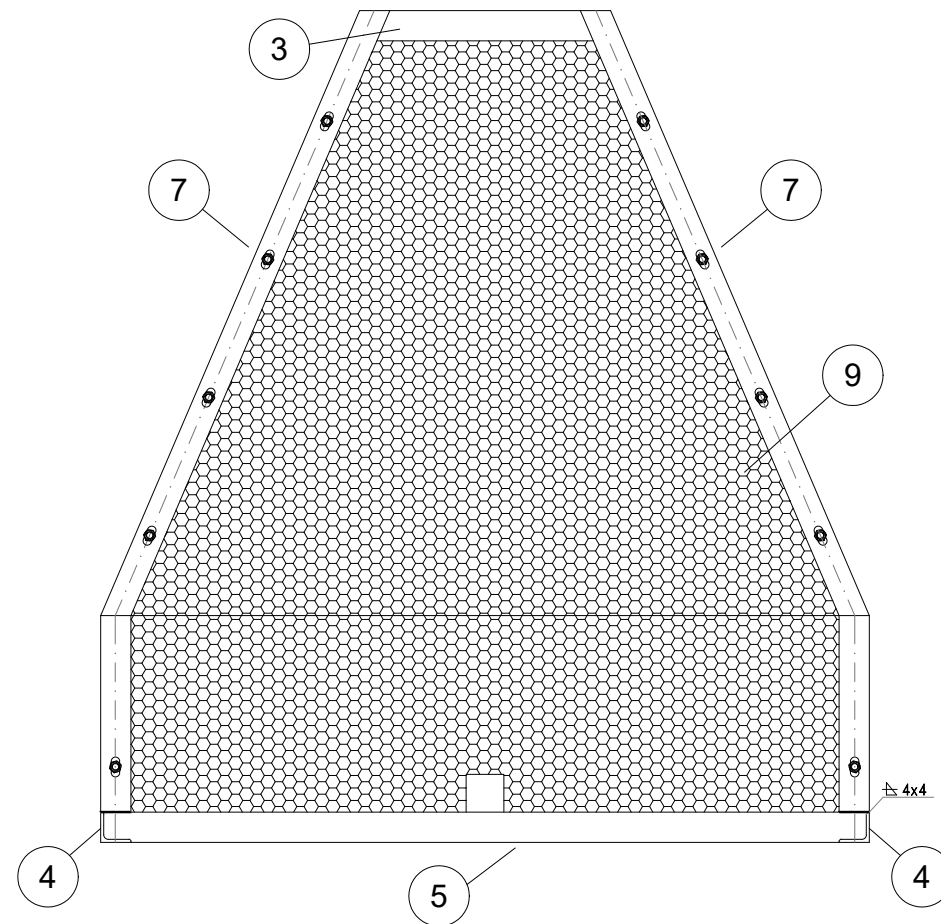


TIPO 5 - CARTER PER PORTALE
ORMEGGIO TRALICCIATO
ASSIEME

