

VOLUME OF 45° HOPPER SILOS															
	SILO Ø (m)	3,10	3,60	3,80	4,60	5,30	6,10	6,90	7,60	8,40	9,20	9,90	10,70	11,50	12,20
	OUTLET HEIGHT (m)	1,00	0,75	1,14	1,38	1,00	1,14	1,37	1,00	1,15	1,38	1,00	1,13	1,38	0,99
	HOPPER HEIGHT (m)	1,44	1,69	1,82	2,20	2,59	2,97	3,36	3,74	4,12	4,50	4,88	5,27	5,64	6,03
	ROOF HEIGHT (m)	0,85	0,96	1,14	1,37	1,60	1,82	2,01	2,26	2,48	2,45	2,67	2,89	3,02	3,33
	FIXED HEIGHT (m)	3,30	3,41	4,10	4,96	5,18	5,92	6,75	6,99	7,74	8,33	8,55	9,29	10,04	10,35
RING NUMBERS	CYLINDER HEIGHT (m)	VOLUME (m³)													
1	1,04	14	20	24	38	56	79	108	142	183	231	287	351	423	506
2	2,18	22	32	37	57	82	113	150	195	247	307	376	454	541	640
3	3,33	31	43	50	76	108	146	193	247	310	382	464	557	659	774
4	4,47	39	55	63	95	133	180	235	300	374	458	553	659	777	908
5	5,62	48	66	76	113	159	213	278	352	437	533	641	762	895	1.043
6	6,76	56	78	90	132	185	247	320	404	500	609	730	865	1.013	1.177
7	7,90	64	89	103	151	210	281	363	457	564	684	819	968	1.131	1.311
8	9,05	73	100	116	170	236	314	405	509	627	760	907	1.070	1.249	1.445
9	10,19	81	112	129	189	262	348	448	562	691	835	996	1.173	1.367	1.580
10	11,34	90	123	142	208	287	381	490	614	754	911	1.085	1.276	1.485	1.714
11	12,48	98	135	155	227	313	415	533	667	818	986	1.173	1.379	1.603	1.848
12	13,62	106	146	168	246	339	448	575	719	881	1.062	1.262	1.482	1.721	1.982
13	14,77	115	158	181	264	365	482	618	772	945	1.137	1.350	1.584	1.839	2.117
14	15,91	123	169	194	283	390	515	660	824	1.008	1.213	1.439	1.687	1.957	2.251
15	17,06	132	181	208	302	416	549	702	876	1.072	1.288	1.528	1.790	2.075	2.385

VOLUME OF 60° HOPPER SILOS										
	SILO Ø (m)	3,10	3,60	3,80	4,60	5,30	6,10	6,90	7,60	8,40
	OUTLET HEIGHT (m)	1,18	0,74	1,04	1,15	1,03	0,86	1,34	1,20	1,17
	HOPPER HEIGHT (m)	2,41	2,85	3,07	3,59	4,23	5,02	5,68	6,34	7,00
	ROOF HEIGHT (m)	0,85	0,96	1,14	1,37	1,60	1,82	2,01	2,26	2,48
	FIXED HEIGHT (m)	4,44	4,55	5,25	6,11	6,85	7,69	9,03	9,80	10,65
RING NUMBERS	CYLINDER HEIGHT (m)	VOLUME (m³)								
1	1,04	16	24	29	46	68	99	137	182	237
2	2,18	25	36	42	64	94	133	179	235	300
3	3,33	33	47	55	83	120	166	221	287	364
4	4,47	42	59	68	102	145	200	264	339	427
5	5,62	50	70	81	121	171	233	306	392	490
6	6,76	58	81	94	140	197	267	349	444	554
7	7,90	67	93	107	159	223	301	391	497	617
8	9,05	75	104	121	178	248	334	434	549	681
9	10,19	84	116	134	197	274	368	476	602	744
10	11,34	92	127	147	215	300	401	519	654	808
11	12,48	100	139	160	234	325	435	561	706	871
12	13,62	109	150	173	253	351	468	604	759	935
13	14,77	117	162	186	272	377	502	646	811	998
14	15,91	126	173	199	291	402	536	689	864	1.061
15	17,06	134	184	212	310	428	569	731	916	1.125

