

REV. C

SAE MA3330

FEDERAL SUPPLY CLASS

RATIONALE

MA3330C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

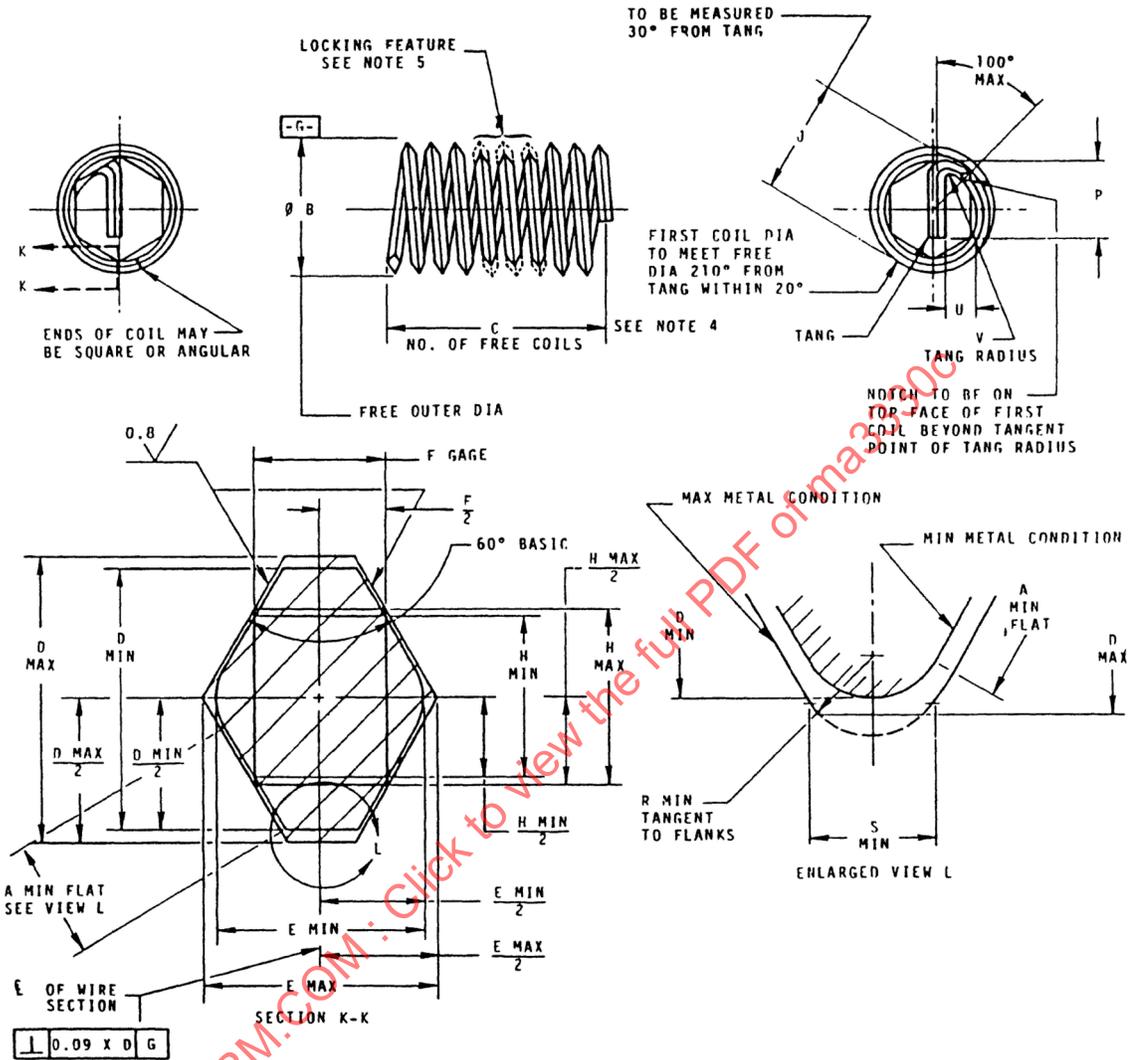
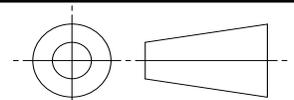


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA3330C>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