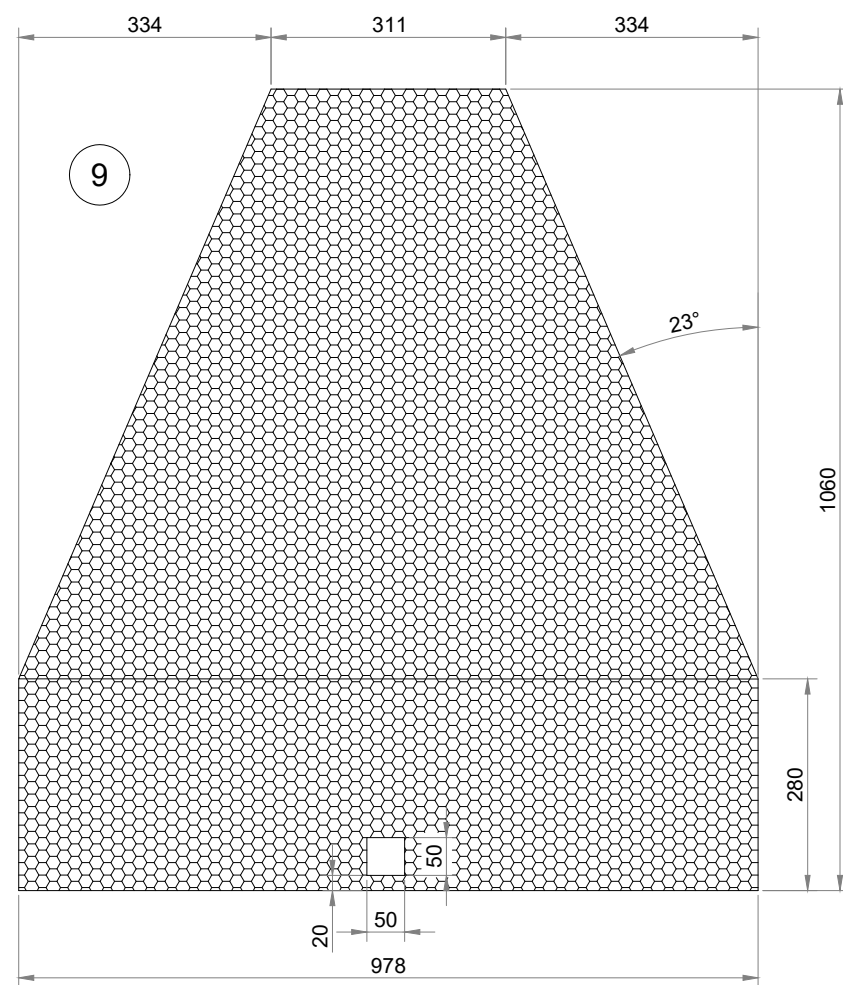
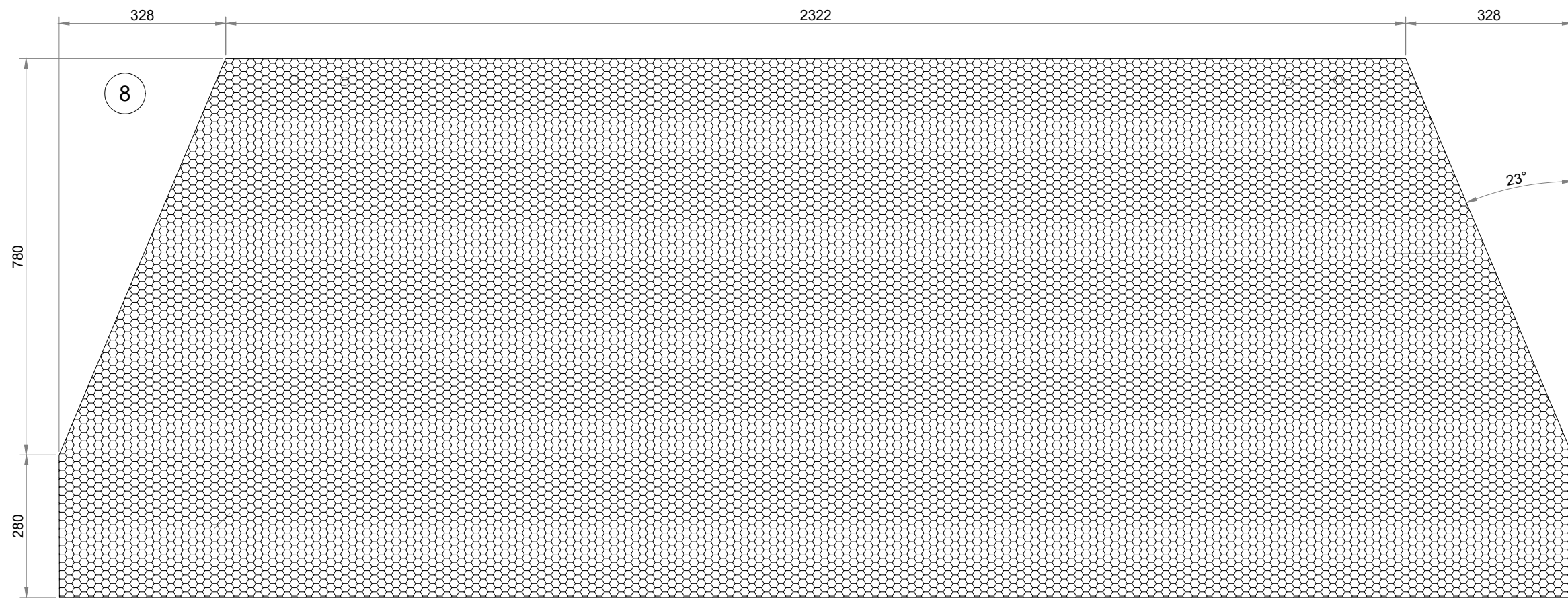
VISTA DI LATO



