

OPIS

- **TSP** - tłumiki szumu prostokątne, kulisy tłumika wykonane są z wełny dźwiękochłonnej.

Rodzaj kulis:

KA - wełna mineralna laminowana warstwą włókna szklanego, zabezpieczającego powierzchnie kulis przed ścieraniem o grubości $G=100\text{mm}$ i $G=200\text{mm}$. Tłumienie w zakresie średnich i wysokich częstotliwości.

KB - wełna mineralna laminowana warstwą włókna szklanego, zabezpieczającego powierzchnie kulis przed ścieraniem o grubości $G=100\text{mm}$ i $G=200\text{mm}$. Dodatkowo połowa powierzchni kulisy jest pokryta blachą stalową. Tłumienie w zakresie niskich i średnich częstotliwości.

KC - wełna mineralna laminowana warstwą włókna szklanego, zabezpieczającego powierzchnie kulis przed ścieraniem o grubości $G=100\text{mm}$ i $G=200\text{mm}$. Dodatkowo połowa powierzchni kulisy jest pokryta blachą stalową. Tłumienie w zależności od wersji kulisy KA lub KB.

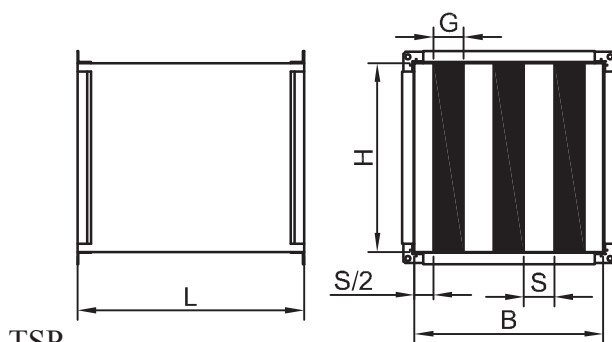
Wymiary:

Zakres wymiarów dowolny wg życzenia klienta, wynikający z wymaganej charakterystyki tłumienia. Długość dostarczona bez podzielenia $L=1500\text{mm}$.

Grubość kulis G może wynosić 100mm lub 200mm . Szerokości szczelin między płytami o grubości $G=100\text{mm}$ wynosi: $50, 57.5, 66.7, 100, 150\text{mm}$, a dla płyt o grubości $G=200\text{mm}$ wynosi: $100, 150, 200\text{mm}$.

Material:

stal ocynkowana DX51D (opcjonalnie możliwe jest wykonanie ze stali nierdzewnej).



TSP

ZAMÓWIENIE

•TSP-<G>-<n>-<S>-<BxH>-<L>

- <G> Grubość kulis G [mm]
- <n> Ilość kulis
- <S> Odstęp między kulisami [mm]
- <B x H> wymiar zewnętrzny [mm]
- <L> Długość L [mm]

Przykład:

TSP-100-3-50-630x500-1000



**Tłumienność
kulisy typ KA**

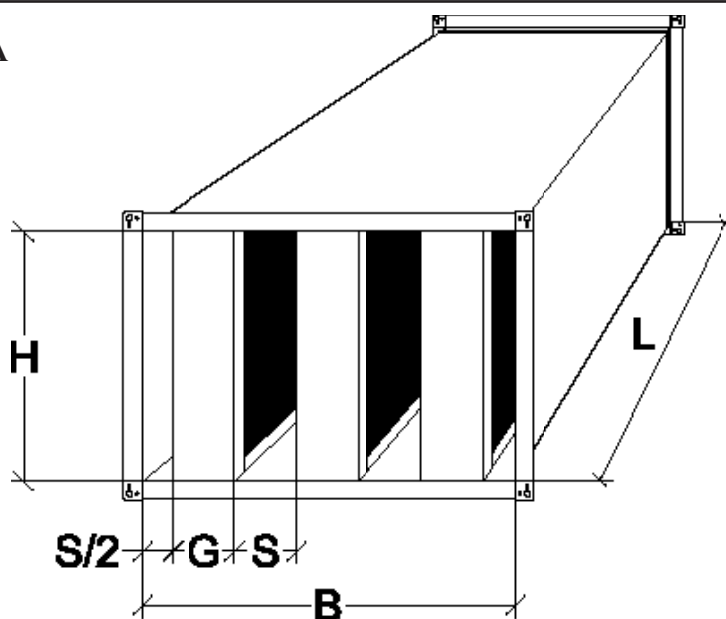


Tabela nr 1

Kulisa, odstęp	Długość	Tłumienność wkładu w Hz		
G-S	L	125	250	500
100-50	500	5,0	9,0	15,0
100-57,5		4,5	8,0	14,0
100-66,7		4,0	6,5	13,0
100-100		3,0	4,5	11,0
100-150		2,0	3,0	8,0
200-100		5,0	12,0	17,0
200-150		4,0	9,0	13,0
200-200		3,0	6,5	9,0
100-50	750	6,5	12,0	20,0
100-57,5		6,0	11,0	18,0
100-66,7		5,0	9,5	16,0
100-100		4,0	7,0	14,0
100-150		3,0	5,0	10,0
200-100		6,0	14,0	25,0
200-150		5,0	11,0	18,0
200-200		4,0	9,0	15,0
100-50	1000	7,5	17,0	26,0
100-57,5		7,0	16,0	23,0
100-66,7		6,0	14,0	20,0
100-100		5,0	9,0	16,0
100-150		4,0	7,5	12,0
200-100		8,0	21,0	30,0
200-150		6,0	15,0	25,0
200-200		5,0	11,0	18,5

Tabela nr 1 cd.

Kulisa, odstęp	Długość	Tłumienność wkładu w Hz		
G-S	L	125	250	500
100-50	1250	8,5	19,0	30,0
100-57,5		8,0	17,0	27,0
100-66,7		7,0	12,0	23,5
100-100		6,0	10,5	20,0
100-150		5,0	8,5	15,0
200-100		10,0	24,0	34,0
200-150		8,0	17,0	26,0
200-200		6,0	13,0	21,0
100-50	1500	10,0	22,0	34,0
100-57,5		9,0	21,0	31,0
100-66,7		8,0	18,0	29,0
100-100		7,0	12,0	23,0
100-150		6,0	9,5	17,0
200-100		12,0	26,0	39,0
200-150		10,0	20,0	30,0
200-200		8,0	15,0	24,5
100-50	1750	11,0	25,0	39,0
100-57,5		10,0	24,0	35,0
100-66,7		9,0	17,0	33,0
100-100		8,0	14,0	24,0
100-150		7,0	11,0	18,0
200-100		13,5	31,0	43,0
200-150		11,5	23,0	35,5
200-200		10,0	17,5	27,0
100-50	2000	12,0	28,0	43,0
100-57,5		11,0	27,0	40,0
100-66,7		10,0	21,0	38,0
100-100		9,0	16,0	26,0
100-150		8,0	12,0	19,5
200-100		14,0	35,0	46,0
200-150		12,0	25,0	39,0
200-200		11,0	20,0	30,0