CAPACITY OF 45° HOPPER SILOS															
Density= 0,75 t/m³															
	SILO Ø (m)	3,10	3,60	3,80	4,60	5,30	6,10	6,90	7,60	8,40	9,20	9,90	10,70	11,50	12,20
	OUTLET HEIGHT (m)	1,00	0,75	1,14	1,38	1,00	1,14	1,37	1,00	1,15	1,38	1,00	1,13	1,38	0,99
	HOPPER HEIGHT (m)	1,44	1,69	1,82	2,20	2,59	2,97	3,36	3,74	4,12	4,50	4,88	5,27	5,64	6,03
	ROOF HEIGHT (m)	0,85	0,96	1,14	1,37	1,60	1,82	2,01	2,26	2,48	2,45	2,67	2,89	3,02	3,33
	FIXED HEIGHT (m)	3,30	3,41	4,10	4,96	5,18	5,92	6,75	6,99	7,74	8,33	8,55	9,29	10,04	10,35
RING NUMBERS	CYLINDER HEIGHT (m)	CAPACITY (MT)													
1	1,04	10	15	18	28	42	59	81	107	137	174	215	263	318	379
2	2,18	17	24	28	43	61	85	113	146	185	230	282	340	406	480
3	3,33	23	32	38	57	81	110	145	185	233	287	348	417	495	581
4	4,47	29	41	48	71	100	135	176	225	280	343	415	495	583	681
5	5,62	36	50	57	85	119	160	208	264	328	400	481	572	672	782
6	6,76	42	58	67	99	138	185	240	303	375	457	548	649	760	883
7	7,90	48	67	77	113	158	210	272	343	423	513	614	726	849	983
8	9,05	55	75	87	128	177	236	304	382	471	570	681	803	937	1.084
9	10,19	61	84	97	142	196	261	336	421	518	627	747	880	1.026	1.185
10	11,34	67	93	107	156	216	286	368	461	566	683	813	957	1.114	1.285
11	12,48	74	101	116	170	235	311	399	500	613	740	880	1.034	1.202	1.386
12	13,62	80	110	126	184	254	336	431	539	661	796	946	1.111	1.291	1.487
13	14,77	86	118	136	198	273	361	463	579	708	853	1.013	1.188	1.379	1.587
14	15,91	92	127	146	212	293	387	495	618	756	910	1.079	1.265	1.468	1.688
15	17,06	99	135	156	227	312	412	527	657	804	966	1.146	1.342	1.556	1.789

Total height of the silo = cylinder height + fixed height / Fixed height = outlet height + hopper height + roof height

CAPACITY OF 60° HOPPER SILOS							Density= 0,75 t/m3			
	SILO Ø (m)	3,10	3,60	3,80	4,60	5,30	6,10	6,90	7,60	8,40
	OUTLET HEIGHT (m)	1,18	0,74	1,04	1,15	1,03	0,86	1,34	1,20	1,17
	HOPPER HEIGHT (m)	2,41	2,85	3,07	3,59	4,23	5,02	5,68	6,34	7,00
	ROOF HEIGHT (m)	0,85	0,96	1,14	1,37	1,60	1,82	2,01	2,26	2,48
	FIXED HEIGHT (m)	4,44	4,55	5,25	6,11	6,85	7,69	9,03	9,80	10,65
RING NUMBERS	CYLINDER HEIGHT (m)	CAPACITY (MT)								
1	1,04	12	18	22	34	51	74	102	137	177
2	2,18	19	27	31	48	71	100	134	176	225
3	3,33	25	35	41	62	90	125	166	215	273
4	4,47	31	44	51	77	109	150	198	255	320
5	5,62	37	52	61	91	128	175	230	294	368
6	6,76	44	61	71	105	148	200	262	333	415
7	7,90	50	70	81	119	167	225	294	373	463
8	9,05	56	78	90	133	186	251	325	412	511
9	10,19	63	87	100	147	205	276	357	451	558
10	11,34	69	95	110	162	225	301	389	490	606
11	12,48	75	104	120	176	244	326	421	530	653
12	13,62	82	113	130	190	263	351	453	569	701