VISTA DI FRONTE



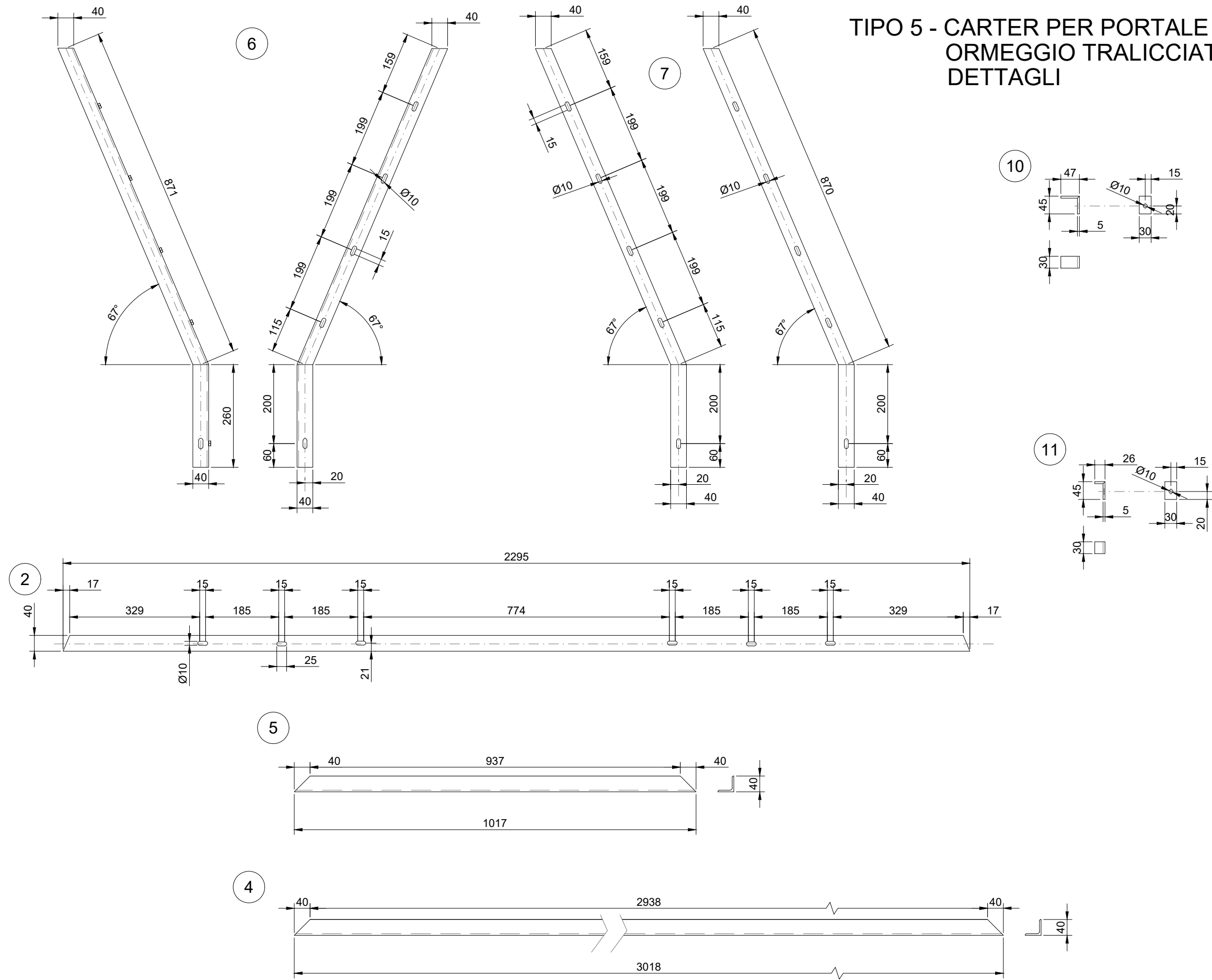
TIPO 5 - CARTER PER PORTALE
ORMEGGIO TRALICCIATO
DETTAGLI



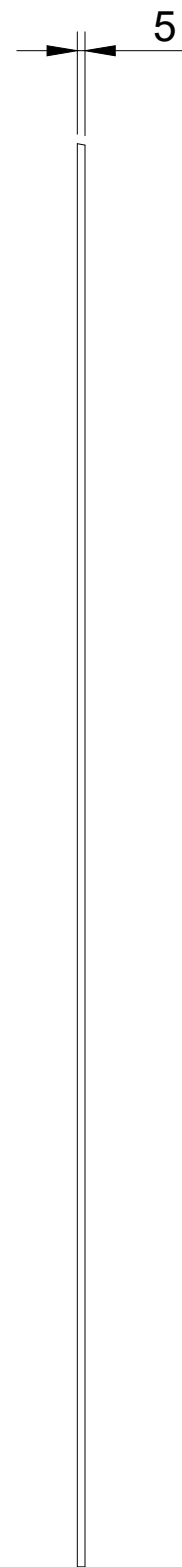
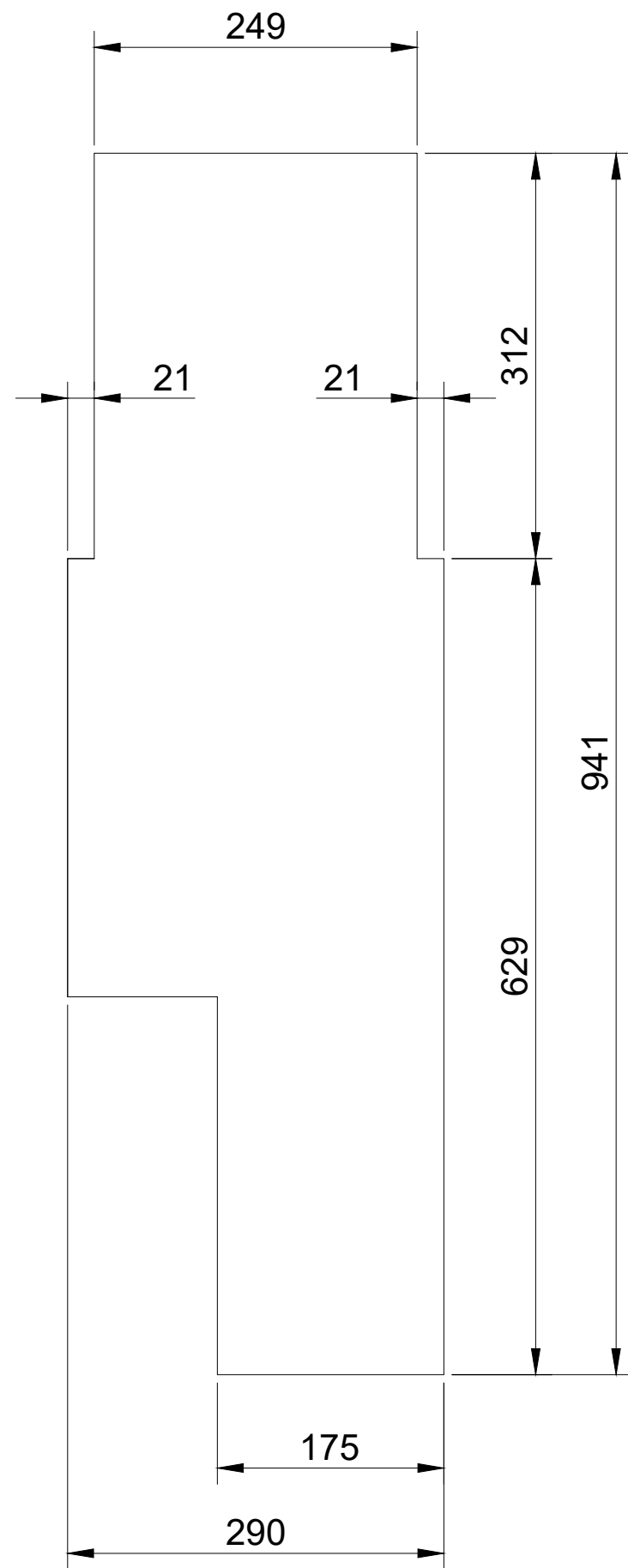
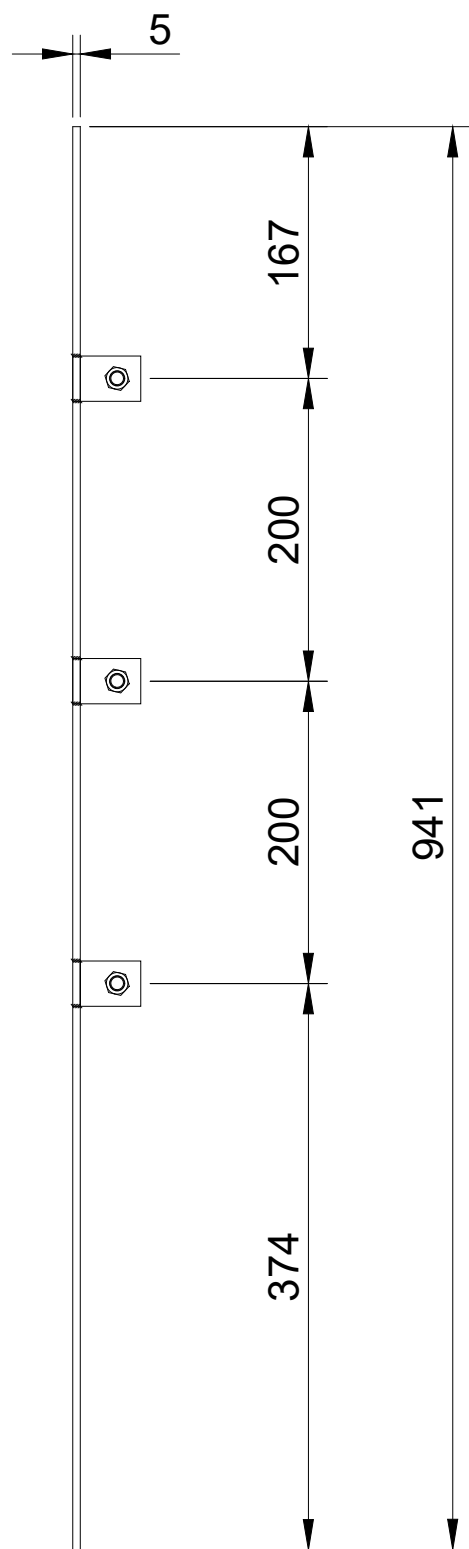
LISTA MATERIALI PER N° 1 CARTER PER PORTALE ORMEGGIO TRALICCIO TIPO 5

POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	2	Piatto 249x5	941	19,037	ACCIAIO S275 JR UNI EN 10025
2	2	Piatto 40x4	2295	5,986	ACCIAIO S275 JR UNI EN 10025
3	2	Piatto 40x4	286	0,746	ACCIAIO S275 JR UNI EN 10025
4	2	Profilato L 40x40x4	3018	15,118	ACCIAIO S275 JR UNI EN 10025
5	2	Profilato L 40x40x4	1017	5,095	ACCIAIO S275 JR UNI EN 10025
6	4	Lamiera piegata 80x4	1131	11,762	ACCIAIO S275 JR UNI EN 10025
7	4	Lamiera piegata 40x4	1130	5,876	ACCIAIO S275 JR UNI EN 10025
8	2	Lamiera forata tondi R7 T10 1060x3	2978	67,659	ACCIAIO S275 JR UNI EN 10025
9	2	Lamiera forata tondi R7 T10 1060x3	978	22,227	ACCIAIO S275 JR UNI EN 10025
9/1	1	Lamiera forata tondi R7 T10 100x3	100	(ricavata da tagli)	ACCIAIO S275 JR UNI EN 10025
10	8	Piatto 30x5 Piegato a 90°	92	0,899	ACCIAIO S275 JR UNI EN 10025
11	4	Piatto 30x5 Piegato a 90°	71	0,347	ACCIAIO S275 JR UNI EN 10025
12	34	Vite M8	35	0,598	ACCIAIO Cl. 6.8 - UNI 5737
	34	Dado M8	-	0,180	ACCIAIO CLASSE 6 - UNI 3740
	34	Rondella Grower M8	-	0,076	ACCIAIO - UNI 1751
Totale Kg				155,606	