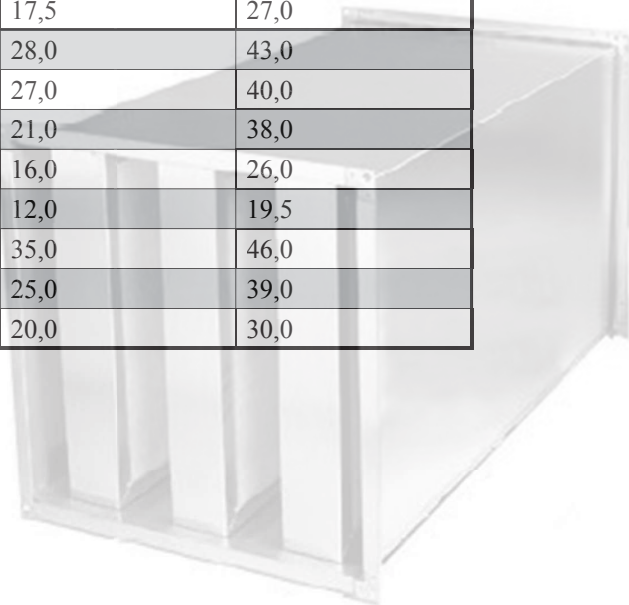


Tabela nr 2 Dla L=500 1250mm

Wymiary [mm]		Powierzchnia czynna [m2]	Kulisy [Grubość, ilość, odstęp]	Wydajność [m3/h]			500			Masa	750			Masa	1000			1250			Masa	Mas a
				8 [m/s]	10 [m/s]	12 [m/s]	125Hz	250Hz	500Hz		kg	125Hz	250Hz		500Hz	kg	125Hz	250Hz	500Hz	kg		
B	H	F	G,n,S																			
250	125	0,01875	100-1-150	540	675	810	2,0	3,0	8,0	5,0	3,0	5,0	10,0	8,0	4,0	7,5	12,0	10,0	5,0	8,5	15,0	13,0
250	160	0,02400	100-1-150	691	864	1037	2,0	3,0	8,0	5,0	3,0	5,0	10,0	8,0	4,0	7,5	12,0	10,0	5,0	8,5	15,0	13,0
250	200	0,03000	100-1-150	864	1080	1296	2,0	3,0	8,0	6,0	3,0	5,0	10,0	9,0	4,0	7,5	12,0	12,0	5,0	8,5	15,0	15,0
250	250	0,03750	100-1-150	1080	1350	1620	2,0	3,0	8,0	6,0	3,0	5,0	10,0	9,0	4,0	7,5	12,0	12,0	5,0	8,5	15,0	15,0
315	125	0,01438	100-2-57,5	414	518	621	4,5	8,0	14,0	7,0	6,0	11,0	18,0	11,0	7,0	16,0	23,0	14,0	8,0	17,0	27,0	18,0
315	160	0,01840	100-2-57,5	530	662	795	4,5	8,0	14,0	7,0	6,0	11,0	18,0	11,0	7,0	16,0	23,0	14,0	8,0	17,0	27,0	18,0
315	200	0,02300	100-2-57,5	662	828	994	4,5	8,0	14,0	8,0	6,0	11,0	18,0	12,0	7,0	16,0	23,0	16,0	8,0	17,0	27,0	20,0
315	250	0,02875	100-2-57,5	828	1035	1242	4,5	8,0	14,0	9,0	6,0	11,0	18,0	14,0	7,0	16,0	23,0	18,0	8,0	17,0	27,0	23,0
315	315	0,03623	100-2-57,5	1043	1304	1565	4,5	8,0	14,0	10,0	6,0	11,0	18,0	15,0	7,0	16,0	23,0	20,0	8,0	17,0	27,0	25,0
400	160	0,03200	100-2-100	922	1152	1382	3,0	4,5	11,0	8,0	4,0	7,0	14,0	12,0	5,0	9,0	16,0	16,0	6,0	10,5	20,0	20,0
400	200	0,04000	100-2-100	1152	1440	1728	3,0	4,5	11,0	9,0	4,0	7,0	14,0	14,0	5,0	9,0	16,0	18,0	6,0	10,5	20,0	23,0
400	250	0,05000	100-2-100	1440	1800	2160	3,0	4,5	11,0	9,0	4,0	7,0	14,0	14,0	5,0	9,0	16,0	18,0	6,0	10,5	20,0	23,0
400	315	0,06300	100-2-100	1814	2268	2722	3,0	4,5	11,0	10,0	4,0	7,0	14,0	15,0	5,0	9,0	16,0	20,0	6,0	10,5	20,0	25,0
400	400	0,08000	100-2-100	2304	2880	3456	3,0	4,5	11,0	12,0	4,0	7,0	14,0	18,0	5,0	9,0	16,0	24,0	6,0	10,5	20,0	30,0
500	200	0,06000	100-2-150	1728	2160	2592	2,0	3,0	8,0	9,0	3,0	5,0	10,0	14,0	4,0	7,5	12,0	18,0	5,0	8,5	15,0	23,0
500	250	0,07500	100-2-150	2160	2700	3240	2,0	3,0	8,0	10,0	3,0	5,0	10,0	15,0	4,0	7,5	12,0	20,0	5,0	8,5	15,0	25,0
500	315	0,09450	100-2-150	2722	3402	4082	2,0	3,0	8,0	11,0	3,0	5,0	10,0	17,0	4,0	7,5	12,0	22,0	5,0	8,5	15,0	28,0
500	400	0,12000	100-2-150	3456	4320	5184	2,0	3,0	8,0	13,0	3,0	5,0	10,0	20,0	4,0	7,5	12,0	26,0	5,0	8,5	15,0	33,0
500	500	0,15000	100-2-150	4320	5400	6480	2,0	3,0	8,0	14,0	3,0	5,0	10,0	21,0	4,0	7,5	12,0	28,0	5,0	8,5	15,0	35,0
500	200	0,04000	100-3-66,7	1152	1440	1728	4,0	6,5	13,0	11,0	5,0	9,5	16,0	17,0	6,0	14,0	20,0	22,0	7,0	12,0	23,5	28,0
500	250	0,05000	100-3-66,7	1440	1800	2160	4,0	6,5	13,0	12,0	5,0	9,5	16,0	18,0	6,0	14,0	20,0	24,0	7,0	12,0	23,5	30,0
500	315	0,06300	100-3-66,7	1814	2268	2722	4,0	6,5	13,0	14,0	5,0	9,5	16,0	21,0	6,0	14,0	20,0	28,0	7,0	12,0	23,5	35,0
500	400	0,08000	100-3-66,7	2304	2880	3456	4,0	6,5	13,0	15,0	5,0	9,5	16,0	23,0	6,0	14,0	20,0	30,0	7,0	12,0	23,5	38,0
500	500	0,10000	100-3-66,7	2880	3600	4320	4,0	6,5	13,0	18,0	5,0	9,5	16,0	27,0	6,0	14,0	20,0	36,0	7,0	12,0	23,5	45,0
630	250	0,05750	100-4-57,5	1656	2070	2484	4,5	8,0	14,0	15,0	6,0	11,0	18,0	23,0	7,0	16,0	23,0	30,0	8,0	17,0	27,0	38,0

630	315	0,07245	100-4-57,5	2087	2608	3130	4,5	8,0	14,0	17,0	6,0	11,0	18,0	26,0	7,0	16,0	23,0	34,0	8,0	17,0	27,0	43,0
630	400	0,09200	100-4-57,5	2650	3312	3974	4,5	8,0	14,0	19,0	6,0	11,0	18,0	29,0	7,0	16,0	23,0	38,0	8,0	17,0	27,0	48,0
630	500	0,11500	100-4-57,5	3312	4140	4968	4,5	8,0	14,0	22,0	6,0	11,0	18,0	33,0	7,0	16,0	23,0	44,0	8,0	17,0	27,0	55,0
630	630	0,14490	100-4-57,5	4173	5216	6260	4,5	8,0	14,0	25,0	6,0	11,0	18,0	38,0	7,0	16,0	23,0	50,0	8,0	17,0	27,0	63,0
750	250	0,11250	100-3-150	3240	4050	4860	2,0	3,0	8,0	14,0	3,0	5,0	10,0	21,0	4,0	7,5	12,0	28,0	5,0	8,5	15,0	35,0
750	315	0,14175	100-3-150	4082	5103	6124	2,0	3,0	8,0	15,0	3,0	5,0	10,0	23,0	4,0	7,5	12,0	30,0	5,0	8,5	15,0	38,0
750	400	0,18000	100-3-150	5184	6480	7776	2,0	3,0	8,0	17,0	3,0	5,0	10,0	26,0	4,0	7,5	12,0	34,0	5,0	8,5	15,0	43,0
750	500	0,22500	100-3-150	6480	8100	9720	2,0	3,0	8,0	19,0	3,0	5,0	10,0	29,0	4,0	7,5	12,0	38,0	5,0	8,5	15,0	48,0
750	630	0,28350	100-3-150	8165	10206	12247	2,0	3,0	8,0	22,0	3,0	5,0	10,0	33,0	4,0	7,5	12,0	44,0	5,0	8,5	15,0	55,0
750	750	0,33750	100-3-150	9720	12150	14580	2,0	3,0	8,0	25,0	3,0	5,0	10,0	38,0	4,0	7,5	12,0	50,0	5,0	8,5	15,0	63,0
750	250	0,06250	100-5-50	1800	2250	2700	5,0	9,0	15,0	18,0	6,5	12,0	20,0	27,0	7,5	17,0	26,0	36,0	8,5	19,0	30,0	45,0
750	315	0,07875	100-5-50	2268	2835	3402	5,0	9,0	15,0	20,0	6,5	12,0	20,0	30,0	7,5	17,0	26,0	40,0	8,5	19,0	30,0	50,0
750	400	0,10000	100-5-50	2880	3600	4320	5,0	9,0	15,0	23,0	6,5	12,0	20,0	35,0	7,5	17,0	26,0	46,0	8,5	19,0	30,0	58,0
750	500	0,12500	100-5-50	3600	4500	5400	5,0	9,0	15,0	26,0	6,5	12,0	20,0	39,0	7,5	17,0	26,0	52,0	8,5	19,0	30,0	65,0
750	630	0,15750	100-5-50	4536	5670	6804	5,0	9,0	15,0	30,0	6,5	12,0	20,0	45,0	7,5	17,0	26,0	60,0	8,5	19,0	30,0	75,0
750	750	0,18750	100-5-50	5400	6750	8100	5,0	9,0	15,0	34,0	6,5	12,0	20,0	51,0	7,5	17,0	26,0	68,0	8,5	19,0	30,0	85,0
800	315	0,12600	100-4-100	3629	4536	5443	3,0	4,5	11,0	18,0	4,0	7,0	14,0	27,0	5,0	9,0	16,0	36,0	6,0	10,5	20,0	45,0
800	400	0,16000	100-4-100	4608	5760	6912	3,0	4,5	11,0	20,0	4,0	7,0	14,0	30,0	5,0	9,0	16,0	40,0	6,0	10,5	20,0	50,0
800	500	0,20000	100-4-100	5760	7200	8640	3,0	4,5	11,0	23,0	4,0	7,0	14,0	35,0	5,0	9,0	16,0	46,0	6,0	10,5	20,0	58,0
800	630	0,25200	100-4-100	7258	9072	10886	3,0	4,5	11,0	26,0	4,0	7,0	14,0	39,0	5,0	9,0	16,0	52,0	6,0	10,5	20,0	65,0
800	750	0,30000	100-4-100	8640	10800	12960	3,0	4,5	11,0	30,0	4,0	7,0	14,0	45,0	5,0	9,0	16,0	60,0	6,0	10,5	20,0	75,0
800	800	0,32000	100-4-100	9216	11520	13824	3,0	4,5	11,0	31,0	4,0	7,0	14,0	47,0	5,0	9,0	16,0	62,0	6,0	10,5	20,0	78,0
800	315	0,12600	200-2-200	3629	4536	5443	3,0	6,5	9,0	18,0	4,0	9,0	15,0	27,0	5,0	11,0	18,5	36,0	6,0	13,0	21,0	45,0
800	400	0,16000	200-2-200	4608	5760	6912	3,0	6,5	9,0	21,0	4,0	9,0	15,0	32,0	5,0	11,0	18,5	42,0	6,0	13,0	21,0	53,0
800	500	0,20000	200-2-200	5760	7200	8640	3,0	6,5	9,0	24,0	4,0	9,0	15,0	36,0	5,0	11,0	18,5	48,0	6,0	13,0	21,0	60,0
800	630	0,25200	200-2-200	7258	9072	10886	3,0	6,5	9,0	27,0	4,0	9,0	15,0	41,0	5,0	11,0	18,5	54,0	6,0	13,0	21,0	68,0
800	750	0,30000	200-2-200	8640	10800	12960	3,0	6,5	9,0	31,0	4,0	9,0	15,0	47,0	5,0	11,0	18,5	62,0	6,0	13,0	21,0	78,0
800	800	0,32000	200-2-200	9216	11520	13824	3,0	6,5	9,0	32,0	4,0	9,0	15,0	48,0	5,0	11,0	18,5	64,0	6,0	13,0	21,0	80,0
900	400	0,12000	100-6-50	3456	4320	5184	5,0	9,0	15,0	27,0	6,5	12,0	20,0	41,0	7,5	17,0	26,0	54,0	8,5	19,0	30,0	68,0
900	500	0,15000	100-6-50	4320	5400	6480	5,0	9,0	15,0	30,0	6,5	12,0	20,0	45,0	7,5	17,0	26,0	60,0	8,5	19,0	30,0	75,0
900	630	0,18900	100-6-50	5443	6804	8165	5,0	9,0	15,0	35,0	6,5	12,0	20,0	53,0	7,5	17,0	26,0	70,0	8,5	19,0	30,0	88,0



