

# Detalhamento Técnico

## SILO ELEVADO

DIAMÊTRO NOMINAL (m)	QTD ANEL	MODELO	ALTURA TOTAL (m)	GRÃOS PE 0,60 t/m <sup>3</sup> Compactação 6% e talude de 36°			GRÃOS PE 0,75 t/m <sup>3</sup> Compactação 6% e talude de 27°		
				VOL* (m <sup>3</sup> )	TON	SACAS 50kg	VOL* (m <sup>3</sup> )	TON	SACAS 60kg
Ø 2,74	02	0202	5,09	14	8	160	15	11	183
	03	0203	6,01	19	12	240	20	16	267
	04	0204	6,92	25	15	300	26	20	333
	05	0205	7,84	30	19	380	31	24	400
Ø 3,66	02	0302	5,81	26	16	320	29	22	367
	03	0303	6,73	36	22	440	38	30	500
	04	0304	7,64	45	28	560	48	38	633
	05	0305	8,56	55	34	680	58	45	750
	06	0306	9,47	65	41	820	67	53	883
Ø 4,57	02	0402	6,53	43	27	540	49	38	633
	03	0403	7,45	58	37	740	64	50	833
	04	0404	8,36	74	46	920	79	62	1.033
	05	0405	9,28	89	56	1.120	94	74	1.233
	06	0406	10,19	104	65	1.300	109	86	1.433
	07	0407	11,11	119	75	1.500	124	98	1.633
	08	0408	12,02	134	84	1.680	139	110	1.833
Ø 5,49	02	0502	7,21	66	42	840	76	60	1.000
	03	0503	8,12	88	56	1.120	97	77	1.283
	04	0504	9,03	110	69	1.380	119	94	1.567
	05	0505	9,95	131	83	1.660	141	111	1.850
	06	0506	10,86	153	97	1.940	162	129	2.150
	07	0507	11,78	175	111	2.220	184	146	2.433
	08	0508	12,69	196	124	2.480	206	163	2.717
	09	0509	13,61	218	138	2.760	227	180	3.000
	Ø 6,40	04	0604	10,11	155	98	1.960	170	134
05		0605	11,02	184	117	2.340	199	158	2.633
06		0606	11,93	213	135	2.700	228	181	3.017
07		0607	12,85	243	154	3.080	258	204	3.400
08		0608	13,76	272	173	3.460	287	228	3.800
09		0609	14,68	302	191	3.820	317	251	4.183
10		0610	15,59	331	210	4.200	346	275	4.583
Ø 7,32	04	0704	10,83	209	132	2.640	231	183	3.050
	05	0705	11,74	247	157	3.140	270	214	3.567
	06	0706	12,66	286	181	3.620	308	244	4.067
	07	0707	13,57	324	206	4.120	346	275	4.583
	08	0708	14,48	363	230	4.600	385	305	5.083
	09	0709	15,40	401	255	5.100	423	336	5.600
	10	0710	16,31	439	279	5.580	462	367	6.117
	11	0711	17,23	478	303	6.060	500	397	6.617
	12	0712	18,14	516	328	6.560	539	428	7.133
Ø 9,14	10	0910	18,06	708	450	9.000	752	597	9.950
	11	0911	18,97	768	488	9.760	812	645	10.750
	12	0912	19,88	828	526	10.520	872	692	11.533
	13	0913	20,80	888	564	11.280	932	740	12.333
	14	0914	21,71	948	603	12.060	992	788	13.133
	15	0915	22,63	1.008	641	12.820	1.052	836	13.933
	16	0916	23,54	1.068	679	13.580	1.112	883	14.717
	17	0917	24,46	1.128	717	14.340	1.172	931	15.517
	18	0918	25,37	1.188	755	15.100	1.232	979	16.317
	19	0919	26,29	1.249	794	15.880	1.292	1.027	17.117
20	0920	27,20	1.309	832	16.640	1.352	1.074	17.900	