TIPO 5 - CARTER PER PORTALE
ORMEGGIO TRALICCIATO
DETTAGLI

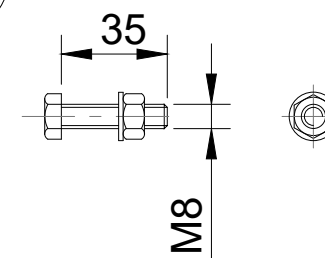


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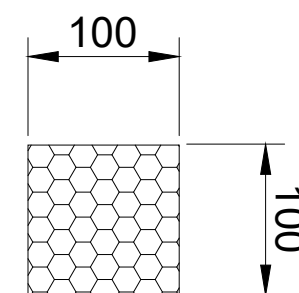


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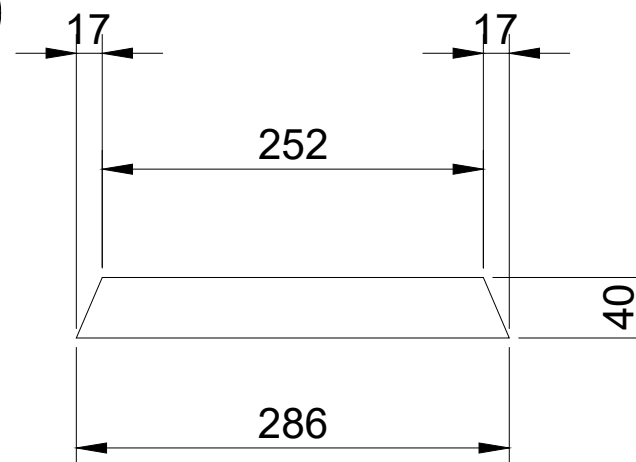
SCALA DOPPIA



9/1

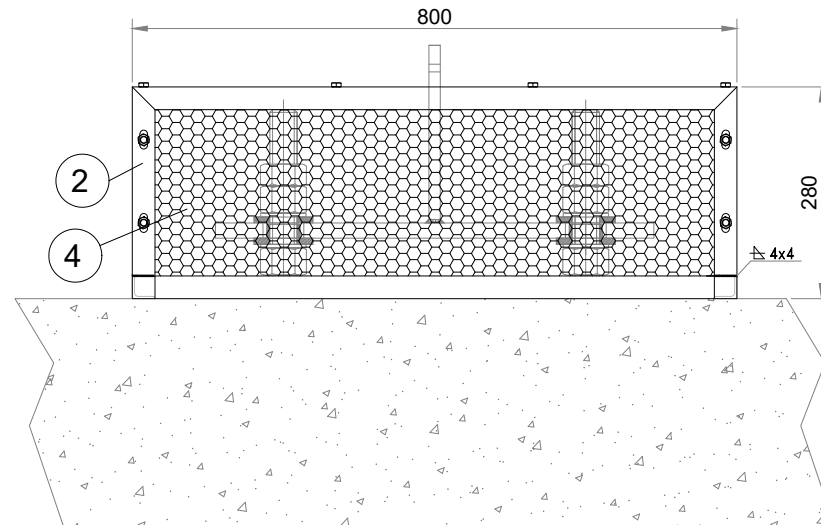


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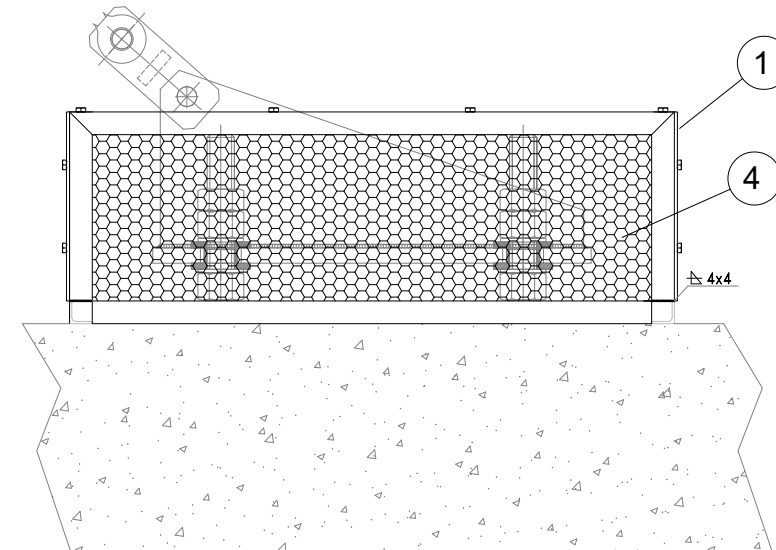