METRIC AEROSPACE STANDARD

INSERT, SCREW THREAD, HELICAL COIL,
METRIC SERIES, SCREW LOCKING, CRES,
DRY FILM LUBRICATED

SAE MA3330
SHEET 1 OF 5

REV. C

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

ISSUED 1981-09 REVISED 1995-12 REAFFIRMED 2012-12

METRIC AEROSPACE STANDARD

INSERT, SCREW THREAD, HELICAL COIL,
METRIC SERIES, SCREW LOCKING, CRES,
DRY FILM LUBRICATED

TABLE 1

THREAD SIZE DIA	THREAD SIZE PITCH	AEROSPACE STANDARD PART		NOMINAL LENGTH SEE NOTE 1		NOMINAL LENGTH SEE NOTE 1		NOMINAL LENGTH SEE NOTE 1		NOMINAL LENGTH SEE NOTE 1							
		NUMBER	1.5 DIA	NUMBER	2 DIA	NUMBER	2.5 DIA	NUMBER	3 DIA	NOTE 1	1.5 DIA	NOTE 1	2 DIA	NOTE 1	2.5 DIA	NOTE 1	3 DIA
2	0.4	MA3330-190	MA3330-240	MA3330-290	MA3330-340	MA3330-390	MA3330-440	MA3330-490	MA3330-540	3.0	4.0	5.0	6.0	0.074	2.50	2.70	
2.2	0.45	MA3330-100	MA3330-200	MA3330-250	MA3330-300	MA3330-350	MA3330-400	MA3330-450	MA3330-500	2.2	3.3	4.4	5.5	0.082	2.80	3.00	
2.5	0.45	MA3330-101	MA3330-201	MA3330-251	MA3330-301	MA3330-351	MA3330-401	MA3330-451	MA3330-501	2.5	3.8	5.0	6.3	0.082	3.20	3.70	
3	0.5	MA3330-102	MA3330-202	MA3330-252	MA3330-302	MA3330-352	MA3330-402	MA3330-452	MA3330-502	3.0	4.5	6.0	7.5	0.105	3.80	4.35	
3.5	0.6	MA3330-103	MA3330-203	MA3330-253	MA3330-303	MA3330-353	MA3330-403	MA3330-453	MA3330-503	3.5	5.3	7.0	8.8	0.160	4.40	4.95	
4	0.7	MA3330-104	MA3330-204	MA3330-254	MA3330-304	MA3330-354	MA3330-404	MA3330-454	MA3330-504	4.0	6.0	8.0	10.0	0.163	5.05	5.60	
5	0.8	MA3330-105	MA3330-205	MA3330-255	MA3330-305	MA3330-355	MA3330-405	MA3330-455	MA3330-505	5.0	7.5	10.0	12.5	0.209	6.25	6.80	
6	1	MA3330-106	MA3330-206	MA3330-256	MA3330-306	MA3330-356	MA3330-406	MA3330-456	MA3330-506	6.0	9.0	12.0	15.0	0.267	7.40	7.95	
7	1	MA3330-107	MA3330-207	MA3330-257	MA3330-307	MA3330-357	MA3330-407	MA3330-457	MA3330-507	7.0	10.5	14.0	17.5	0.267	8.65	9.20	
8	1	MA3330-108	MA3330-208	MA3330-258	MA3330-308	MA3330-358	MA3330-408	MA3330-458	MA3330-508	8.0	12.0	16.0	20.0	0.267	9.70	10.25	
8	1.25	MA3330-109	MA3330-209	MA3330-259	MA3330-309	MA3330-359	MA3330-409	MA3330-459	MA3330-509	8.0	12.0	16.0	20.0	0.415	9.80	10.35	
