



Table I
Fire Resistance Period: 30 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	2.524	1.581	0.708	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
3.5	2.348	1.491	0.703	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
4.0	2.055	1.342	0.694	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
4.5	1.762	1.193	0.686	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
5.0	1.468	1.044	0.678	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
5.5	1.175	0.895	0.669	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
6.0	0.882	0.746	0.661	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
6.3	0.706	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
6.5	0.705	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
7.0	0.703	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
7.5	0.700	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
8.0	0.697	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
8.5	0.695	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
9.0	0.692	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
9.5	0.690	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
10.0	0.687	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
10.5	0.684	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
11.0	0.682	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
11.5	0.679	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
12.0	0.677	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
12.5	0.674	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
13.0	0.672	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
13.5	0.669	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
14.0	0.666	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
14.5	0.664	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
15.0	0.661	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
15.5	0.659	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
16.0	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656

- Tables are applicable to circular and square concrete filled hollow columns
- Tables are applicable to columns of 88.9 mm diameter/width and higher.

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Table 2
Fire Resistance Period: 45 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	2.539	2.479	1.698	1.637	0.656	0.656	0.656	0.656	0.656
3.5	-	-	-	-	-	2.357	2.303	1.597	1.542	0.656	0.656	0.656	0.656	0.656
4.0	-	-	-	-	-	2.053	2.009	1.429	1.384	0.656	0.656	0.656	0.656	0.656
4.5	-	-	-	-	-	1.750	1.715	1.261	1.225	0.656	0.656	0.656	0.656	0.656
5.0	-	-	-	-	-	1.446	1.420	1.093	1.067	0.656	0.656	0.656	0.656	0.656
5.5	-	-	-	-	-	1.142	1.126	0.925	0.909	0.656	0.656	0.656	0.656	0.656
6.0	-	-	-	-	-	0.838	0.832	0.757	0.751	0.656	0.656	0.656	0.656	0.656
6.3	1.312	0.974	0.743	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
6.5	1.306	0.969	0.742	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
7.0	1.291	0.954	0.737	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
7.5	1.277	0.939	0.733	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
8.0	1.262	0.924	0.728	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
8.5	1.247	0.909	0.724	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
9.0	1.233	0.894	0.719	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
9.5	1.218	0.880	0.715	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
10.0	1.203	0.865	0.710	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
10.5	1.189	0.850	0.706	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
11.0	1.174	0.835	0.701	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
11.5	1.159	0.820	0.697	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
12.0	1.145	0.805	0.692	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
12.5	1.130	0.791	0.688	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
13.0	1.115	0.776	0.683	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
13.5	1.101	0.761	0.679	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
14.0	1.086	0.746	0.674	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
14.5	1.071	0.731	0.670	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
15.0	1.057	0.716	0.665	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
15.5	1.042	0.702	0.661	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656
16.0	1.027	0.687	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656