13	14,77	88	121	140	204	283	376	485	608	748
14	15,91	94	130	149	218	302	402	517	648	796
15	17,06	101	138	159	232	321	427	548	687	844

 Total height of the silo = cylinder height + fixed height
 Fixed height = outlet height + hopper height + roof height

VOLUME OF FLAT BOTTOM SILOS																										
	SILO Ø (m)	4,60	5,30	6,10	6,90	7,60	8,40	9,20	9,90	10,70	11,50	12,20	13,00	13,80	14,50	15,30	16,80	18,30	19,90	21,40	22,90	24,40	26,00	27,50	30,60	32,10
	ROOF HEIGHT (m)	1,37	1,60	1,82	2,01	2,26	2,48	2,45	2,67	2,89	3,02	3,33	3,56	3,78	4,00	4,22	4,66	5,10	5,54	5,88	6,32	6,77	7,21	7,65	8,53	8,95
RING NUMBERS	CYLINDER HEIGHT (m)	VOLUME (m³)																								
4	4,63	84	116	154	197	247	302	365	434	510	593	683	781	886	1.000	1.121	1.389	1.692	2.032	2.409	2.826	3.284	3.786	4.331	5.563	6.205
5	5,77	103	142	187	240	299	366	440	522	613	711	817	932	1.056	1.189	1.331	1.643	1.994	2.386	2.820	3.298	3.821	4.392	5.011	6.402	7.130
6	6,92	122	167	221	282	351	429	516	611	715	829	952	1.084	1.226	1.378	1.541	1.897	2.296	2.741	3.231	3.770	4.358	4.998	5.691	7.241	8.055
7	8,06	141	193	254	324	404	493	591	700	818	947	1.086	1.235	1.396	1.568	1.750	2.151	2.598	3.095	3.642	4.242	4.895	5.604	6.370	8.080	8.980
8	9,20	159	219	288	367	456	556	667	788	921	1.065	1.220	1.387	1.566	1.757	1.960	2.404	2.900	3.449	4.053	4.714	5.432	6.210	7.050	8.919	9.910
9	10,35	178	244	321	409	509	620	742	877	1.024	1.183	1.354	1.539	1.736	1.946	2.170	2.658	3.202	3.804	4.464	5.186	5.969	6.816	7.729	9.758	10.850
10	11,49	197	270	355	452	561	683	818	966	1.126	1.301	1.488	1.690	1.906	2.136	2.380	2.912	3.504	4.158	4.876	5.658	6.506	7.423	8.409	10.597	11.760
11	12,64	216	296	388	494	614	747	893	1.054	1.229	1.419	1.623	1.842	2.076	2.325	2.589	3.166	3.806	4.513	5.287	6.129	7.043	8.029	9.089	11.436	12.685
12	13,78	235	321	422	537	666	810	969	1.143	1.332	1.537	1.757	1.993	2.246	2.514	2.799	3.420	4.109	4.867	5.698	6.601	7.580	8.635	9.768	12.275	13.610
13	14,92	254	347	456	579	719	874	1.044	1.231	1.435	1.655	1.891	2.145	2.415	2.703	3.009	3.673	4.411	5.222	6.109	7.073	8.117	9.241	10.448	13.114	14.535
14	16,07	273	373	489	622	771	937	1.120	1.320	1.538	1.773	2.025	2.296	2.585	2.893	3.219	3.927	4.713	5.576	6.520	7.545	8.654	9.847	11.127	13.953	15.460
15	17,21	292	399	523	664	823	1.000	1.195	1.409	1.640	1.890	2.160	2.448	2.755	3.082	3.428	4.181	5.015	5.931	6.931	8.017	9.191	10.454	11.807	14.792	16.390
16	18,36	310	424	556	707	876	1.064	1.271	1.497	1.743	2.008	2.294	2.599	2.925	3.271	3.638	4.435	5.317	6.285	7.342	8.489	9.728	11.060	12.486	15.631	17.320