10	1	MA3330-110	MA3330-210	MA3330-260	MA3330-310	MA3330-360	MA3330-410	MA3330-460	MA3330-510	10.0	15.0	20.0	25.0	0.267	11.95	12.50	
10	1.25	MA3330-111	MA3330-211	MA3330-261	MA3330-311	MA3330-361	MA3330-411	MA3330-461	MA3330-511	10.0	15.0	20.0	25.0	0.415	12.10	12.65	
10	1.5	MA3330-112	MA3330-212	MA3330-262	MA3330-312	MA3330-362	MA3330-412	MA3330-462	MA3330-512	10.0	15.0	20.0	25.0	0.511	11.95	12.50	
12	1.25	MA3330-113	MA3330-213	MA3330-263	MA3330-313	MA3330-363	MA3330-413	MA3330-463	MA3330-513	12.0	18.0	24.0	30.0	0.415	14.25	14.95	
12	1.5	MA3330-114	MA3330-214	MA3330-264	MA3330-314	MA3330-364	MA3330-414	MA3330-464	MA3330-514	12.0	18.0	24.0	30.0	0.654	14.30	15.00	
14	1.5	MA3330-115	MA3330-215	MA3330-265	MA3330-315	MA3330-365	MA3330-415	MA3330-465	MA3330-515	14.0	21.0	28.0	35.0	0.511	16.55	17.25	
14	2	MA3330-116	MA3330-216	MA3330-266	MA3330-316	MA3330-366	MA3330-416	MA3330-466	MA3330-516	14.0	21.0	28.0	35.0	0.799	16.65	17.35	
16	1.5	MA3330-117	MA3330-217	MA3330-267	MA3330-317	MA3330-367	MA3330-417	MA3330-467	MA3330-517	16.0	24.0	32.0	40.0	0.511	18.90	19.60	
16	2	MA3330-118	MA3330-218	MA3330-268	MA3330-318	MA3330-368	MA3330-418	MA3330-468	MA3330-518	16.0	24.0	32.0	40.0	0.799	18.90	19.60	
18	1.5	MA3330-119	MA3330-219	MA3330-269	MA3330-319	MA3330-369	MA3330-419	MA3330-469	MA3330-519	18.0	27.0	36.0	45.0	0.511	21.05	21.75	
18	2	MA3330-120	MA3330-220	MA3330-270	MA3330-320	MA3330-370	MA3330-420	MA3330-470	MA3330-520	18.0	27.0	36.0	45.0	0.799	21.15	21.85	
18	2.5	MA3330-121	MA3330-221	MA3330-271	MA3330-321	MA3330-371	MA3330-421	MA3330-471	MA3330-521	18.0	27.0	36.0	45.0	1.017	21.30	22.00	
20	1.5	MA3330-122	MA3330-222	MA3330-272	MA3330-322	MA3330-372	MA3330-422	MA3330-472	MA3330-522	20.0	30.0	40.0	50.0	0.511	23.15	24.00	
20	2	MA3330-123	MA3330-223	MA3330-273	MA3330-323	MA3330-373	MA3330-423	MA3330-473	MA3330-523	20.0	30.0	40.0	50.0	0.799	23.20	24.05	
20	2.5	MA3330-124	MA3330-224	MA3330-274	MA3330-324	MA3330-374	MA3330-424	MA3330-474	MA3330-524	20.0	30.0	40.0	50.0	1.017	23.55	24.40	