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Table 3
Fire Resistance Period: 60 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	-	-	-	-	-	-	1.953	0.752	0.656
3.5	-	-	-	-	-	-	-	-	-	-	-	1.828	0.743	0.656
4.0	-	-	-	-	-	-	-	-	-	-	-	1.618	0.727	0.656
4.5	-	-	-	-	-	-	-	-	-	-	-	1.409	0.712	0.656
5.0	-	-	-	-	-	-	-	-	-	-	-	1.200	0.696	0.656
5.5	-	-	-	-	-	-	-	-	-	-	-	0.991	0.681	0.656
6.0	-	-	-	-	-	-	-	-	-	-	-	0.782	0.665	0.656
6.3	1.917	1.516	1.228	0.993	0.936	0.888	0.881	0.741	0.727	0.656	0.656	0.656	0.656	0.656
6.5	1.911	1.511	1.217	0.986	0.930	0.884	0.877	0.739	0.725	0.656	0.656	0.656	0.656	0.656
7.0	1.897	1.496	1.187	0.968	0.915	0.872	0.865	0.734	0.721	0.656	0.656	0.656	0.656	0.656
7.5	1.882	1.482	1.158	0.951	0.901	0.860	0.853	0.730	0.718	0.656	0.656	0.656	0.656	0.656
8.0	1.867	1.468	1.128	0.934	0.887	0.848	0.842	0.726	0.714	0.656	0.656	0.656	0.656	0.656
8.5	1.852	1.453	1.099	0.916	0.872	0.836	0.830	0.721	0.711	0.656	0.656	0.656	0.656	0.656
9.0	1.837	1.439	1.069	0.899	0.858	0.824	0.819	0.717	0.707	0.656	0.656	0.656	0.656	0.656
9.5	1.822	1.425	1.040	0.882	0.843	0.812	0.807	0.713	0.703	0.656	0.656	0.656	0.656	0.656
10.0	1.808	1.411	1.010	0.864	0.829	0.800	0.795	0.708	0.700	0.656	0.656	0.656	0.656	0.656
10.5	1.793	1.396	0.981	0.847	0.814	0.788	0.784	0.704	0.696	0.656	0.656	0.656	0.656	0.656
11.0	1.778	1.382	0.951	0.830	0.800	0.776	0.772	0.700	0.692	0.656	0.656	0.656	0.656	0.656
11.5	1.763	1.368	0.922	0.812	0.786	0.764	0.760	0.695	0.689	0.656	0.656	0.656	0.656	0.656
12.0	1.748	1.354	0.892	0.795	0.771	0.752	0.749	0.691	0.685	0.656	0.656	0.656	0.656	0.656
12.5	1.734	1.339	0.863	0.777	0.757	0.740	0.737	0.687	0.681	0.656	0.656	0.656	0.656	0.656
13.0	1.719	1.325	0.833	0.760	0.742	0.728	0.726	0.682	0.678	0.656	0.656	0.656	0.656	0.656
13.5	1.704	1.311	0.804	0.743	0.728	0.716	0.714	0.678	0.674	0.656	0.656	0.656	0.656	0.656
14.0	1.689	1.297	0.774	0.725	0.714	0.704	0.702	0.673	0.671	0.656	0.656	0.656	0.656	0.656
14.5	1.674	1.282	0.745	0.708	0.699	0.692	0.691	0.669	0.667	0.656	0.656	0.656	0.656	0.656
15.0	1.659	1.268	0.715	0.691	0.685	0.680	0.679	0.665	0.663	0.656	0.656	0.656	0.656	0.656
15.5	1.645	1.254	0.686	0.673	0.670	0.668	0.668	0.660	0.660	0.656	0.656	0.656	0.656	0.656
16.0	1.630	1.239	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656	0.656