900	750	0,22500	100-6-50	6480	8100	9720	5,0	9,0	15,0	39,0	6,5	12,0	20,0	59,0	7,5	17,0	26,0	78,0	8,5	19,0	30,0	98,0
900	800	0,24000	100-6-50	6912	8640	10368	5,0	9,0	15,0	41,0	6,5	12,0	20,0	62,0	7,5	17,0	26,0	82,0	8,5	19,0	30,0	103,0
900	900	0,27000	100-6-50	7776	9720	11664	5,0	9,0	15,0	45,0	6,5	12,0	20,0	68,0	7,5	17,0	26,0	90,0	8,5	19,0	30,0	113,0
900	400	0,12000	200-3-100	3456	4320	5184	5,0	12,0	17,0	27,0	6,0	14,0	25,0	41,0	8,0	21,0	30,0	54,0	10,0	24,0	34,0	68,0
900	500	0,15000	200-3-100	4320	5400	6480	5,0	12,0	17,0	31,0	6,0	14,0	25,0	47,0	8,0	21,0	30,0	62,0	10,0	24,0	34,0	78,0
900	630	0,18900	200-3-100	5443	6804	8165	5,0	12,0	17,0	37,0	6,0	14,0	25,0	56,0	8,0	21,0	30,0	74,0	10,0	24,0	34,0	93,0
900	750	0,22500	200-3-100	6480	8100	9720	5,0	12,0	17,0	41,0	6,0	14,0	25,0	62,0	8,0	21,0	30,0	82,0	10,0	24,0	34,0	103,0
900	800	0,24000	200-3-100	6912	8640	10368	5,0	12,0	17,0	43,0	6,0	14,0	25,0	65,0	8,0	21,0	30,0	86,0	10,0	24,0	34,0	108,0
900	900	0,27000	200-3-100	7776	9720	11664	5,0	12,0	17,0	47,0	6,0	14,0	25,0	71,0	8,0	21,0	30,0	94,0	10,0	24,0	34,0	118,0
1000	400	0,24000	100-4-150	6912	8640	10368	2,0	3,0	8,0	22,0	3,0	5,0	10,0	33,0	4,0	7,5	12,0	44,0	5,0	8,5	15,0	55,0
1000	500	0,30000	100-4-150	8640	10800	12960	2,0	3,0	8,0	24,0	3,0	5,0	10,0	36,0	4,0	7,5	12,0	48,0	5,0	8,5	15,0	60,0
1000	630	0,37800	100-4-150	10886	13608	16330	2,0	3,0	8,0	28,0	3,0	5,0	10,0	42,0	4,0	7,5	12,0	56,0	5,0	8,5	15,0	70,0
1000	750	0,45000	100-4-150	12960	16200	19440	2,0	3,0	8,0	31,0	3,0	5,0	10,0	47,0	4,0	7,5	12,0	62,0	5,0	8,5	15,0	78,0
1000	800	0,48000	100-4-150	13824	17280	20736	2,0	3,0	8,0	32,0	3,0	5,0	10,0	48,0	4,0	7,5	12,0	64,0	5,0	8,5	15,0	80,0
1000	900	0,54000	100-4-150	15552	19440	23228	2,0	3,0	8,0	35,0	3,0	5,0	10,0	53,0	4,0	7,5	12,0	70,0	5,0	8,5	15,0	88,0
1000	1000	0,60000	100-4-150	17280	21600	25920	2,0	3,0	8,0	38,0	3,0	5,0	10,0	57,0	4,0	7,5	12,0	76,0	5,0	8,5	15,0	95,0
1000	400	0,20000	100-5-100	5760	7200	8640	3,0	4,5	11,0	25,0	4,0	7,0	14,0	38,0	5,0	9,0	16,0	50,0	6,0	10,5	20,0	63,0
1000	500	0,25000	100-5-100	7200	9000	10800	3,0	4,5	11,0	28,0	4,0	7,0	14,0	42,0	5,0	9,0	16,0	56,0	6,0	10,5	20,0	70,0
1000	630	0,31500	100-5-100	9072	11340	13608	3,0	4,5	11,0	32,0	4,0	7,0	14,0	48,0	5,0	9,0	16,0	64,0	6,0	10,5	20,0	80,0
1000	750	0,37500	100-5-100	10800	13500	16200	3,0	4,5	11,0	36,0	4,0	7,0	14,0	54,0	5,0	9,0	16,0	72,0	6,0	10,5	20,0	90,0
1000	800	0,40000	100-5-100	11520	14400	17280	3,0	4,5	11,0	37,0	4,0	7,0	14,0	56,0	5,0	9,0	16,0	74,0	6,0	10,5	20,0	93,0
1000	900	0,45000	100-5-100	12960	16200	19440	3,0	4,5	11,0	40,0	4,0	7,0	14,0	60,0	5,0	9,0	16,0	80,0	6,0	10,5	20,0	100,0
1000	1000	0,50000	100-5-100	14400	18000	21600	3,0	4,5	11,0	43,0	4,0	7,0	14,0	65,0	5,0	9,0	16,0	86,0	6,0	10,5	20,0	108,0
1200	500	0,30000	100-6-100	8640	10800	12960	3,0	4,5	11,0	32,0	4,0	7,0	14,0	48,0	5,0	9,0	16,0	64,0	6,0	10,5	20,0	80,0
1200	630	0,37800	100-6-100	10886	13608	16330	3,0	4,5	11,0	37,0	4,0	7,0	14,0	56,0	5,0	9,0	16,0	74,0	6,0	10,5	20,0	93,0
1200	750	0,45000	100-6-100	12960	16200	19440	3,0	4,5	11,0	41,0	4,0	7,0	14,0	62,0	5,0	9,0	16,0	82,0	6,0	10,5	20,0	103,0

1200	800	0,48000	100-6-100	13824	17280	20736	3,0	4,5	11,0	43,0	4,0	7,0	14,0	65,0	5,0	9,0	16,0	86,0	6,0	10,5	20,0	108,0
1200	900	0,54000	100-6-100	15552	19440	23328	3,0	4,5	11,0	47,0	4,0	7,0	14,0	71,0	5,0	9,0	16,0	94,0	6,0	10,5	20,0	118,0
1200	1000	0,60000	100-6-100	17280	21600	25920	3,0	4,5	11,0	50,0	4,0	7,0	14,0	75,0	5,0	9,0	16,0	100,0	6,0	10,5	20,0	125,0
1200	1200	0,72000	100-6-100	20736	25920	31104	3,0	4,5	11,0	58,0	4,0	7,0	14,0	87,0	5,0	9,0	16,0	116,0	6,0	10,5	20,0	145,0
1200	500	0,20000	200-4-100	5760	7200	8640	5,0	12,0	17,0	40,0	6,0	14,0	25,0	60,0	8,0	21,0	30,0	80,0	10,0	24,0	34,0	100,0
1200	630	0,25200	200-4-100	7258	9072	10886	5,0	12,0	17,0	47,0	6,0	14,0	25,0	71,0	8,0	21,0	30,0	94,0	10,0	24,0	34,0	118,0
1200	750	0,30000	200-4-100	8640	10800	12960	5,0	12,0	17,0	53,0	6,0	14,0	25,0	80,0	8,0	21,0	30,0	106,0	10,0	24,0	34,0	133,0
1200	800	0,32000	200-4-100	9216	11520	13824	5,0	12,0	17,0	56,0	6,0	14,0	25,0	84,0	8,0	21,0	30,0	112,0	10,0	24,0	34,0	140,0
1200	900	0,36000	200-4-100	10368	12960	15552	5,0	12,0	17,0	61,0	6,0	14,0	25,0	92,0	8,0	21,0	30,0	122,0	10,0	24,0	34,0	153,0
1200	1000	0,40000	200-4-100	11520	14400	17280	5,0	12,0	17,0	66,0	6,0	14,0	25,0	99,0	8,0	21,0	30,0	132,0	10,0	24,0	34,0	165,0
1200	1200	0,48000	200-4-100	13824	17280	20736	5,0	12,0	17,0	76,0	6,0	14,0	25,0	114,0	8,0	21,0	30,0	152,0	10,0	24,0	34,0	190,0
1250	500	0,37500	100-5-150	10800	13500	16200	2,0	3,0	8,0	30,0	3,0	5,0	10,0	45,0	4,0	7,5	12,0	60,0	5,0	8,5	15,0	75,0
1250	630	0,47250	100-5-150	13608	17010	20412	2,0	3,0	8,0	34,0	3,0	5,0	10,0	51,0	4,0	7,5	12,0	68,0	5,0	8,5	15,0	85,0
1250	750	0,56250	100-5-150	16200	20250	24300	2,0	3,0	8,0	37,0	3,0	5,0	10,0	56,0	4,0	7,5	12,0	74,0	5,0	8,5	15,0	93,0
1250	800	0,60000	100-5-150	17280	21600	25920	2,0	3,0	8,0	39,0	3,0	5,0	10,0	59,0	4,0	7,5	12,0	78,0	5,0	8,5	15,0	98,0
1250	900	0,67500	100-5-150	19440	24300	29160	2,0	3,0	8,0	42,0	3,0	5,0	10,0	63,0	4,0	7,5	12,0	84,0	5,0	8,5	15,0	105,0
1250	1000	0,75000	100-5-150	21600	27000	32400	2,0	3,0	8,0	45,0	3,0	5,0	10,0	68,0	4,0	7,5	12,0	90,0	5,0	8,5	15,0	113,0
1250	1250	0,93750	100-5-150	27000	33750	40500	2,0	3,0	8,0	53,0	3,0	5,0	10,0	80,0	4,0	7,5	12,0	106,0	5,0	8,5	15,0	133,0
1400	630	0,44100	100-7-100	12701	15876	19051	3,0	4,5	11,0	43,0	4,0	7,0	14,0	65,0	5,0	9,0	16,0	86,0	6,0	10,5	20,0	108,0
1400	750	0,52500	100-7-100	15120	18900	22680	3,0	4,5	11,0	47,0	4,0	7,0	14,0	71,0	5,0	9,0	16,0	94,0	6,0	10,5	20,0	118,0
1400	800	0,56000	100-7-100	16128	20160	24192	3,0	4,5	11,0	49,0	4,0	7,0	14,0	74,0	5,0	9,0	16,0	98,0	6,0	10,5	20,0	123,0