22	1.5	MA3330-125	MA3330-225	MA3330-275	MA3330-325	MA3330-375	MA3330-425	MA3330-475	MA3330-525	22.0	33.0	44.0	55.0	0.511	25.55	26.45	
22	2	MA3330-126	MA3330-226	MA3330-276	MA3330-326	MA3330-376	MA3330-426	MA3330-476	MA3330-526	22.0	33.0	44.0	55.0	0.799	25.60	26.50	
22	2.5	MA3330-127	MA3330-227	MA3330-277	MA3330-327	MA3330-377	MA3330-427	MA3330-477	MA3330-527	22.0	33.0	44.0	55.0	1.017	25.90	26.90	
24	2	MA3330-128	MA3330-228	MA3330-278	MA3330-328	MA3330-378	MA3330-428	MA3330-478	MA3330-528	24.0	36.0	48.0	60.0	0.799	28.10	29.10	
24	3	MA3330-129	MA3330-229	MA3330-279	MA3330-329	MA3330-379	MA3330-429	MA3330-479	MA3330-529	24.0	36.0	48.0	60.0	1.234	28.00	29.00	
27	3	MA3330-130	MA3330-230	MA3330-280	MA3330-330	MA3330-380	MA3330-430	MA3330-480	MA3330-530	27.0	40.5	54.0	67.5	0.799	31.30	32.30	
27	3	MA3330-131	MA3330-231	MA3330-281	MA3330-331	MA3330-381	MA3330-431	MA3330-481	MA3330-531	27.0	40.5	54.0	67.5	1.234	31.40	32.40	
30	2	MA3330-132	MA3330-232	MA3330-282	MA3330-332	MA3330-382	MA3330-432	MA3330-482	MA3330-532	30.0	45.0	60.0	75.0	0.799	34.50	35.70	
30	3	MA3330-133	MA3330-233	MA3330-283	MA3330-333	MA3330-383	MA3330-433	MA3330-483	MA3330-533	30.0	45.0	60.0	75.0	1.234	34.90	36.10	
33	2	MA3330-134	MA3330-234	MA3330-284	MA3330-334	MA3330-384	MA3330-434	MA3330-484	MA3330-534	33.0	49.5	66.0	82.5	0.799	37.80	39.20	
33	3	MA3330-135	MA3330-235	MA3330-285	MA3330-335	MA3330-385	MA3330-435	MA3330-485	MA3330-535	33.0	49.5	66.0	82.5	1.234	38.10	39.50	
36	2	MA3330-136	MA3330-236	MA3330-286	MA3330-336	MA3330-386	MA3330-436	MA3330-486	MA3330-536	36.0	54.0	72.0	90.0	0.799	41.00	42.40	
36	3	MA3330-137	MA3330-237	MA3330-287	MA3330-337	MA3330-387	MA3330-437	MA3330-487	MA3330-537	36.0	54.0	72.0	90.0	1.234	41.30	42.70	
39	2	MA3330-138	MA3330-238	MA3330-288	MA3330-338	MA3330-388	MA3330-438	MA3330-488	MA3330-538	39.0	58.5	78.0	97.5	0.799	44.30	45.70	
39	3	MA3330-139	MA3330-239	MA3330-289	MA3330-339	MA3330-389	MA3330-439	MA3330-489	MA3330-539	39.0	58.5	78.0	97.5	1.234	44.40	45.80	