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Table 4
Fire Resistance Period: 75 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	2.011
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1.880
4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.662
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1.443
5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.224
5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	1.006
6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.787
6.3	2.523	2.058	1.713	1.444	1.382	1.320	1.309	1.130	1.113	0.883	0.795	0.672	0.656	0.656
6.5	2.517	2.053	1.708	1.438	1.375	1.314	1.303	1.124	1.107	0.878	0.792	0.671	0.656	0.656
7.0	2.502	2.039	1.695	1.423	1.359	1.298	1.287	1.109	1.093	0.867	0.785	0.671	0.656	0.656
7.5	2.487	2.025	1.683	1.407	1.344	1.282	1.271	1.094	1.078	0.855	0.778	0.670	0.656	0.656
8.0	2.472	2.011	1.670	1.392	1.328	1.266	1.256	1.079	1.063	0.843	0.771	0.669	0.656	0.656
8.5	2.457	1.998	1.657	1.377	1.312	1.251	1.240	1.064	1.049	0.832	0.763	0.668	0.656	0.656
9.0	2.442	1.984	1.645	1.361	1.296	1.235	1.224	1.050	1.034	0.820	0.756	0.667	0.656	0.656
9.5	2.427	1.970	1.632	1.346	1.280	1.219	1.209	1.035	1.019	0.808	0.749	0.666	0.656	0.656
10.0	2.412	1.957	1.619	1.331	1.264	1.203	1.193	1.020	1.005	0.796	0.742	0.666	0.656	0.656
10.5	2.397	1.943	1.606	1.315	1.248	1.187	1.177	1.005	0.990	0.785	0.735	0.665	0.656	0.656
11.0	2.382	1.929	1.594	1.300	1.232	1.171	1.161	0.990	0.975	0.773	0.728	0.664	0.656	0.656
11.5	2.367	1.916	1.581	1.285	1.216	1.156	1.146	0.976	0.960	0.761	0.720	0.663	0.656	0.656
12.0	2.352	1.902	1.568	1.269	1.200	1.140	1.130	0.961	0.946	0.750	0.713	0.662	0.656	0.656
12.5	2.337	1.888	1.555	1.254	1.184	1.124	1.114	0.946	0.931	0.738	0.706	0.662	0.656	0.656
13.0	2.322	1.874	1.543	1.239	1.168	1.108	1.099	0.931	0.916	0.726	0.699	0.661	0.656	0.656
13.5	2.307	1.861	1.530	1.223	1.152	1.092	1.083	0.916	0.902	0.715	0.692	0.660	0.656	0.656
14.0	2.292	1.847	1.517	1.208	1.136	1.077	1.067	0.901	0.887	0.703	0.685	0.659	0.656	0.656
14.5	2.277	1.833	1.505	1.193	1.120	1.061	1.052	0.887	0.872	0.691	0.677	0.658	0.656	0.656
15.0	2.262	1.820	1.492	1.177	1.104	1.045	1.036	0.872	0.858	0.679	0.670	0.658	0.656	0.656
15.5	2.247	1.806	1.479	1.162	1.088	1.029	1.020	0.857	0.843	0.668	0.663	0.657	0.656	0.656
16.0	2.232	1.792	1.466	1.147	1.072	1.013	1.004	0.842	0.828	0.656	0.656	0.656	0.656	0.656

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Table 5
Fire Resistance Period: 90 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3	-	2.600	2.198	1.895	1.828	1.752	1.737	1.519	1.500	1.227	1.127	0.989	0.743	0.656
6.5	-	2.595	2.194	1.890	1.822	1.746	1.731	1.513	1.495	1.221	1.121	0.983	0.741	0.656
7.0	-	2.581	2.183	1.876	1.808	1.732	1.717	1.500	1.481	1.208	1.107	0.968	0.736	0.656
7.5	-	2.568	2.173	1.863	1.794	1.718	1.703	1.486	1.468	1.194	1.094	0.953	0.732	0.656
8.0	-	2.555	2.162	1.849	1.779	1.703	1.689	1.472	1.454	1.181	1.080	0.938	0.728	0.656
8.5	-	2.542	2.151	1.836	1.765	1.689	1.675	1.459	1.441	1.167	1.067	0.923	0.723	0.656
9.0	-	2.529	2.141	1.822	1.751	1.675	1.660	1.445	1.427	1.154	1.053	0.908	0.719	0.656
9.5	-	2.516	2.130	1.809	1.736	1.660	1.646	1.431	1.414	1.141	1.039	0.894	0.714	0.656
10.0	-	2.503	2.119	1.795	1.722	1.646	1.632	1.418	1.400	1.127	1.026	0.879	0.710	0.656
10.5	-	2.489	2.109	1.782	1.708	1.632	1.618	1.404	1.387	1.114	1.012	0.864	0.705	0.656
11.0	-	2.476	2.098	1.768	1.693	1.617	1.603	1.390	1.373	1.100	0.998	0.849	0.701	0.656
11.5	-	2.463	2.087	1.755	1.679	1.603	1.589	1.377	1.360	1.087	0.985	0.834	0.696	0.656
12.0	-	2.450	2.077	1.741	1.665	1.589	1.575	1.363	1.347	1.073	0.971	0.819	0.692	0.656
12.5	-	2.437	2.066	1.728	1.650	1.575	1.561	1.349	1.333	1.060	0.958	0.805	0.687	0.656
13.0	-	2.424	2.055	1.714	1.636	1.560	1.546	1.336	1.320	1.046	0.944	0.790	0.683	0.656
13.5	-	2.411	2.045	1.701	1.622	1.546	1.532	1.322	1.306	1.033	0.930	0.775	0.678	0.656
14.0	-	2.398	2.034	1.687	1.607	1.532	1.518	1.308	1.293	1.019	0.917	0.760	0.674	0.656
14.5	-	2.384	2.023	1.674	1.593	1.517	1.504	1.295	1.279	1.006	0.903	0.745	0.669	0.656
15.0	-	2.371	2.013	1.660	1.579	1.503	1.490	1.281	1.266	0.993	0.889	0.730	0.665	0.656
15.5	-	2.358	2.002	1.647	1.564	1.489	1.475	1.267	1.252	0.979	0.876	0.715	0.660	0.656
16.0	-	2.345	1.991	1.633	1.550	1.474	1.461	1.254	1.239	0.966	0.862	0.701	0.656	0.656