1400	900	0,63000	100-7-100	18144	22680	27216	3,0	4,5	11,0	54,0	4,0	7,0	14,0	81,0	5,0	9,0	16,0	108,	135,
1400	1000	0,70000	100-7-100	20160	25200	30240	3,0	4,5	11,0	58,0	4,0	7,0	14,0	87,0	5,0	9,0	16,0	116,	145,
1400	1250	0,87500	100-7-100	25200	31500	37800	3,0	4,5	11,0	68,0	4,0	7,0	14,0	102,0	5,0	9,0	16,0	136,	170,
1400	1400	0,98000	100-7-100	28224	35280	42336	3,0	4,5	11,0	74,0	4,0	7,0	14,0	111,0	5,0	9,0	16,0	148,	185,
1400	630	0,37800	200-4-150	10886	13608	16330	4,0	9,0	13,0	48,0	5,0	11,0	18,0	72,0	6,0	15,0	25,0	96,0	120,
1400	750	0,45000	200-4-150	12960	16200	19440	4,0	9,0	13,0	55,0	5,0	11,0	18,0	83,0	6,0	15,0	25,0	110,	138,
1400	800	0,48000	200-4-150	13824	17280	20736	4,0	9,0	13,0	57,0	5,0	11,0	18,0	86,0	6,0	15,0	25,0	114,	143,
1400	900	0,54000	200-4-150	15552	19440	23328	4,0	9,0	13,0	62,0	5,0	11,0	18,0	93,0	6,0	15,0	25,0	124,	155,
1400	1000	0,60000	200-4-150	17280	21600	25920	4,0	9,0	13,0	67,0	5,0	11,0	18,0	101,0	6,0	15,0	25,0	134,	168,
1400	1250	0,75000	200-4-150	21600	27000	32400	4,0	9,0	13,0	80,0	5,0	11,0	18,0	120,0	6,0	15,0	25,0	160,	200,
1400	1400	0,84000	200-4-150	24192	30240	36288	4,0	9,0	13,0	88,0	5,0	11,0	18,0	132,0	6,0	15,0	25,0	176,	220,
1500	630	0,56700	100-6-150	16330	20412	24494	2,0	3,0	8,0	39,0	3,0	5,0	10,0	59,0	4,0	7,5	12,0	78,0	98,0
1500	750	0,67500	100-6-150	19440	24300	29160	2,0	3,0	8,0	44,0	3,0	5,0	10,0	66,0	4,0	7,5	12,0	88,0	110,
1500	800	0,72000	100-6-150	20736	25920	31104	2,0	3,0	8,0	45,0	3,0	5,0	10,0	68,0	4,0	7,5	12,0	90,0	113,
1500	900	0,81000	100-6-150	23328	29160	34992	2,0	3,0	8,0	49,0	3,0	5,0	10,0	74,0	4,0	7,5	12,0	98,0	123,
1500	1000	0,90000	100-6-150	25920	32400	38880	2,0	3,0	8,0	53,0	3,0	5,0	10,0	80,0	4,0	7,5	12,0	106,	133,
1500	1250	1,12500	100-6-150	32400	40500	48600	2,0	3,0	8,0	62,0	3,0	5,0	10,0	93,0	4,0	7,5	12,0	124,	155,
1500	1400	1,26000	100-6-150	36288	45360	54432	2,0	3,0	8,0	67,0	3,0	5,0	10,0	101,0	4,0	7,5	12,0	134,	168,
1500	1500	1,35000	100-6-150	38880	48600	58320	2,0	3,0	8,0	71,0	3,0	5,0	10,0	107,0	4,0	7,5	12,0	142,	178,
1500	630	0,31500	200-5-100	9072	11340	13608	5,0	12,0	17,0	57,0	6,0	14,0	25,0	86,0	8,0	21,0	30,0	114,	143,

1500	750	0,37500	200-5-100	10800	13500	16200	5,0	12,0	17,0	65,0	6,0	14,0	25,0	98,0	8,0	21,0	30,0	130,0	10,0	24,0	34,0	0	163,0
1500	800	0,40000	200-5-100	11520	14400	17280	5,0	12,0	17,0	68,0	6,0	14,0	25,0	102,0	8,0	21,0	30,0	136,0	10,0	24,0	34,0	0	170,0
1500	900	0,45000	200-5-100	12960	16200	19440	5,0	12,0	17,0	74,0	6,0	14,0	25,0	111,0	8,0	21,0	30,0	148,0	10,0	24,0	34,0	0	185,0
1500	1000	0,50000	200-5-100	14400	18000	21600	5,0	12,0	17,0	80,0	6,0	14,0	25,0	120,0	8,0	21,0	30,0	160,0	10,0	24,0	34,0	0	200,0
1500	1250	0,62500	200-5-100	18000	22500	27000	5,0	12,0	17,0	96,0	6,0	14,0	25,0	144,0	8,0	21,0	30,0	192,0	10,0	24,0	34,0	0	240,0
1500	1400	0,70000	200-5-100	20160	25200	30240	5,0	12,0	17,0	105,0	6,0	14,0	25,0	158,0	8,0	21,0	30,0	210,0	10,0	24,0	34,0	0	263,0
1500	1500	0,75000	200-5-100	21600	27000	32400	5,0	12,0	17,0	111,0	6,0	14,0	25,0	167,0	8,0	21,0	30,0	222,0	10,0	24,0	34,0	0	282,0
1600	630	0,50400	100-8-100	14515	18144	21773	3,0	4,5	11,0	48,0	4,0	7,0	14,0	72,0	5,0	9,0	16,0	96,0	6,0	10,5	20,0	0	120,0
1600	750	0,60000	100-8-100	17280	21600	25920	3,0	4,5	11,0	53,0	4,0	7,0	14,0	80,0	5,0	9,0	16,0	106,0	6,0	10,5	20,0	0	133,0
1600	800	0,64000	100-8-100	18432	23040	27648	3,0	4,5	11,0	56,0	4,0	7,0	14,0	84,0	5,0	9,0	16,0	112,0	6,0	10,5	20,0	0	140,0
1600	900	0,72000	100-8-100	20736	25920	31104	3,0	4,5	11,0	60,0	4,0	7,0	14,0	90,0	5,0	9,0	16,0	120,0	6,0	10,5	20,0	0	150,0
1600	1000	0,80000	100-8-100	23040	28800	34560	3,0	4,5	11,0	65,0	4,0	7,0	14,0	98,0	5,0	9,0	16,0	130,0	6,0	10,5	20,0	0	163,0
1600	1250	1,00000	100-8-100	28800	36000	43200	3,0	4,5	11,0	76,0	4,0	7,0	14,0	114,0	5,0	9,0	16,0	152,0	6,0	10,5	20,0	0	190,0
1600	1400	1,12000	100-8-100	32256	40320	48384	3,0	4,5	11,0	83,0	4,0	7,0	14,0	125,0	5,0	9,0	16,0	166,0	6,0	10,5	20,0	0	208,0
1600	1500	1,20000	100-8-100	34560	43200	51840	3,0	4,5	11,0	87,0	4,0	7,0	14,0	131,0	5,0	9,0	16,0	174,0	6,0	10,5	20,0	0	218,0
1600	1600	1,28000	100-8-100	36864	46080	55296	3,0	4,5	11,0	92,0	4,0	7,0	14,0	138,0	5,0	9,0	16,0	184,0	6,0	10,5	20,0	0	230,0
1600	630	0,50400	200-4-200	14515	18144	21773	3,0	6,5	9,0	50,0	4,0	9,0	15,0	75,0	5,0	11,0	18,5	100,0	6,0	13,0	21,0	0	125,0
1600	750	0,60000	200-4-200	17280	21600	25920	3,0	6,5	9,0	56,0	4,0	9,0	15,0	84,0	5,0	11,0	18,5	112,0	6,0	13,0	21,0	0	140,0
1600	800	0,64000	200-4-200	18432	23040	27648	3,0	6,5	9,0	59,0	4,0	9,0	15,0	89,0	5,0	11,0	18,5	118,0	6,0	13,0	21,0	0	148,0

1600	900	0,72000	200-4-200	20736	25920	31104	3,0	6,5	9,0	64,0	4,0	9,0	15,0	96,0	5,0	11,0	18,5	128,0	0	160,0
1600	1000	0,80000	200-4-200	23040	28800	34560	3,0	6,5	9,0	69,0	4,0	9,0	15,0	104,0	5,0	11,0	18,5	138,0	0	173,0
1600	1250	1,00000	200-4-200	28800	36000	43200	3,0	6,5	9,0	81,0	4,0	9,0	15,0	122,0	5,0	11,0	18,5	162,0	0	203,0
1600	1400	1,12000	200-4-200	32256	40320	48384	3,0	6,5	9,0	89,0	4,0	9,0	15,0	134,0	5,0	11,0	18,5	178,0	0	223,0
1600	1500	1,20000	200-4-200	34560	43200	51840	3,0	6,5	9,0	94,0	4,0	9,0	15,0	141,0	5,0	11,0	18,5	188,0	0	235,0
1600	1600	1,28000	200-4-200	36864	46080	55296	3,0	6,5	9,0	99,0	4,0	9,0	15,0	149,0	5,0	11,0	18,5	198,0	0	248,0
1800	750	0,67500	100-9-100	19440	24300	29160	3,0	4,5	11,0	59,0	4,0	7,0	14,0	89,0	5,0	9,0	16,0	118,0	0	148,0
1800	800	0,72000	100-9-100	20736	25920	31104	3,0	4,5	11,0	62,0	4,0	7,0	14,0	93,0	5,0	9,0	16,0	124,0	0	155,0
1800	900	0,81000	100-9-100	23328	29160	34992	3,0	4,5	11,0	67,0	4,0	7,0	14,0	101,0	5,0	9,0	16,0	134,0	0	168,0
1800	1000	0,90000	100-9-100	25920	32400	38880	3,0	4,5	11,0	72,0	4,0	7,0	14,0	108,0	5,0	9,0	16,0	144,0	0	180,0
1800	1250	1,12500	100-9-100	32400	40500	48600	3,0	4,5	11,0	84,0	4,0	7,0	14,0	126,0	5,0	9,0	16,0	168,0	0	210,0
1800	1400	1,26000	100-9-100	36288	45360	54432	3,0	4,5	11,0	92,0	4,0	7,0	14,0	138,0	5,0	9,0	16,0	184,0	0	230,0
1800	1500	1,35000	100-9-100	38880	48600	58320	3,0	4,5	11,0	97,0	4,0	7,0	14,0	146,0	5,0	9,0	16,0	194,0	0	243,0
1800	1600	1,44000	100-9-100	41472	51840	62208	3,0	4,5	11,0	102,0	4,0	7,0	14,0	153,0	5,0	9,0	16,0	204,0	0	255,0
1800	1800	1,62000	100-9-100	46656	58320	69984	3,0	4,5	11,0	112,0	4,0	7,0	14,0	168,0	5,0	9,0	16,0	224,0	0	285,0
1800	750	0,45000	200-6-100	12960	16200	19440	5,0	12,0	17,0	77,0	6,0	14,0	25,0	116,0	8,0	21,0	30,0	154,0	0	193,0
1800	800	0,48000	200-6-100	13824	17280	20736	5,0	12,0	17,0	80,0	6,0	14,0	25,0	120,0	8,0	21,0	30,0	160,0	0	200,0
1800	900	0,54000	200-6-100	15552	19440	23328	5,0	12,0	17,0	88,0	6,0	14,0	25,0	132,0	8,0	21,0	30,0	176,0	0	220,0
1800	1000	0,60000	200-6-100	17280	21600	25920	5,0	12,0	17,0	95,0	6,0	14,0	25,0	143,0	8,0	21,0	30,0	190,0	0	238,0