\* Volume considerando o grau de acomodação natural do grão

# Detalhamento Técnico

## SILO ARMAZENADOR FUNDO PLANO

DIAMÊTRO NOMINAL (m)	QTD ANEL	MODELO	ALTURA TOTAL (m)	GRÃOS PE 0,60 t/m <sup>3</sup> Compactação 6% e talude de 36°			GRÃOS PE 0,75 t/m <sup>3</sup> Compactação 6% e talude de 27°		
				VOL* (m <sup>3</sup> )	TON	SACAS 50kg	VOL* (m <sup>3</sup> )	TON	SACAS 60kg
Ø 9,14	05	0905	7,21	308	195	3.900	351	279	4.650
	06	0906	8,13	368	233	4.660	411	326	5.433
	07	0907	9,04	428	272	5.440	471	374	6.233
	08	0908	9,95	488	310	6.200	531	422	7.033
	09	0909	10,87	548	348	6.960	591	470	7.833
	10	0910	11,78	608	386	7.720	651	517	8.617
	11	0911	12,70	668	424	8.480	712	565	9.417
	12	0912	13,61	728	463	9.260	772	613	10.217
	13	0913	14,53	788	501	10.020	832	661	11.017
Ø 10,97	14	0914	15,44	848	539	10.780	892	708	11.800
	15	0915	16,36	908	577	11.540	952	756	12.600
	06	1106	8,65	532	338	6.760	607	482	8.033
	07	1107	9,57	618	393	7.860	693	551	9.183
	08	1108	10,48	705	448	8.960	780	619	10.317
	09	1109	11,40	791	503	10.060	866	688	11.467
	10	1110	12,31	878	558	11.160	953	757	12.617
	11	1111	13,23	964	613	12.260	1.039	826	13.767
	12	1112	14,14	1.051	668	13.360	1.126	894	14.900
	13	1113	15,05	1.137	723	14.460	1.212	963	16.050
Ø 12,80	14	1114	15,97	1.224	778	15.560	1.299	1.032	17.200
	15	1115	16,88	1.310	833	16.660	1.385	1.101	18.350
	16	1116	17,80	1.397	888	17.760	1.472	1.169	19.483
	17	1117	18,71	1.483	943	18.860	1.558	1.238	20.633
	18	1118	19,63	1.569	998	19.960	1.645	1.307	21.783
	08	1308	11,01	962	612	12.240	1.081	859	14.317
	09	1309	11,93	1.080	686	13.720	1.199	953	15.883
	10	1310	12,84	1.198	761	15.220	1.317	1.046	17.433
	11	1311	13,75	1.315	836	16.720	1.435	1.140	19.000
	12	1312	14,67	1.433	911	18.220	1.552	1.234	20.567
	13	1313	15,58	1.551	986	19.720	1.670	1.327	22.117
	14	1314	16,50	1.668	1.061	21.220	1.788	1.421	23.683
Ø 14,63	15	1315	17,41	1.786	1.135	22.700	1.905	1.514	25.233
	16	1316	18,33	1.904	1.210	24.200	2.023	1.608	26.800
	17	1317	19,24	2.022	1.285	25.700	2.141	1.701	28.350
	18	1318	20,15	2.139	1.360	27.200	2.258	1.795	29.917
	19	1319	21,07	2.257	1.435	28.700	2.376	1.889	31.483
	20	1320	21,98	2.375	1.510	30.200	2.494	1.982	33.033
	08	1408	11,54	1.261	801	16.020	1.439	1.143	19.050
	09	1409	12,45	1.414	899	17.980	1.592	1.265	21.083
10	1410	13,37	1.568	997	19.940	1.746	1.388	23.133	
11	1411	14,28	1.722	1.095	21.900	1.900	1.510	25.167	
12	1412	15,20	1.876	1.192	23.840	2.054	1.632	27.200	
13	1413	16,11	2.029	1.290	25.800	2.207	1.754	29.233	
14	1414	17,03	2.183	1.388	27.760	2.361	1.876	31.267	
15	1415	17,94	2.337	1.486	29.720	2.515	1.999	33.317	
16	1416	18,85	2.491	1.583	31.660	2.668	2.121	35.350	
17	1417	19,77	2.644	1.681	33.620	2.822	2.243	37.383	
18	1418	20,68	2.798	1.779	35.580	2.976	2.365	39.417	
19	1419	21,60	2.952	1.877	37.540	3.130	2.488	41.467	
20	1420	22,51	3.105	1.975	39.500	3.283	2.610	43.500	
21	1421	23,43	3.259	2.072	41.440	3.437	2.732	45.533	
22	1422	24,34	3.413	2.170	43.400	3.591	2.854	47.567	