17	19,50	329	450	590	749	928	1.127	1.346	1.586	1.846	2.126	2.428	2.751	3.095	3.461	3.848	4.689	5.619	6.640	7.753	8.961	10.265	11.666	13.166	16.470	18.240
18	20,64	348	476	623	792	981	1.191	1.422	1.674	1.949	2.244	2.562	2.902	3.265	3.650	4.058	4.942	5.921	6.994	8.164	9.433	10.802	12.272	13.846	17.309	19.170
19	21,79	367	501	657	834	1.033	1.254	1.497	1.763	2.051	2.362	2.697	3.054	3.435	3.839	4.267	5.196	6.223	7.349	8.575	9.905	11.339	12.878	14.525	18.148	20.100
20	22,93	386	527	690	877	1.086	1.318	1.573	1.852	2.154	2.480	2.831	3.206	3.605	4.028	4.477	5.450	6.525	7.703	8.987	10.377	11.876	13.484	15.205	18.987	21.020
21	24,08	405	553	724	919	1.138	1.381	1.648	1.940	2.257	2.598	2.965	3.357	3.775	4.218	4.687	5.704	6.827	8.058	9.398	10.849	12.413	14.091	15.884	19.826	21.950
22	25,22	424	578	758	962	1.190	1.445	1.724	2.029	2.360	2.716	3.099	3.509	3.944	4.407	4.897	5.958	7.129	8.412	9.809	11.321	12.950	14.697	16.564	20.665	22.870
23	26,36	443	604	791	1.004	1.243	1.508	1.799	2.118	2.463	2.834	3.234	3.660	4.114	4.596	5.106	6.211	7.431	8.767	10.220	11.793	13.486	15.303	17.244	21.504	23.800
24	27,51	461	630	825	1.047	1.295	1.571	1.875	2.206	2.565	2.952	3.368	3.812	4.284	4.786	5.316	6.465	7.733	9.121	10.631	12.265	14.023	15.909	17.923	22.343	24.720
25	28,65	480	655	858	1.089	1.348	1.635	1.950	2.295	2.668	3.070	3.502	3.963	4.454	4.975	5.526	6.719	8.035	9.476	11.042	12.737	14.560	16.515	18.603	23.182	25.650

CAPACITY OF FLAT BOTTOM SILOS													Density= 0,75 t/m³										Total height of the silo = roof height + cylinder height							
	SILO Ø (m)	4,60	5,30	6,10	6,90	7,60	8,40	9,20	9,90	10,70	11,50	12,20	13,00	13,80	14,50	15,30	16,80	18,30	19,90	21,40	22,90	24,40	26,00	27,50	30,60	32,10				
	ROOF HEIGHT (m)	1,37	1,60	1,82	2,01	2,26	2,48	2,45	2,67	2,89	3,02	3,33	3,56	3,78	4,00	4,22	4,66	5,10	5,54	5,88	6,32	6,77	7,21	7,65	8,53	8,95				
RING NUMBERS	CYLINDER HEIGHT (m)	CAPACITY (MT)																												
4	4,63	63	87	115	148	185	227	274	325	382	444	512	586	665	750	841	1.042	1.269	1.524	1.807	2.119	2.463	2.839	3.249	4.172	4.640				
5	5,77	77	106	140	180	224	274	330	392	459	533	613	699	792	892	998	1.232	1.496	1.790	2.115	2.473	2.866	3.294	3.758	4.802	5.380				
6	6,92	91	125	165	211	264	322	387	458	536	621	714	813	920	1.034	1.156	1.423	1.722	2.055	2.423	2.827	3.269	3.748	4.268	5.431	6.115				
7	8,06	105	145	191	243	303	370	443	525	614	710	814	927	1.047	1.176	1.313	1.613	1.949	2.321	2.732	3.181	3.671	4.203	4.778	6.060	6.850				
8	9,20	120	164	216	275	342	417	500	591	691	798	915	1.040	1.174	1.318	1.470	1.803	2.175	2.587	3.040	3.535	4.074	4.658	5.287	6.689	7.590				