1800	1250	0,750000	200-6-100	21600	27000	32400	5,0	12,0	17,0	113,0	6,0	14,0	25,0	170,0	8,0	21,0	30,0	226,0	10,0	24,0	34,0	286,0
1800	1400	0,840000	200-6-100	24192	30240	36288	5,0	12,0	17,0	124,0	6,0	14,0	25,0	186,0	8,0	21,0	30,0	248,0	10,0	24,0	34,0	314,0
1800	1500	0,900000	200-6-100	25920	32400	38880	5,0	12,0	17,0	131,0	6,0	14,0	25,0	197,0	8,0	21,0	30,0	262,0	10,0	24,0	34,0	332,0
1800	1600	0,960000	200-6-100	27648	34560	41472	5,0	12,0	17,0	138,0	6,0	14,0	25,0	207,0	8,0	21,0	30,0	280,0	10,0	24,0	34,0	351,0
1800	1800	1,080000	200-6-100	31104	38880	46656	5,0	12,0	17,0	153,0	6,0	14,0	25,0	230,0	8,0	21,0	30,0	310,0	10,0	24,0	34,0	387,0
2000	800	0,800000	100-10-100	23040	28800	34560	3,0	4,5	11,0	68,0	4,0	7,0	14,0	102,0	5,0	9,0	16,0	136,0	6,0	10,5	20,0	170,0
2000	900	0,900000	100-10-100	25920	32400	38880	3,0	4,5	11,0	73,0	4,0	7,0	14,0	110,0	5,0	9,0	16,0	146,0	6,0	10,5	20,0	183,0
2000	1000	1,000000	100-10-100	28800	36000	43200	3,0	4,5	11,0	79,0	4,0	7,0	14,0	119,0	5,0	9,0	16,0	158,0	6,0	10,5	20,0	198,0
2000	1250	1,250000	100-10-100	36000	45000	54000	3,0	4,5	11,0	93,0	4,0	7,0	14,0	140,0	5,0	9,0	16,0	186,0	6,0	10,5	20,0	233,0
2000	1400	1,400000	100-10-100	40320	50400	60480	3,0	4,5	11,0	101,0	4,0	7,0	14,0	152,0	5,0	9,0	16,0	202,0	6,0	10,5	20,0	253,0
2000	1500	1,500000	100-10-100	43200	54000	64800	3,0	4,5	11,0	107,0	4,0	7,0	14,0	161,0	5,0	9,0	16,0	214,0	6,0	10,5	20,0	268,0
2000	1600	1,600000	100-10-100	46080	57600	69120	3,0	4,5	11,0	112,0	4,0	7,0	14,0	168,0	5,0	9,0	16,0	224,0	6,0	10,5	20,0	285,0
2000	1800	1,800000	100-10-100	51840	64800	77760	3,0	4,5	11,0	123,0	4,0	7,0	14,0	185,0	5,0	9,0	16,0	246,0	6,0	10,5	20,0	313,0
2000	2000	2,000000	100-10-100	57600	72000	86400	3,0	4,5	11,0	134,0	4,0	7,0	14,0	201,0	5,0	9,0	16,0	268,0	6,0	10,5	20,0	341,0
2000	800	0,800000	200-5-200	23040	28800	34560	3,0	6,5	9,0	72,0	4,0	9,0	15,0	108,0	5,0	11,0	18,5	144,0	6,0	13,0	21,0	180,0
2000	900	0,900000	200-5-200	25920	32400	38880	3,0	6,5	9,0	78,0	4,0	9,0	15,0	117,0	5,0	11,0	18,5	156,0	6,0	13,0	21,0	195,0
2000	1000	1,000000	200-5-200	28800	36000	43200	3,0	6,5	9,0	84,0	4,0	9,0	15,0	126,0	5,0	11,0	18,5	168,0	6,0	13,0	21,0	210,0
2000	1250	1,250000	200-5-200	36000	45000	54000	3,0	6,5	9,0	99,0	4,0	9,0	15,0	149,0	5,0	11,0	18,5	198,0	6,0	13,0	21,0	248,0
2000	1400	1,400000	200-5-200	40320	50400	60480	3,0	6,5	9,0	109,0	4,0	9,0	15,0	164,0	5,0	11,0	18,5	218,0	6,0	13,0	21,0	276,0

[illegible]

Tabela nr 1 DiaL=1500 2000mm

Wymiary [mm]		Powierzchnia [m2]	Kulisy [Grubość, ilość, odstęp]	Wydajność [m3/h]				1500			1750			Masa			2000			Masa
				8 [m/s]	10 [m/s]	12 [m/s]	500Hz	125Hz	250Hz	500Hz	125Hz	250Hz	500Hz	125Hz	250Hz	500Hz	125Hz	250Hz	500Hz	
B	H	F	G _{n,S}	100-1-150	540	675	810	6,0	9,5	17,0	16,0	7,0	11,0	18,0	19,0	8,0	12,0	19,5	21,0	
250	125	0,01875			691	864	1037	6,0	9,5	17,0	16,0	7,0	11,0	18,0	19,0	8,0	12,0	19,5	21,0	
250	160	0,02400		100-1-150																
250	200	0,03000		100-1-150		864	1080	6,0	9,5	17,0	19,0	7,0	11,0	18,0	22,0	8,0	12,0	19,5	21,0	
250	250	0,03750		100-1-150	1080	1350	1620	6,0	9,5	17,0	19,0	7,0	11,0	18,0	22,0	8,0	12,0	19,5	25,0	
315	125	0,01438		100-2-57,5	414	518	621	9,0	21,0	31,0	22,0	10,0	24,0	35,0	26,0	11,0	27,0	40,0	29,0	
315	160	0,01840		100-2-57,5	530	662	795	9,0	21,0	31,0	22,0	10,0	24,0	35,0	26,0	11,0	27,0	40,0	29,0	
315	200	0,02300		100-2-57,5	662	828	994	9,0	21,0	31,0	25,0	10,0	24,0	35,0	29,0	11,0	27,0	40,0	33,0	
315	250	0,02875		100-2-57,5	828	1035	1242	9,0	21,0	31,0	28,0	10,0	24,0	35,0	33,0	11,0	27,0	40,0	37,0	
315	315	0,03623		100-2-57,5	1043	1304	1565	9,0	21,0	31,0	32,0	10,0	24,0	35,0	37,0	11,0	27,0	40,0	42,0	
400	160	0,03200		100-2-100	922	1152	1382	7,0	12,0	23,0	25,0	8,0	14,0	24,0	29,0	9,0	16,0	26,0	33,0	
400	200	0,04000		100-2-100	1152	1440	1728	7,0	12,0	23,0	28,0	8,0	14,0	24,0	33,0	9,0	16,0	26,0	37,0	
400	250	0,05000		100-2-100	1440	1800	2160	7,0	12,0	23,0	29,0	8,0	14,0	24,0	33,0	9,0	16,0	26,0	38,0	
400	315	0,06300		100-2-100	1814	2268	2722	7,0	12,0	23,0	32,0	8,0	14,0	24,0	37,0	9,0	16,0	26,0	42,0	
400	400	0,08000		100-2-100	2304	2880	3456	7,0	12,0	23,0	38,0	8,0	14,0	24,0	44,0	9,0	16,0	26,0	50,0	
500	200	0,06000		100-2-150	1728	2160	2592	6,0	9,5	17,0	29,0	7,0	11,0	18,0	33,0	8,0	12,0	19,5	38,0	
500	250	0,07500		100-2-150	2160	2700	3240	6,0	9,5	17,0	32,0	7,0	11,0	18,0	37,0	8,0	12,0	19,5	42,0	
500	315	0,09450		100-2-150	2722	3402	4082	6,0	9,5	17,0	35,0	7,0	11,0	18,0	40,0	8,0	12,0	19,5	46,0	
500	400	0,12000		100-2-150	3456	4320	5184	6,0	9,5	17,0	41,0	7,0	11,0	18,0	47,0	8,0	12,0	19,5	54,0	