\* Volume considerando o grau de acomodação natural do grão

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DIAMÊTRO NOMINAL (m)	QTD ANEL	MODELO	ALTURA TOTAL (m)	GRÃOS PE 0,60 t/m³ Compactação 6% e talude de 36°			GRÃOS PE 0,75 t/m³ Compactação 6% e talude de 27°		
				VOL* (m³)	TON	SACAS 50kg	VOL* (m³)	TON	SACAS 60kg
Ø 16,46	10	1610	13,90	1.990	1.265	25.300	2.243	1.783	29.717
	11	1611	14,81	2.184	1.389	27.780	2.438	1.937	32.283
	12	1612	15,72	2.379	1.512	30.240	2.632	2.092	34.867
	13	1613	16,64	2.573	1.636	32.720	2.827	2.247	37.450
	14	1614	17,55	2.768	1.760	35.200	3.021	2.401	40.017
	15	1615	18,47	2.962	1.884	37.680	3.216	2.556	42.600
	16	1616	19,38	3.157	2.007	40.140	3.410	2.711	45.183
	17	1617	20,30	3.352	2.131	42.620	3.605	2.865	47.750
	18	1618	21,21	3.546	2.255	45.100	3.799	3.020	50.333
	19	1619	22,12	3.741	2.379	47.580	3.994	3.175	52.917
	20	1620	23,04	3.935	2.502	50.040	4.189	3.329	55.483
	21	1621	23,95	4.130	2.626	52.520	4.383	3.484	58.067
22	1622	24,87	4.324	2.750	55.000	4.578	3.639	60.650	
Ø 18,29	10	1810	14,42	2.462	1.566	31.320	2.810	2.233	37.217
	11	1811	15,34	2.703	1.718	34.360	3.050	2.424	40.400
	12	1812	16,25	2.943	1.871	37.420	3.290	2.615	43.583
	13	1813	17,17	3.183	2.024	40.480	3.530	2.806	46.767
	14	1814	18,08	3.423	2.177	43.540	3.771	2.997	49.950
	15	1815	19,00	3.663	2.329	46.580	4.011	3.188	53.133
	16	1816	19,91	3.904	2.482	49.640	4.251	3.379	56.317
	17	1817	20,82	4.144	2.635	52.700	4.491	3.570	59.500
	18	1818	21,74	4.384	2.788	55.760	4.731	3.761	62.683
	19	1819	22,65	4.624	2.940	58.800	4.972	3.952	65.867
	20	1820	23,57	4.864	3.093	61.860	5.212	4.143	69.050
	21	1821	24,48	5.104	3.246	64.920	5.452	4.334	72.233
22	1822	25,40	5.345	3.399	67.980	5.692	4.525	75.417	
Ø 21,95	10	2210	15,48	3.563	2.266	45.320	4.164	3.310	55.167
	11	2211	16,39	3.909	2.486	49.720	4.510	3.585	59.750
	12	2212	17,31	4.255	2.706	54.120	4.855	3.860	64.333
	13	2213	18,22	4.601	2.926	58.520	5.201	4.135	68.917
	14	2214	19,14	4.947	3.146	62.920	5.547	4.410	73.500
	15	2215	20,05	5.293	3.366	67.320	5.893	4.684	78.067
	16	2216	20,97	5.638	3.586	71.720	6.239	4.959	82.650
	17	2217	21,88	5.984	3.806	76.120	6.585	5.234	87.233
	18	2218	22,79	6.330	4.026	80.520	6.931	5.509	91.817
	19	2219	23,71	6.676	4.245	84.900	7.277	5.784	96.400
	20	2220	24,62	7.022	4.465	89.300	7.622	6.059	100.983
	21	2221	25,54	7.368	4.685	93.700	7.968	6.334	105.567
22	2222	26,45	7.714	4.905	98.100	8.314	6.609	110.150	
Ø 27,43	16	2716	22,55	8.851	5.629	112.580	10.024	7.968	132.800
	17	2717	23,46	9.391	5.972	119.440	10.564	8.398	139.967
	18	2718	24,38	9.932	6.316	126.320	11.105	8.828	147.133
	19	2719	25,29	10.472	6.660	133.200	11.645	9.257	154.283
	20	2720	26,21	11.013	7.004	140.080	12.185	9.687	161.450
	21	2721	27,12	11.553	7.347	146.940	12.726	10.117	168.617
22	2722	28,04	12.093	7.691	153.820	13.266	10.546	175.767	

\* Volume considerando o grau de acomodação natural do grão