9	10,35	134	183	241	307	382	465	557	658	768	887	1.016	1.154	1.302	1.460	1.627	1.994	2.402	2.853	3.348	3.889	4.477	5.112	5.797	7.319	8.330				
10	11,49	148	203	266	339	421	512	613	724	845	975	1.116	1.268	1.429	1.602	1.785	2.184	2.628	3.119	3.657	4.243	4.880	5.567	6.307	7.948	9.060				
11	12,64	162	222	291	371	460	560	670	791	922	1.064	1.217	1.381	1.557	1.744	1.942	2.374	2.855	3.385	3.965	4.597	5.282	6.022	6.816	8.577	9.800				
12	13,78	176	241	317	403	500	608	727	857	999	1.152	1.318	1.495	1.684	1.886	2.099	2.565	3.081	3.651	4.273	4.951	5.685	6.476	7.326	9.206	10.530				
13	14,92	190	260	342	434	539	655	783	924	1.076	1.241	1.418	1.609	1.812	2.028	2.257	2.755	3.308	3.916	4.582	5.305	6.088	6.931	7.836	9.836	11.270				
14	16,07	205	280	367	466	578	703	840	990	1.153	1.329	1.519	1.722	1.939	2.170	2.414	2.945	3.534	4.182	4.890	5.659	6.490	7.386	8.345	10.465	12.000				
15	17,21	219	299	392	498	618	750	897	1.056	1.230	1.418	1.620	1.836	2.066	2.312	2.571	3.136	3.761	4.448	5.198	6.013	6.893	7.840	8.855	11.094	12.740				
16	18,36	233	318	417	530	657	798	953	1.123	1.307	1.506	1.720	1.950	2.194	2.453	2.729	3.326	3.987	4.714	5.507	6.367	7.296	8.295	9.365	11.723	13.480				
17	19,50	247	337	442	562	696	845	1.010	1.189	1.384	1.595	1.821	2.063	2.321	2.595	2.886	3.516	4.214	4.980	5.815	6.721	7.699	8.749	9.875	12.353	14.210				
18	20,64	261	357	468	594	736	893	1.066	1.256	1.461	1.683	1.922	2.177	2.449	2.737	3.043	3.707	4.441	5.246	6.123	7.075	8.101	9.204	10.384	12.982	14.950				
19	21,79	275	376	493	626	775	941	1.123	1.322	1.539	1.772	2.022	2.290	2.576	2.879	3.201	3.897	4.667	5.512	6.432	7.429	8.504	9.659	10.894	13.611	15.690				
20	22,93	289	395	518	657	814	988	1.180	1.389	1.616	1.860	2.123	2.404	2.704	3.021	3.358	4.088	4.894	5.777	6.740	7.783	8.907	10.113	11.404	14.240	16.420				
21	24,08	304	415	543	689	854	1.036	1.236	1.455	1.693	1.949	2.224	2.518	2.831	3.163	3.515	4.278	5.120	6.043	7.048	8.137	9.309	10.568	11.913	14.870	17.160				
22	25,22	318	434	568	721	893	1.083	1.293	1.522	1.770	2.037	2.325	2.631	2.958	3.305	3.673	4.468	5.347	6.309	7.357	8.491	9.712	11.023	12.423	15.499	17.890				
23	26,36	332	453	593	753	932	1.131	1.350	1.588	1.847	2.126	2.425	2.745	3.086	3.447	3.830	4.659	5.573	6.575	7.665	8.845	10.115	11.477	12.933	16.128	18.630				
24	27,51	346	472	619	785	972	1.179	1.406	1.655	1.924	2.214	2.526	2.859	3.213	3.589	3.987	4.849	5.800	6.841	7.973	9.198	10.518	11.932	13.442	16.757	19.360				
25	28,65	360	492	644	817	1.011	1.226	1.463	1.721	2.001	2.303	2.627	2.972	3.341	3.731	4.144	5.039	6.026	7.107	8.282	9.552	10.920	12.386	13.952	17.387	20.100				