500	500	0,15000	100-2-150	4320	5400	6480	6,0	9,5	17,0	44,0	7,0	11,0	18,0	51,0	8,0	12,0	19,5	58,0
500	200	0,04000	100-3-66,7	1152	1440	1728	8,0	18,0	29,0	35,0	9,0	17,0	33,0	40,0	10,0	21,0	38,0	46,0
500	250	0,05000	100-3-66,7	1440	1800	2160	8,0	18,0	29,0	38,0	9,0	17,0	33,0	44,0	10,0	21,0	38,0	50,0
500	315	0,06300	100-3-66,7	1814	2268	2722	8,0	18,0	29,0	44,0	9,0	17,0	33,0	51,0	10,0	21,0	38,0	58,0
500	400	0,08000	100-3-66,7	2304	2880	3456	8,0	18,0	29,0	47,0	9,0	17,0	33,0	54,0	10,0	21,0	38,0	62,0
500	500	0,10000	100-3-66,7	2880	3600	4320	8,0	18,0	29,0	56,0	9,0	17,0	33,0	65,0	10,0	21,0	38,0	74,0
630	250	0,05750	100-4-57,5	1656	2070	2484	9,0	21,0	31,0	47,0	10,0	24,0	35,0	54,0	11,0	27,0	40,0	62,0
630	315	0,07245	100-4-57,5	2087	2608	3130	9,0	21,0	31,0	53,0	10,0	24,0	35,0	62,0	11,0	27,0	40,0	70,0
630	400	0,09200	100-4-57,5	2650	3312	3974	9,0	21,0	31,0	59,0	10,0	24,0	35,0	69,0	11,0	27,0	40,0	78,0
630	500	0,11500	100-4-57,5	3312	4140	4968	9,0	21,0	31,0	68,0	10,0	24,0	35,0	79,0	11,0	27,0	40,0	90,0
630	630	0,14490	100-4-57,5	4173	5216	6260	9,0	21,0	31,0	78,0	10,0	24,0	35,0	90,0	11,0	27,0	40,0	103,0
750	250	0,11250	100-3-150	3240	4050	4860	6,0	9,5	17,0	44,0	7,0	11,0	18,0	51,0	8,0	12,0	19,5	58,0
750	315	0,14175	100-3-150	4082	5103	6124	6,0	9,5	17,0	47,0	7,0	11,0	18,0	55,0	8,0	12,0	19,5	62,0
750	400	0,18000	100-3-150	5184	6480	7776	6,0	9,5	17,0	53,0	7,0	11,0	18,0	62,0	8,0	12,0	19,5	70,0
750	500	0,22500	100-3-150	6480	8100	9720	6,0	9,5	17,0	59,0	7,0	11,0	18,0	69,0	8,0	12,0	19,5	78,0
750	630	0,28350	100-3-150	8165	10206	12247	6,0	9,5	17,0	69,0	7,0	11,0	18,0	80,0	8,0	12,0	19,5	91,0
750	750	0,33750	100-3-150	9720	12150	14580	6,0	9,5	17,0	78,0	7,0	11,0	18,0	90,0	8,0	12,0	19,5	103,0
750	250	0,06250	100-5-50	1800	2250	2700	10,0	22,0	34,0	56,0	11,0	25,0	39,0	65,0	12,0	28,0	43,0	74,0
750	315	0,07875	100-5-50	2268	2835	3402	10,0	22,0	34,0	62,0	11,0	25,0	39,0	72,0	12,0	28,0	43,0	82,0
750	400	0,10000	100-5-50	2880	3600	4320	10,0	22,0	34,0	71,0	11,0	25,0	39,0	83,0	12,0	28,0	43,0	94,0
750	500	0,12500	100-5-50	3600	4500	5400	10,0	22,0	34,0	80,0	11,0	25,0	39,0	93,0	12,0	28,0	43,0	106,0
750	630	0,15750	100-5-50	4536	5670	6804	10,0	22,0	34,0	93,0	11,0	25,0	39,0	108,0	12,0	28,0	43,0	123,0
750	750	0,18750	100-5-50	5400	6750	8100	10,0	22,0	34,0	105,0	11,0	25,0	39,0	122,0	12,0	28,0	43,0	139,0
800	315	0,12600	100-4-100	3629	4536	5443	7,0	12,0	23,0	56,0	8,0	14,0	24,0	65,0	9,0	16,0	26,0	74,0
800	400	0,16000	100-4-100	4608	5760	6912	7,0	12,0	23,0	62,0	8,0	14,0	24,0	72,0	9,0	16,0	26,0	82,0
800	500	0,20000	100-4-100	5760	7200	8640	7,0	12,0	23,0	72,0	8,0	14,0	24,0	83,0	9,0	16,0	26,0	95,0
800	630	0,25200	100-4-100	7258	9072	10886	7,0	12,0	23,0	81,0	8,0	14,0	24,0	94,0	9,0	16,0	26,0	107,0
800	750	0,30000	100-4-100	8640	10800	12960	7,0	12,0	23,0	93,0	8,0	14,0	24,0	108,0	9,0	16,0	26,0	123,0
800	800	0,32000	100-4-100	9216	11520	13824	7,0	12,0	23,0	96,0	8,0	14,0	24,0	112,0	9,0	16,0	26,0	127,0
800	315	0,12600	200-2-200	3629	4536	5443	8,0	15,0	24,5	56,0	10,0	17,5	27,0	65,0	11,0	20,0	30,0	74,0
800	400	0,16000	200-2-200	4608	5760	6912	8,0	15,0	24,5	65,0	10,0	17,5	27,0	76,0	11,0	20,0	30,0	86,0

800	500	0,20000	200-2-200	5760	7200	8640	8,0	15,0	24,5	75,0	10,0	17,5	27,0	87,0	11,0	20,0	30,0	99,0
800	630	0,25200	200-2-200	7258	9072	10886	8,0	15,0	24,5	84,0	10,0	17,5	27,0	97,0	11,0	20,0	30,0	111,0
800	750	0,30000	200-2-200	8640	10800	12960	8,0	15,0	24,5	96,0	10,0	17,5	27,0	111,0	11,0	20,0	30,0	127,0
800	800	0,32000	200-2-200	9216	11520	13824	8,0	15,0	24,5	99,0	10,0	17,5	27,0	115,0	11,0	20,0	30,0	131,0
900	400	0,12000	100-6-50	3456	4320	5184	10,0	22,0	34,0	84,0	11,0	25,0	39,0	97,0	12,0	28,0	43,0	111,0
900	500	0,15000	100-6-50	4320	5400	6480	10,0	22,0	34,0	93,0	11,0	25,0	39,0	108,0	12,0	28,0	43,0	123,0
900	630	0,18900	100-6-50	5443	6804	8165	10,0	22,0	34,0	108,0	11,0	25,0	39,0	125,0	12,0	28,0	43,0	143,0
900	750	0,22500	100-6-50	6480	8100	9720	10,0	22,0	34,0	120,0	11,0	25,0	39,0	140,0	12,0	28,0	43,0	159,0
900	800	0,24000	100-6-50	6912	8640	10368	10,0	22,0	34,0	126,0	11,0	25,0	39,0	147,0	12,0	28,0	43,0	167,0
900	900	0,27000	100-6-50	7776	9720	11664	10,0	22,0	34,0	138,0	11,0	25,0	39,0	161,0	12,0	28,0	43,0	183,0
900	400	0,12000	200-3-100	3456	4320	5184	12,0	26,0	39,0	84,0	13,5	31,0	43,0	97,0	14,0	35,0	46,0	111,0
900	500	0,15000	200-3-100	4320	5400	6480	12,0	26,0	39,0	96,0	13,5	31,0	43,0	111,0	14,0	35,0	46,0	127,0
900	630	0,18900	200-3-100	5443	6804	8165	12,0	26,0	39,0	114,0	13,5	31,0	43,0	132,0	14,0	35,0	46,0	151,0
900	750	0,22500	200-3-100	6480	8100	9720	12,0	26,0	39,0	126,0	13,5	31,0	43,0	147,0	14,0	35,0	46,0	167,0
900	800	0,24000	200-3-100	6912	8640	10368	12,0	26,0	39,0	132,0	13,5	31,0	43,0	154,0	14,0	35,0	46,0	175,0
900	900	0,27000	200-3-100	7776	9720	11664	12,0	26,0	39,0	144,0	13,5	31,0	43,0	168,0	14,0	35,0	46,0	191,0
1000	400	0,24000	100-4-150	6912	8640	10368	6,0	9,5	17,0	69,0	7,0	11,0	18,0	80,0	8,0	12,0	19,5	91,0
1000	500	0,30000	100-4-150	8640	10800	12960	6,0	9,5	17,0	75,0	7,0	11,0	18,0	87,0	8,0	12,0	19,5	99,0
1000	630	0,37800	100-4-150	10886	13608	16330	6,0	9,5	17,0	87,0	7,0	11,0	18,0	101,0	8,0	12,0	19,5	115,0
1000	750	0,45000	100-4-150	12960	16200	19440	6,0	9,5	17,0	96,0	7,0	11,0	18,0	112,0	8,0	12,0	19,5	127,0
1000	800	0,48000	100-4-150	13824	17280	20736	6,0	9,5	17,0	99,0	7,0	11,0	18,0	115,0	8,0	12,0	19,5	131,0
1000	900	0,54000	100-4-150	15552	19440	23328	6,0	9,5	17,0	109,0	7,0	11,0	18,0	126,0	8,0	12,0	19,5	144,0
1000	1000	0,60000	100-4-150	17280	21600	25920	6,0	9,5	17,0	118,0	7,0	11,0	18,0	137,0	8,0	12,0	19,5	156,0
1000	400	0,20000	100-5-100	5760	7200	8640	7,0	12,0	23,0	78,0	8,0	14,0	24,0	90,0	9,0	16,0	26,0	103,0
1000	500	0,25000	100-5-100	7200	9000	10800	7,0	12,0	23,0	87,0	8,0	14,0	24,0	101,0	9,0	16,0	26,0	115,0
1000	630	0,31500	100-5-100	9072	11340	13608	7,0	12,0	23,0	99,0	8,0	14,0	24,0	115,0	9,0	16,0	26,0	131,0
1000	750	0,37500	100-5-100	10800	13500	16200	7,0	12,0	23,0	111,0	8,0	14,0	24,0	129,0	9,0	16,0	26,0	147,0
1000	800	0,40000	100-5-100	11520	14400	17280	7,0	12,0	23,0	114,0	8,0	14,0	24,0	133,0	9,0	16,0	26,0	151,0
1000	900	0,45000	100-5-100	12960	16200	19440	7,0	12,0	23,0	124,0	8,0	14,0	24,0	144,0	9,0	16,0	26,0	164,0
1000	1000	0,50000	100-5-100	14400	18000	21600	7,0	12,0	23,0	133,0	8,0	14,0	24,0	154,0	9,0	16,0	26,0	176,0
1200	500	0,30000	100-6-100	8640	10800	12960	7,0	12,0	23,0	99,0	8,0	14,0	24,0	115,0	9,0	16,0	26,0	131,0