TIPO 5 - CARTER PER PORTALE
ORMEGGIO TRALICCIATO
DETTAGLI

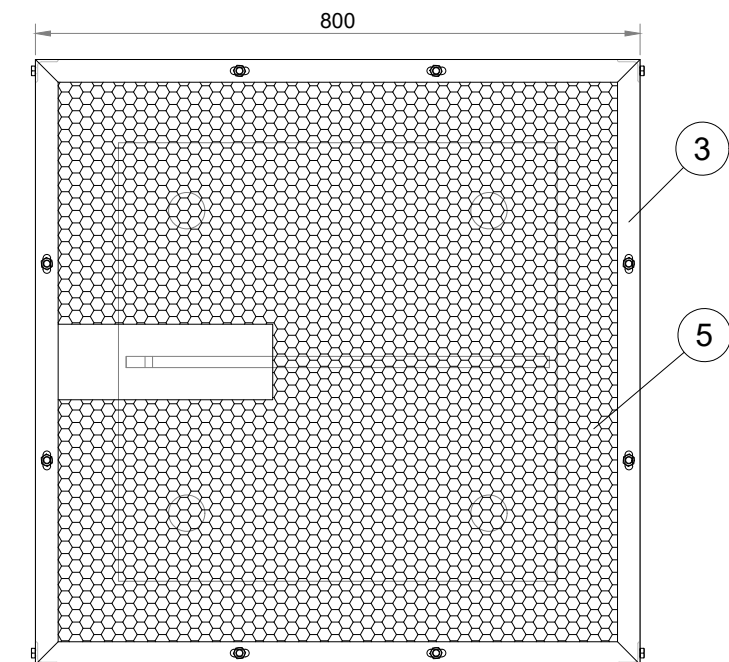
VISTA DI FRONTE



VISTA DI LATO