- Tables are applicable to circular and square concrete filled hollow columns
- Tables are applicable to columns of 88.9 mm diameter/width and higher.

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Table 6
Fire Resistance Period: 105 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3	-	-	2.683	2.347	2.275	2.184	2.165	1.908	1.887	1.570	1.458	1.306	1.031	0.783
6.5	-	-	2.680	2.342	2.269	2.179	2.160	1.903	1.882	1.566	1.453	1.300	1.026	0.780
7.0	-	-	2.671	2.330	2.257	2.166	2.147	1.890	1.870	1.554	1.441	1.287	1.012	0.774
7.5	-	-	2.663	2.319	2.244	2.153	2.135	1.878	1.858	1.542	1.429	1.274	0.999	0.767
8.0	-	-	2.654	2.307	2.231	2.140	2.122	1.865	1.845	1.530	1.417	1.261	0.985	0.761
8.5	-	-	2.645	2.295	2.219	2.127	2.109	1.853	1.833	1.519	1.405	1.248	0.971	0.754
9.0	-	-	2.637	2.283	2.206	2.115	2.096	1.840	1.821	1.507	1.393	1.234	0.958	0.747
9.5	-	-	2.628	2.272	2.193	2.102	2.084	1.828	1.809	1.495	1.381	1.221	0.944	0.741
10.0	-	-	2.620	2.260	2.181	2.089	2.071	1.815	1.796	1.484	1.369	1.208	0.930	0.734
10.5	-	-	2.611	2.248	2.168	2.076	2.058	1.803	1.784	1.472	1.357	1.195	0.917	0.728
11.0	-	-	2.602	2.237	2.155	2.063	2.045	1.790	1.772	1.460	1.345	1.181	0.903	0.721
11.5	-	-	2.594	2.225	2.142	2.051	2.033	1.778	1.760	1.449	1.333	1.168	0.889	0.715
12.0	-	-	2.585	2.213	2.130	2.038	2.020	1.765	1.747	1.437	1.321	1.155	0.876	0.708
12.5	-	-	2.577	2.202	2.117	2.025	2.007	1.753	1.735	1.425	1.309	1.142	0.862	0.702
13.0	-	-	2.568	2.190	2.104	2.012	1.994	1.740	1.723	1.413	1.297	1.128	0.848	0.695
13.5	-	-	2.560	2.178	2.092	1.999	1.982	1.728	1.710	1.402	1.285	1.115	0.835	0.689
14.0	-	-	2.551	2.166	2.079	1.987	1.969	1.715	1.698	1.390	1.273	1.102	0.821	0.682
14.5	-	-	2.542	2.155	2.066	1.974	1.956	1.703	1.686	1.378	1.261	1.089	0.808	0.676
15.0	-	-	2.534	2.143	2.053	1.961	1.943	1.690	1.674	1.367	1.249	1.076	0.794	0.669
15.5	-	-	2.525	2.131	2.041	1.948	1.931	1.678	1.661	1.355	1.237	1.062	0.780	0.663
16.0	-	-	2.517	2.120	2.028	1.936	1.918	1.665	1.649	1.343	1.225	1.049	0.767	0.656