1200	630	0,37800	100-6-100	10886	13608	16330	7,0	12,0	23,0	114,0	8,0	14,0	24,0	133,0	9,0	16,0	26,0	151,0
1200	750	0,45000	100-6-100	12960	16200	19440	7,0	12,0	23,0	127,0	8,0	14,0	24,0	147,0	9,0	16,0	26,0	168,0
1200	800	0,48000	100-6-100	13824	17280	20736	7,0	12,0	23,0	133,0	8,0	14,0	24,0	154,0	9,0	16,0	26,0	176,0
1200	900	0,54000	100-6-100	15552	19440	23328	7,0	12,0	23,0	145,0	8,0	14,0	24,0	168,0	9,0	16,0	26,0	192,0
1200	1000	0,60000	100-6-100	17280	21600	25920	7,0	12,0	23,0	154,0	8,0	14,0	24,0	179,0	9,0	16,0	26,0	204,0
1200	1200	0,72000	100-6-100	20736	25920	31104	7,0	12,0	23,0	178,0	8,0	14,0	24,0	207,0	9,0	16,0	26,0	236,0
1200	500	0,20000	200-4-100	5760	7200	8640	12,0	26,0	39,0	123,0	13,5	31,0	43,0	143,0	14,0	35,0	46,0	163,0
1200	630	0,25200	200-4-100	7258	9072	10886	12,0	26,0	39,0	144,0	13,5	31,0	43,0	168,0	14,0	35,0	46,0	191,0
1200	750	0,30000	200-4-100	8640	10800	12960	12,0	26,0	39,0	163,0	13,5	31,0	43,0	189,0	14,0	35,0	46,0	216,0
1200	800	0,32000	200-4-100	9216	11520	13824	12,0	26,0	39,0	172,0	13,5	31,0	43,0	200,0	14,0	35,0	46,0	228,0
1200	900	0,36000	200-4-100	10368	12960	15552	12,0	26,0	39,0	187,0	13,5	31,0	43,0	217,0	14,0	35,0	46,0	248,0
1200	1000	0,40000	200-4-100	11520	14400	17280	12,0	26,0	39,0	202,0	13,5	31,0	43,0	235,0	14,0	35,0	46,0	268,0
1200	1200	0,48000	200-4-100	13824	17280	20736	12,0	26,0	39,0	232,0	13,5	31,0	43,0	270,0	14,0	35,0	46,0	308,0
1250	500	0,37500	100-5-150	10800	13500	16200	6,0	9,5	17,0	93,0	7,0	11,0	18,0	108,0	8,0	12,0	19,5	123,0
1250	630	0,47250	100-5-150	13608	17010	20412	6,0	9,5	17,0	106,0	7,0	11,0	18,0	123,0	8,0	12,0	19,5	140,0
1250	750	0,56250	100-5-150	16200	20250	24300	6,0	9,5	17,0	115,0	7,0	11,0	18,0	133,0	8,0	12,0	19,5	152,0
1250	800	0,60000	100-5-150	17280	21600	25920	6,0	9,5	17,0	121,0	7,0	11,0	18,0	140,0	8,0	12,0	19,5	160,0
1250	900	0,67500	100-5-150	19440	24300	29160	6,0	9,5	17,0	130,0	7,0	11,0	18,0	151,0	8,0	12,0	19,5	172,0
1250	1000	0,75000	100-5-150	21600	27000	32400	6,0	9,5	17,0	139,0	7,0	11,0	18,0	162,0	8,0	12,0	19,5	184,0
1250	1250	0,93750	100-5-150	27000	33750	40500	6,0	9,5	17,0	163,0	7,0	11,0	18,0	190,0	8,0	12,0	19,5	216,0
1400	630	0,44100	100-7-100	12701	15876	19051	7,0	12,0	23,0	133,0	8,0	14,0	24,0	154,0	9,0	16,0	26,0	176,0
1400	750	0,52500	100-7-100	15120	18900	22680	7,0	12,0	23,0	145,0	8,0	14,0	24,0	168,0	9,0	16,0	26,0	192,0
1400	800	0,56000	100-7-100	16128	20160	24192	7,0	12,0	23,0	151,0	8,0	14,0	24,0	176,0	9,0	16,0	26,0	200,0
1400	900	0,63000	100-7-100	18144	22680	27216	7,0	12,0	23,0	166,0	8,0	14,0	24,0	193,0	9,0	16,0	26,0	220,0
1400	1000	0,70000	100-7-100	20160	25200	30240	7,0	12,0	23,0	178,0	8,0	14,0	24,0	207,0	9,0	16,0	26,0	236,0
1400	1250	0,87500	100-7-100	25200	31500	37800	7,0	12,0	23,0	209,0	8,0	14,0	24,0	243,0	9,0	16,0	26,0	277,0
1400	1400	0,98000	100-7-100	28224	35280	42336	7,0	12,0	23,0	227,0	8,0	14,0	24,0	264,0	9,0	16,0	26,0	301,0
1400	630	0,37800	200-4-150	10886	13608	16330	10,0	20,0	30,0	148,0	11,5	23,0	35,5	172,0	12,0	25,0	39,0	196,0
1400	750	0,45000	200-4-150	12960	16200	19440	10,0	20,0	30,0	169,0	11,5	23,0	35,5	196,0	12,0	25,0	39,0	224,0
1400	800	0,48000	200-4-150	13824	17280	20736	10,0	20,0	30,0	175,0	11,5	23,0	35,5	204,0	12,0	25,0	39,0	232,0
1400	900	0,54000	200-4-150	15552	19440	23328	10,0	20,0	30,0	190,0	11,5	23,0	35,5	221,0	12,0	25,0	39,0	252,0



1400	1000	0,60000	200-4-150	17280	21600	25920	10,0	20,0	30,0	205,0	11,5	23,0	35,5	239,0	12,0	25,0	39,0	272,0
1400	1250	0,75000	200-4-150	21600	27000	32400	10,0	20,0	30,0	245,0	11,5	23,0	35,5	285,0	12,0	25,0	39,0	323,0
1400	1400	0,84000	200-4-150	24192	30240	36288	10,0	20,0	30,0	269,0	11,5	23,0	35,5	313,0	12,0	25,0	39,0	357,0
1500	630	0,36700	100-6-150	16330	20412	24494	6,0	9,5	17,0	121,0	7,0	11,0	18,0	140,0	8,0	12,0	19,5	160,0
1500	750	0,67500	100-6-150	19440	24300	29160	6,0	9,5	17,0	136,0	7,0	11,0	18,0	158,0	8,0	12,0	19,5	180,0
1500	800	0,72000	100-6-150	20736	25920	31104	6,0	9,5	17,0	139,0	7,0	11,0	18,0	162,0	8,0	12,0	19,5	184,0
1500	900	0,81000	100-6-150	23328	29160	34992	6,0	9,5	17,0	151,0	7,0	11,0	18,0	176,0	8,0	12,0	19,5	200,0
1500	1000	0,90000	100-6-150	25920	32400	38880	6,0	9,5	17,0	163,0	7,0	11,0	18,0	190,0	8,0	12,0	19,5	216,0
1500	1250	1,12500	100-6-150	32400	40500	48600	6,0	9,5	17,0	191,0	7,0	11,0	18,0	222,0	8,0	12,0	19,5	253,0
1500	1400	1,26000	100-6-150	36288	45360	54432	6,0	9,5	17,0	206,0	7,0	11,0	18,0	240,0	8,0	12,0	19,5	273,0
1500	1500	1,35000	100-6-150	38880	48600	58320	6,0	9,5	17,0	218,0	7,0	11,0	18,0	254,0	8,0	12,0	19,5	289,0
1500	630	0,31500	200-5-100	9072	11340	13608	12,0	26,0	39,0	175,0	13,5	31,0	43,0	203,0	14,0	35,0	46,0	232,0
1500	750	0,37500	200-5-100	10800	13500	16200	12,0	26,0	39,0	199,0	13,5	31,0	43,0	232,0	14,0	35,0	46,0	264,0
1500	800	0,40000	200-5-100	11520	14400	17280	12,0	26,0	39,0	208,0	13,5	31,0	43,0	242,0	14,0	35,0	46,0	276,0
1500	900	0,45000	200-5-100	12960	16200	19440	12,0	26,0	39,0	226,0	13,5	31,0	43,0	263,0	14,0	35,0	46,0	300,0
1500	1000	0,50000	200-5-100	14400	18000	21600	12,0	26,0	39,0	244,0	13,5	31,0	43,0	284,0	14,0	35,0	46,0	324,0
1500	1250	0,62500	200-5-100	18000	22500	27000	12,0	26,0	39,0	293,0	13,5	31,0	43,0	341,0	14,0	35,0	46,0	389,0
1500	1400	0,70000	200-5-100	20160	25200	30240	12,0	26,0	39,0	320,0	13,5	31,0	43,0	373,0	14,0	35,0	46,0	425,0
1500	1500	0,75000	200-5-100	21600	27000	32400	12,0	26,0	39,0	338,0	13,5	31,0	43,0	394,0	14,0	35,0	46,0	449,0
1600	630	0,50400	100-8-100	14515	18144	21773	7,0	12,0	23,0	148,0	8,0	14,0	24,0	172,0	9,0	16,0	26,0	196,0
1600	750	0,60000	100-8-100	17280	21600	25920	7,0	12,0	23,0	163,0	8,0	14,0	24,0	190,0	9,0	16,0	26,0	216,0
1600	800	0,64000	100-8-100	18432	23040	27648	7,0	12,0	23,0	172,0	8,0	14,0	24,0	200,0	9,0	16,0	26,0	228,0
1600	900	0,72000	100-8-100	20736	25920	31104	7,0	12,0	23,0	184,0	8,0	14,0	24,0	214,0	9,0	16,0	26,0	244,0
1600	1000	0,80000	100-8-100	23040	28800	34560	7,0	12,0	23,0	200,0	8,0	14,0	24,0	232,0	9,0	16,0	26,0	265,0
1600	1250	1,00000	100-8-100	28800	36000	43200	7,0	12,0	23,0	233,0	8,0	14,0	24,0	271,0	9,0	16,0	26,0	309,0
1600	1400	1,12000	100-8-100	32256	40320	48384	7,0	12,0	23,0	254,0	8,0	14,0	24,0	296,0	9,0	16,0	26,0	337,0
1600	1500	1,20000	100-8-100	34560	43200	51840	7,0	12,0	23,0	266,0	8,0	14,0	24,0	310,0	9,0	16,0	26,0	353,0
1600	1600	1,28000	100-8-100	36864	46080	55296	7,0	12,0	23,0	282,0	8,0	14,0	24,0	328,0	9,0	16,0	26,0	374,0
1600	630	0,50400	200-4-200	14515	18144	21773	8,0	15,0	24,5	154,0	10,0	17,5	27,0	179,0	11,0	20,0	30,0	204,0
1600	750	0,60000	200-4-200	17280	21600	25920	8,0	15,0	24,5	172,0	10,0	17,5	27,0	200,0	11,0	20,0	30,0	228,0
1600	800	0,64000	200-4-200	18432	23040	27648	8,0	15,0	24,5	181,0	10,0	17,5	27,0	211,0	11,0	20,0	30,0	240,0