VISTA DALL'ALTO

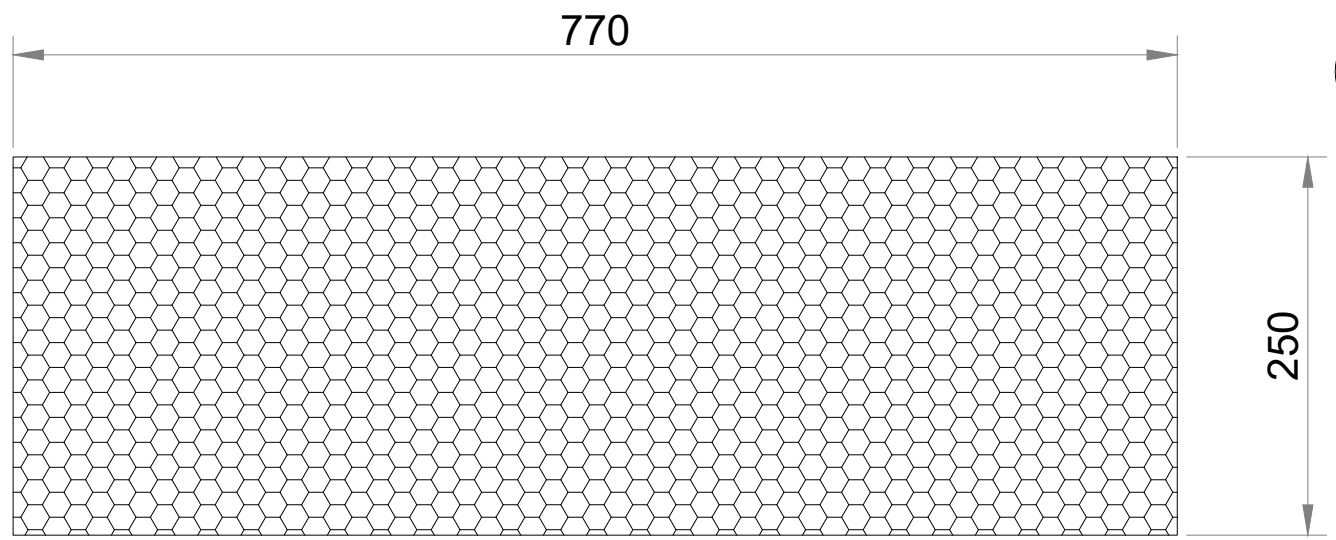
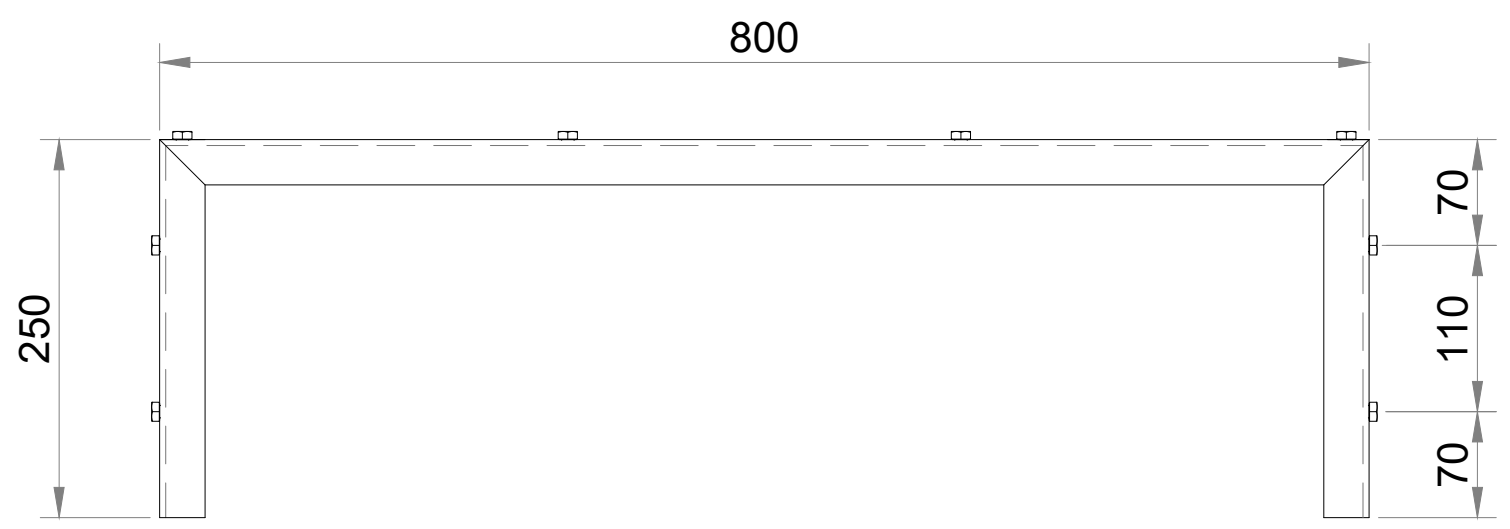
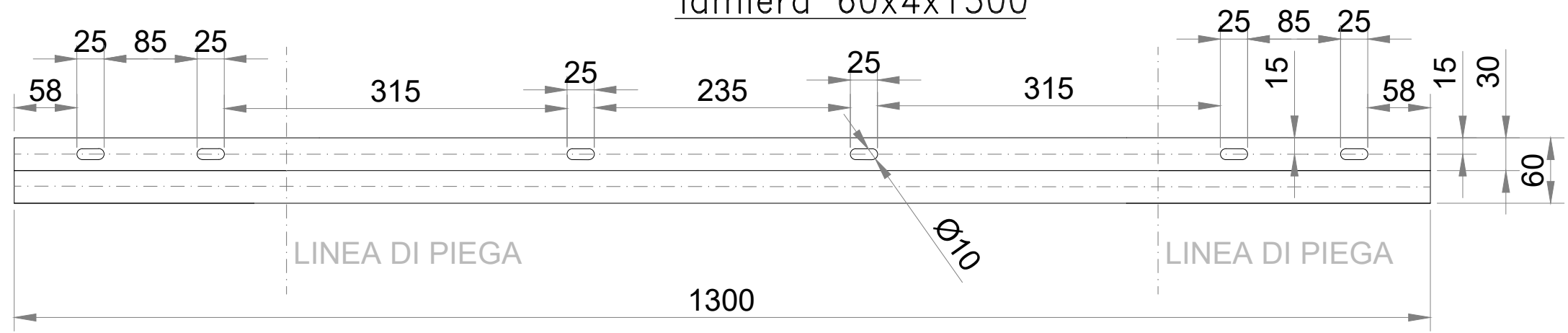