TABLE 1 (CONTINUED)

THREAD SIZE DIA	THREAD SIZE PITCH	C ± .25 COIL 1.5 DIA		C ± .25 COIL 2 DIA		C ± .25 COIL 2.5 DIA		C ± .25 COIL 3 DIA		D MIN	D MAX	E MIN	E MAX	F GAGE	H MIN	H MAX	J MIN	J MAX
		COIL 1.5 DIA	COIL 2 DIA	COIL 2.5 DIA	COIL 3 DIA	MIN	MAX	MIN	MAX									
2	0.4	5.500	7.750	10.125	12.375	0.389	0.433	0.274	0.350	0.200	0.2495	0.2600	2.50	2.70				
2.2	0.45	5.375	7.625	9.875	12.125	0.437	0.487	0.318	0.394	0.225	0.2820	0.2920	2.60	2.80				
2.5	0.45	5.750	8.125	10.500	12.750	0.437	0.487	0.318	0.394	0.225	0.2820	0.2920	3.05	3.65				
3	0.5	6.375	8.875	11.375	13.875	0.482	0.541	0.362	0.438	0.250	0.3145	0.3250	3.60	4.30				
3.5	0.6	6.375	8.750	11.375	13.750	0.586	0.650	0.449	0.525	0.300	0.3795	0.3900	4.25	4.90				
4	0.7	6.125	8.625	11.125	13.625	0.683	0.758	0.510	0.612	0.350	0.4445	0.4550	4.90	5.55				
5	0.8	6.875	9.625	12.375	15.125	0.775	0.866	0.598	0.700	0.400	0.5085	0.5200	6.10	6.75				
6	1	4.000	6.750	9.500	12.125	14.875	1.083	0.748	0.875	0.500	0.6370	0.6500	7.25	7.90				
7	1	4.875	8.000	11.125	14.125	0.975	1.083	0.748	0.875	0.500	0.6370	0.6500	8.40	9.15				
8	1	5.875	9.375	13.000	16.500	0.975	1.083	0.748	0.875	0.500	0.6370	0.6500	9.20	9.65				
8	1.25	4.500	10.250	13.250	16.125	1.251	1.353	0.967	1.094	0.625	0.7990	0.8120	9.50	9.90				
10	1	7.625	16.500	21.000	25.500	0.975	1.083	0.748	0.875	0.500	0.6370	0.6500	11.10	11.55				
10	1.25	5.875	13.125	16.500	20.375	1.251	1.353	0.967	1.094	0.625	0.7990	0.8120	11.50	11.95				
10	1.5	4.875	8.000	11.125	14.250	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	11.80	12.25				
12	1.25	7.250	15.875	20.250	24.500	1.251	1.353	0.967	1.094	0.625	0.7990	0.8120	13.50	14.00				
12	1.5	6.000	13.375	17.000	20.750	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	13.80	14.30				
12	1.75	5.000	11.500	14.625	17.875	1.792	1.894	1.379	1.531	0.875	1.1240	1.1370	14.10	14.60				
14	1.5	7.125	15.625	20.000	24.250	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	15.80	16.30				
14	2	5.125	11.750	15.000	18.375	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	16.40	16.90				
16	1.5	8.250	18.000	22.750	27.625	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	17.80	18.30				
16	2	6.125	13.500	17.250	21.000	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	18.40	18.90				
18	1.5	9.500	20.375	25.875	31.375	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	19.80	20.35				
18	2	7.000	15.375	19.500	23.625	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	20.40	20.95				
18	2.5	5.375	12.250	15.625	19.000	2.604	2.706	1.998	2.188	1.250	1.6110	1.6240	20.90	21.45				
20	1.5	10.750	22.875	28.875	35.000	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	21.80	22.50				
20	2	7.875	17.250	21.875	26.500	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	22.40	23.10				
20	2.5	6.125	13.625	17.375	21.125	2.604	2.706	1.998	2.188	1.250	1.6110	1.6240	22.90	23.60				
22	1.5	11.875	25.125	31.625	38.250	1.522	1.624	1.160	1.312	0.750	0.9615	0.9740	24.10	24.80				
22	2	8.750	18.875	23.875	29.000	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	24.40	25.10				
22	2.5	6.750	14.875	19.000	23.125	2.604	2.706	1.998	2.188	1.250	1.6110	1.6240	24.90	25.60				
24	2	9.500	20.375	25.875	31.250	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	26.40	27.10				
24	3	6.125	13.750	17.500	21.375	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	27.50	28.20				
27	2	10.875	23.250	29.375	35.500	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	29.40	30.10				
27	3	7.000	15.500	19.750	24.000	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	30.50	31.20				
30	2	12.250	25.875	32.750	39.500	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	32.50	33.20				
30	3	7.875	17.125	21.875	26.500	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	33.50	34.20				
33	2	13.625	28.625	36.000	43.500	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	35.80	36.50				
33	3	8.750	19.000	24.125	29.250	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	36.50	37.20				
36	2	15.000	31.375	39.500	47.750	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	39.00	39.70				
36	3	9.750	20.875	26.500	32.000	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	39.50	40.20				
39	2	16.375	34.125	43.000	51.875	2.063	2.165	1.598	1.750	1.000	1.2865	1.2990	42.30	43.00				
39	3	10.750	22.750	28.875	34.875	3.146	3.248	2.396	2.625	1.500	1.9360	1.9485	42.50	43.20				

TABLE 1 (CONTINUED)