1600	900	0,72000	200-4-200	20736	25920	31104	8,0	15,0	24,5	196,0	10,0	17,5	27,0	228,0	11,0	20,0	30,0	260,0
1600	1000	0,80000	200-4-200	23040	28800	34560	8,0	15,0	24,5	212,0	10,0	17,5	27,0	246,0	11,0	20,0	30,0	281,0
1600	1250	1,00000	200-4-200	28800	36000	43200	8,0	15,0	24,5	248,0	10,0	17,5	27,0	289,0	11,0	20,0	30,0	329,0
1600	1400	1,12000	200-4-200	32256	40320	48384	8,0	15,0	24,5	272,0	10,0	17,5	27,0	317,0	11,0	20,0	30,0	361,0
1600	1500	1,20000	200-4-200	34560	43200	51840	8,0	15,0	24,5	287,0	10,0	17,5	27,0	334,0	11,0	20,0	30,0	381,0
1600	1600	1,28000	200-4-200	36864	46080	55296	8,0	15,0	24,5	303,0	10,0	17,5	27,0	352,0	11,0	20,0	30,0	402,0
1800	750	0,67500	100-9-100	19440	24300	29160	7,0	12,0	23,0	182,0	8,0	14,0	24,0	211,0	9,0	16,0	26,0	241,0
1800	800	0,72000	100-9-100	20736	25920	31104	7,0	12,0	23,0	191,0	8,0	14,0	24,0	222,0	9,0	16,0	26,0	253,0
1800	900	0,81000	100-9-100	23328	29160	34992	7,0	12,0	23,0	206,0	8,0	14,0	24,0	239,0	9,0	16,0	26,0	273,0
1800	1000	0,90000	100-9-100	25920	32400	38880	7,0	12,0	23,0	221,0	8,0	14,0	24,0	257,0	9,0	16,0	26,0	293,0
1800	1250	1,12500	100-9-100	32400	40500	48600	7,0	12,0	23,0	257,0	8,0	14,0	24,0	299,0	9,0	16,0	26,0	341,0
1800	1400	1,26000	100-9-100	36288	45360	54432	7,0	12,0	23,0	282,0	8,0	14,0	24,0	328,0	9,0	16,0	26,0	374,0
1800	1500	1,35000	100-9-100	38880	48600	58320	7,0	12,0	23,0	297,0	8,0	14,0	24,0	345,0	9,0	16,0	26,0	394,0
1800	1600	1,44000	100-9-100	41472	51840	62208	7,0	12,0	23,0	312,0	8,0	14,0	24,0	363,0	9,0	16,0	26,0	414,0
1800	1800	1,62000	100-9-100	46656	58320	69984	7,0	12,0	23,0	342,0	8,0	14,0	24,0	398,0	9,0	16,0	26,0	454,0
1800	750	0,45000	200-6-100	12960	16200	19440	12,0	26,0	39,0	236,0	13,5	31,0	43,0	274,0	14,0	35,0	46,0	313,0
1800	800	0,48000	200-6-100	13824	17280	20736	12,0	26,0	39,0	245,0	13,5	31,0	43,0	285,0	14,0	35,0	46,0	325,0
1800	900	0,54000	200-6-100	15552	19440	23328	12,0	26,0	39,0	269,0	13,5	31,0	43,0	313,0	14,0	35,0	46,0	357,0
1800	1000	0,60000	200-6-100	17280	21600	25920	12,0	26,0	39,0	290,0	13,5	31,0	43,0	337,0	14,0	35,0	46,0	385,0
1800	1250	0,75000	200-6-100	21600	27000	32400	12,0	26,0	39,0	344,0	13,5	31,0	43,0	401,0	14,0	35,0	46,0	457,0
1800	1400	0,84000	200-6-100	24192	30240	36288	12,0	26,0	39,0	378,0	13,5	31,0	43,0	440,0	14,0	35,0	46,0	502,0
1800	1500	0,90000	200-6-100	25920	32400	38880	12,0	26,0	39,0	399,0	13,5	31,0	43,0	464,0	14,0	35,0	46,0	530,0
1800	1600	0,96000	200-6-100	27648	34560	41472	12,0	26,0	39,0	420,0	13,5	31,0	43,0	489,0	14,0	35,0	46,0	558,0
1800	1800	1,08000	200-6-100	31104	38880	46656	12,0	26,0	39,0	465,0	13,5	31,0	43,0	542,0	14,0	35,0	46,0	618,0
2000	800	0,80000	100-10-100	23040	28800	34560	7,0	12,0	23,0	209,0	8,0	14,0	24,0	243,0	9,0	16,0	26,0	277,0
2000	900	0,90000	100-10-100	25920	32400	38880	7,0	12,0	23,0	224,0	8,0	14,0	24,0	261,0	9,0	16,0	26,0	297,0
2000	1000	1,00000	100-10-100	28800	36000	43200	7,0	12,0	23,0	242,0	8,0	14,0	24,0	282,0	9,0	16,0	26,0	321,0
2000	1250	1,25000	100-10-100	36000	45000	54000	7,0	12,0	23,0	285,0	8,0	14,0	24,0	331,0	9,0	16,0	26,0	378,0
2000	1400	1,40000	100-10-100	40320	50400	60480	7,0	12,0	23,0	309,0	8,0	14,0	24,0	359,0	9,0	16,0	26,0	410,0
2000	1500	1,50000	100-10-100	43200	54000	64800	7,0	12,0	23,0	327,0	8,0	14,0	24,0	381,0	9,0	16,0	26,0	434,0
2000	1600	1,60000	100-10-100	46080	57600	69120	7,0	12,0	23,0	342,0	8,0	14,0	24,0	398,0	9,0	16,0	26,0	454,0

2000	1800	1,800000	100-10-100	51840	64800	77760	7,0	12,0	23,0	376,0	8,0	14,0	24,0	437,0	9,0	16,0	26,0	499,0
2000	2000	2,000000	100-10-100	57600	72000	86400	7,0	12,0	23,0	409,0	8,0	14,0	24,0	476,0	9,0	16,0	26,0	543,0
2000	800	0,800000	200-5-200	23040	28800	34560	8,0	15,0	24,5	221,0	10,0	17,5	27,0	257,0	11,0	20,0	30,0	293,0
2000	900	0,900000	200-5-200	25920	32400	38880	8,0	15,0	24,5	239,0	10,0	17,5	27,0	278,0	11,0	20,0	30,0	317,0
2000	1000	1,000000	200-5-200	28800	36000	43200	8,0	15,0	24,5	257,0	10,0	17,5	27,0	299,0	11,0	20,0	30,0	341,0
2000	1250	1,250000	200-5-200	36000	45000	54000	8,0	15,0	24,5	303,0	10,0	17,5	27,0	352,0	11,0	20,0	30,0	402,0
2000	1400	1,400000	200-5-200	40320	50400	60480	8,0	15,0	24,5	333,0	10,0	17,5	27,0	387,0	11,0	20,0	30,0	442,0
2000	1500	1,500000	200-5-200	43200	54000	64800	8,0	15,0	24,5	351,0	10,0	17,5	27,0	409,0	11,0	20,0	30,0	466,0
2000	1600	1,600000	200-5-200	46080	57600	69120	8,0	15,0	24,5	369,0	10,0	17,5	27,0	430,0	11,0	20,0	30,0	490,0
2000	1800	1,800000	200-5-200	51840	64800	77760	8,0	15,0	24,5	406,0	10,0	17,5	27,0	472,0	11,0	20,0	30,0	539,0
2000	2000	2,000000	200-5-200	57600	72000	86400	8,0	15,0	24,5	445,0	10,0	17,5	27,0	518,0	11,0	20,0	30,0	591,0

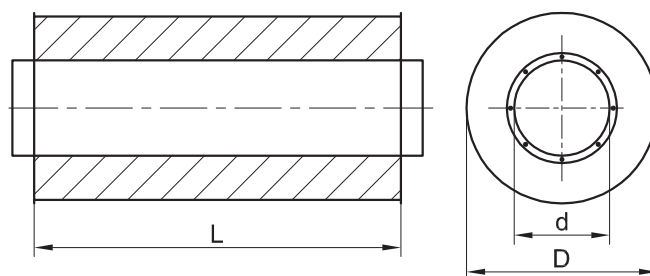


OPIS

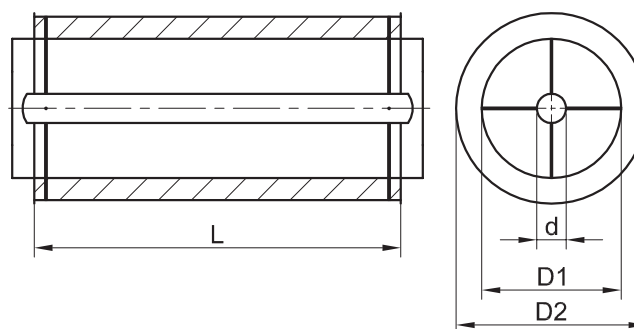
- **TSR** - tłumiki szumu rurowe, przeznaczone są do montażu w instalacjach typu Spiro i BI. Płaszcz tłumika wykonany jest z blachy ocynkowanej. Materiałem dźwiękochłonnym jest wełna mineralna zabezpieczona blachą perforowaną. Grubość izolacji w zależności od wymaganego tłumienia 50 lub 100mm.
- **TSRr** - tłumiki szumu rurowe z rdzeniem przeznaczone są do montażu w kanałach wentylacyjnych o przekroju kołowym. Obudowa tłumika wykonana jest z blachy ocynkowanej. Rdzeń wewnętrzny wykonany jest z perforowanej blachy stalowej. Grubość izolacji 100mm.

Material:

stal ocynkowana DX51D (opcjonalnie możliwe jest wykonanie ze stali nierdzewnej).



TSR



TSRr

ZAMÓWIENIE

•TSR-<d>-<L>

<d> Średnica [mm]

<L> Długość L [mm]

Przykład:

TSR-350-1250

ZAMÓWIENIE

•TSRr-<d>-<L>

<d> Średnica [mm]

<L> Długość L [mm]

Przykład:

TSRr-500-1500

TSR grubość izolacji = 50 mm								
średnica d mm	Długość L = 1000 mm							
	fm w Hz							
	63	125	250	500	1000	2000	4000	8000
100	4	9	14	27	41	49	42	24
125	4	7	12	22	38	41	29	20
160	2	5	9	19	34	30	17	15
200	2	4	7	16	31	22	12	11
250	2	3	6	14	27	17	8	8
315	1	2	5	12	25	13	5	6

TSR grubość izolacji = 100 mm								
średnica d mm	Długość L = 1000 mm							
	fm w Hz							
	63	125	250	500	1000	2000	4000	8000
100	5	16	24	34	50	50	46	24
125	5	14	21	32	47	43	33	20
160	5	10	18	30	42	33	21	14
200	4	9	15	28	37	27	16	11
250	3	8	14	25	33	21	10	9
315	3	6	12	24	29	16	8	7