LISTA MATERIALI PER N° 1 CARTER DI PROTEZIONE TIRANTE A TERRA PIASTRATO TIPO 6					
POS.	N° PEZZI	DENOMINAZIONE	Lg. (mm)	MASSA (Kg)	MATERIALE
1	2	Lamiera piegata 60x4	1300	5,070	ACCIAIO S275 JR UNI EN 10025
2	2	Lamiera piegata 60x4	1300	5,070	ACCIAIO S275 JR UNI EN 10025
3	1	Lamiera 30x4	3200	3,120	ACCIAIO S275 JR UNI EN 10025
4	4	Lamiera forata tondi R7 T10 770x3	250	8,255	ACCIAIO S275 JR UNI EN 10025
5	1	Lamiera forata tondi R7 T10 770x3	770	6,356	ACCIAIO S275 JR UNI EN 10025
6	4	Profilato L 40x40x4	800	8,015	ACCIAIO S275 JR UNI EN 10025
7	16	Vite M8	35	0,257	ACCIAIO Cl. 6.8 - UNI 5737
	16	Dado M8	-	0,085	ACCIAIO CLASSE 6 - UNI 3740
	16	Rondella M8	-	0,036	ACCIAIO - UNI 1751
Totale Kg				36,264	

TIPO 6 - CARTER PER TIRANTE A TERRA PIASTRATO
ASSIEME

1

lamiera 60x4x1300

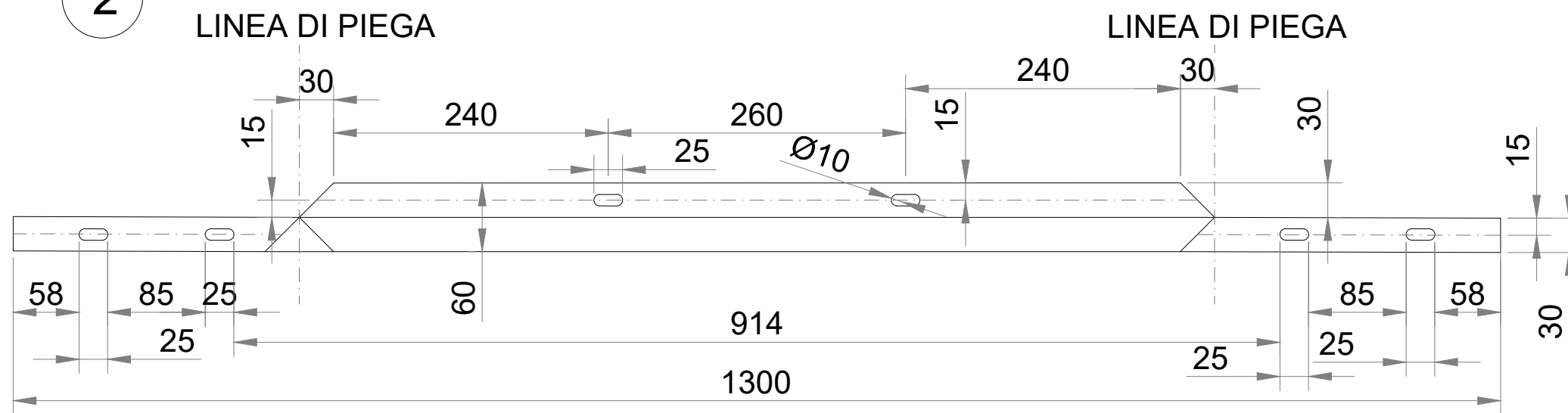


4

TIPO 6 - CARTER PER TIRANTE A TERRA PIASTRATO
DETTAGLI

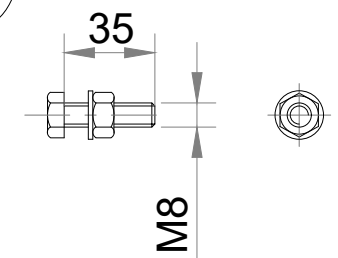
lamiera 60x4x1300

2

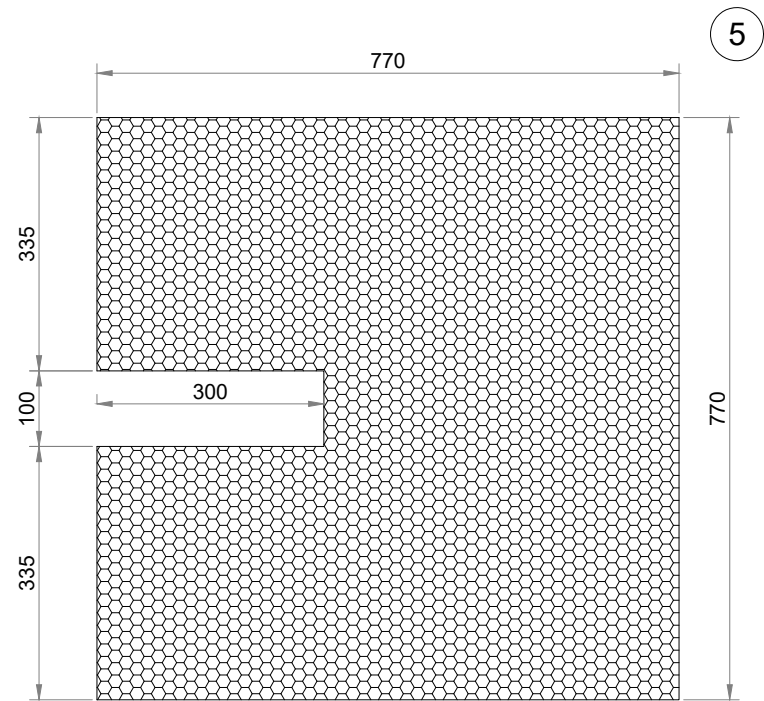


SCALA DOPPIA

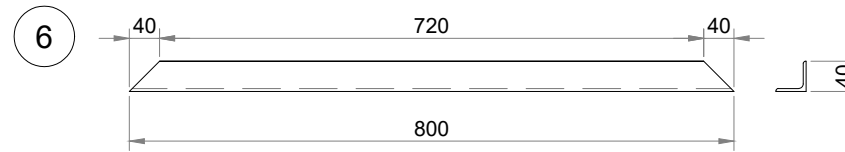
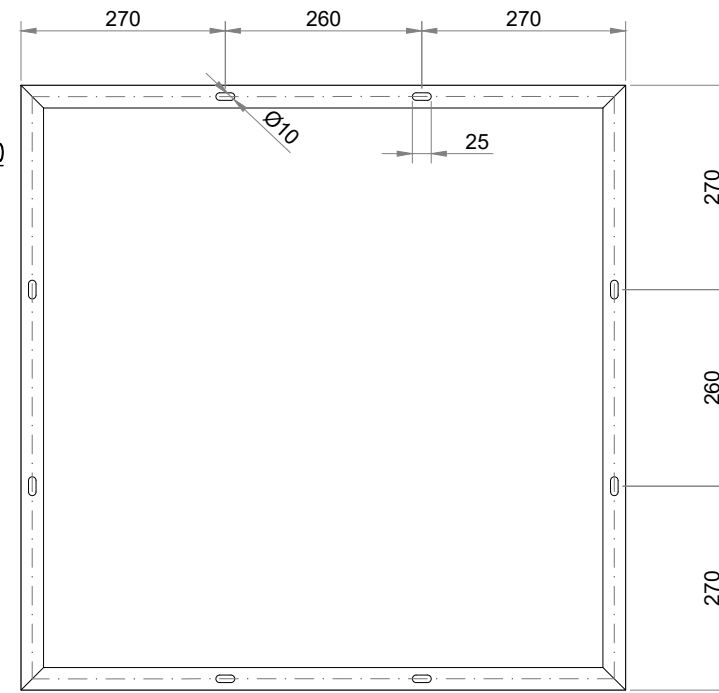
7



TIPO 6 - CARTER PER TIRANTE A TERRA PIASTRATO
DETTAGLI



3
lamiera 30x4x3200



TIPO 6 - CARTER PER TIRANTE A TERRA PIASTRATO
DETTAGLI