THREAD SIZE DIA	THREAD SIZE PITCH	P		P		R		S		U		U		V		APPROXIMATE MATE MASS, KILO-GRAMS/100 1 DIA		APPROXIMATE MATE MASS, KILO-GRAMS/100 1.5 DIA		APPROXIMATE MATE MASS, KILO-GRAMS/100 2 DIA		APPROXIMATE MATE MASS, KILO-GRAMS/100 2.5 DIA		APPROXIMATE MATE MASS, KILO-GRAMS/100 3 DIA			
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
2	0.4	1.30	1.90	0.072	0.125	0.66	0.37	0.22	0.003	0.003	0.005	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
2.2	0.45	1.40	2.00	0.081	0.141	0.91	0.62	0.25	0.004	0.004	0.006	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
2.5	0.45	1.60	2.25	0.081	0.141	1.22	0.81	0.30	0.003	0.003	0.006	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
3	0.5	1.95	2.80	0.090	0.156	1.33	0.86	0.30	0.006	0.006	0.012	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
3.5	0.6	2.20	3.00	0.108	0.188	1.47	0.92	0.30	0.009	0.009	0.014	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
4	0.7	2.50	3.55	0.126	0.219	1.67	1.02	0.45	0.014	0.014	0.022	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
5	0.8	3.15	4.55	0.144	0.250	2.09	1.41	0.60	0.025	0.025	0.040	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
6	1	3.70	4.85	0.180	0.312	2.55	1.85	0.60	0.044	0.044	0.072	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099
7	1	4.30	5.50	0.180	0.312	3.10	2.09	0.75	0.062	0.062	0.099	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136	0.136
8	1	4.75	6.50	0.180	0.312	3.88	2.27	0.75	0.083	0.083	0.132	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180	0.180
8	1.25	4.75	6.50	0.226	0.391	3.60	2.02	0.75	0.100	0.100	0.160	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
10	1	5.50	8.00	0.180	0.312	4.90	2.95	0.75	0.136	0.136	0.212	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288
10	1.25	5.50	8.00	0.226	0.391	4.77	2.86	0.75	0.162	0.162	0.257	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
10	1.5	5.50	8.00	0.271	0.469	4.54	2.56	0.75	0.188	0.188	0.302	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416
12	1.25	6.70	9.75	0.226	0.391	5.84	3.77	1.00	0.240	0.240	0.376	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512
12	1.5	6.70	9.75	0.271	0.469	5.58	3.50	1.20	0.281	0.281	0.444	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
12	1.75	6.70	9.75	0.316	0.547	5.36	3.23	1.40	0.318	0.318	0.509	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
14	1.5	7.20	11.25	0.271	0.469	6.76	4.34	1.15	0.391	0.391	0.614	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836	0.836
14	2	7.20	11.25	0.361	0.625	6.26	3.79	1.40	0.497	0.497	0.794	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091	1.091
16	1.5	8.30	12.75	0.271	0.469	7.90	5.32	1.45	0.519	0.519	0.810	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101
16	2	8.30	12.75	0.361	0.625	7.30	4.76	2.70	0.665	0.665	1.053	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441
18	1.5	9.30	14.00	0.271	0.469	8.83	6.26	1.75	0.665	0.665	1.033	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401
18	2	9.30	14.00	0.361	0.625	8.30	5.74	2.70	0.856	0.856	1.347	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838
18	2.5	9.30	14.00	0.451	0.781	7.79	5.20	2.85	1.031	1.031	1.645	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258	2.258
20	1.5	10.40	14.50	0.271	0.469	9.77	7.19	2.85	0.890	0.890	1.284	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739
20	2	10.40	14.50	0.361	0.625	9.40	6.65	2.85	1.072	1.072	1.678	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284	2.284
20	2.5	10.40	14.50	0.451	0.781	8.89	6.11	2.85	1.297	1.297	2.054	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812
22	1.5	11.40	16.00	0.271	0.469	11.10	8.01	2.85	1.013	1.013	1.563	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113	2.113
22	2	11.40	16.00	0.361	0.625	10.45	7.61	2.85	1.313	1.313	2.046	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779	2.779
22	2.5	11.40	16.00	0.451	0.781	9.94	7.07	2.85	1.593	1.593	2.510	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426	3.426
24	2	12.50	16.50	0.361	0.625	11.46	8.60	2.85	1.576	1.576	2.448	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321	3.321
24	3	12.50	16.50	0.541	0.938	10.45	7.51	2.85	2.239	2.239	3.548	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857	4.857
27	2	14.00	17.50	0.361	0.625	13.14	9.93	2.85	2.017	2.017	3.121	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225	4.225
27	3	14.00	17.50	0.541	0.938	12.13	8.85	2.85	2.884	2.884	4.540	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196	6.196
30	2	15.00	19.00	0.361	0.625	14.81	11.26	2.85	2.513	2.513	3.876	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238	5.238
30	3	15.00	19.00	0.541	0.938	13.65	10.32	2.85	3.611	3.611	5.656	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700	7.700
33	2	17.00	21.00	0.361	0.625	16.35	12.74	2.85	3.063	3.063	4.712	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361	6.361
33	3	17.00	21.00	0.541	0.938	15.19	11.78	2.85	4.420	4.420	6.894	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367	9.367
36	2	18.50	22.50	0.361	0.625	17.77	14.29	2.85	3.671	3.671	5.633	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595	7.595
36	3	18.50	22.50	0.541	0.938	16.73	13.23	2.85	5.316	5.316	8.260	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204	11.204
39	2	20.00	24.00	0.361	0.625	19.28	15.77	2.85	4.331	4.331	6.634	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936	8.936
39	3	20.00	24.00	0.541	0.938	18.28	14.68	2.85	6.290	6.290	9.745	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200