- Tables are applicable to circular and square concrete filled hollow columns
- Tables are applicable to columns of 88.9 mm diameter/width and higher.

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Table 7
Fire Resistance Period: 120 Minutes

Thickness (mm) Required for a Design Temperature of

Wall Thickness (mm)	350°C	400°C	450°C	500°C	512°C	520°C	521°C	547°C	550°C	600°C	620°C	650°C	700°C	750°C
	DFT (mm)													
3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3	-	-	-	2.798	2.721	2.615	2.593	2.297	2.274	1.914	1.790	1.623	1.320	1.064
6.5	-	-	-	2.794	2.716	2.611	2.589	2.293	2.270	1.910	1.786	1.618	1.315	1.058
7.0	-	-	-	2.784	2.705	2.600	2.577	2.281	2.258	1.900	1.775	1.607	1.304	1.041
7.5	-	-	-	2.774	2.694	2.588	2.566	2.270	2.247	1.890	1.765	1.595	1.292	1.025
8.0	-	-	-	2.764	2.683	2.577	2.555	2.259	2.236	1.880	1.754	1.583	1.280	1.008
8.5	-	-	-	2.754	2.672	2.566	2.544	2.247	2.225	1.870	1.744	1.572	1.269	0.992
9.0	-	-	-	2.745	2.661	2.555	2.532	2.236	2.214	1.860	1.734	1.560	1.257	0.975
9.5	-	-	-	2.735	2.650	2.543	2.521	2.224	2.203	1.850	1.723	1.549	1.245	0.959
10.0	-	-	-	2.725	2.639	2.532	2.510	2.213	2.192	1.840	1.713	1.537	1.234	0.942
10.5	-	-	-	2.715	2.628	2.521	2.498	2.202	2.181	1.830	1.703	1.525	1.222	0.926
11.0	-	-	-	2.705	2.617	2.509	2.487	2.190	2.170	1.820	1.692	1.514	1.211	0.909
11.5	-	-	-	2.695	2.606	2.498	2.476	2.179	2.159	1.810	1.682	1.502	1.199	0.893
12.0	-	-	-	2.685	2.595	2.487	2.465	2.168	2.148	1.800	1.672	1.491	1.187	0.876
12.5	-	-	-	2.675	2.584	2.476	2.453	2.156	2.137	1.790	1.661	1.479	1.176	0.860
13.0	-	-	-	2.665	2.573	2.464	2.442	2.145	2.126	1.780	1.651	1.467	1.164	0.844
13.5	-	-	-	2.656	2.561	2.453	2.431	2.134	2.115	1.771	1.640	1.456	1.152	0.827
14.0	-	-	-	2.646	2.550	2.442	2.420	2.122	2.104	1.761	1.630	1.444	1.141	0.811
14.5	-	-	-	2.636	2.539	2.430	2.408	2.111	2.093	1.751	1.620	1.433	1.129	0.794
15.0	-	-	-	2.626	2.528	2.419	2.397	2.100	2.082	1.741	1.609	1.421	1.117	0.778
15.5	-	-	-	2.616	2.517	2.408	2.386	2.088	2.071	1.731	1.599	1.409	1.106	0.761
16.0	-	-	-	2.606	2.506	2.397	2.375	2.077	2.060	1.721	1.589	1.398	1.094	0.745

- Tables are applicable to circular and square concrete filled hollow columns
- Tables are applicable to columns of 88.9 mm diameter/width and higher.

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