

File S2

Coefficients for Calculating Deflection and Change in Cavity Volume in IGUs.

Table S2-1. Coefficients α'_w used to calculate the deflection in the glass pane center.

$\varepsilon =$ b/a	Index $R_c = 2\pi \cdot D/(a \cdot C)$								
	Simply support	100	10	5	2	1	0.5	0.1	Clamped fixity
1.0	0.00406241	0.00401321	0.00363803	0.00332608	0.00274479	0.00227349	0.00188264	0.00141686	0.00126538
1.1	0.00486901	0.00480711	0.00433851	0.00395346	0.00324670	0.00268366	0.00222329	0.00168225	0.00150813
1.2	0.00565059	0.00557528	0.00500905	0.00454874	0.00371524	0.00306148	0.00253346	0.00192039	0.00172493
1.3	0.00639227	0.00630313	0.00563708	0.00510093	0.00414195	0.00340014	0.00280753	0.00212685	0.00191169
1.4	0.00708497	0.00698184	0.00621559	0.00560437	0.00452323	0.00369741	0.00304415	0.00230117	0.00206821
1.5	0.00772408	0.00760699	0.00674171	0.00605727	0.00485896	0.00395411	0.00324476	0.00244536	0.00219659
1.6	0.00830817	0.00817737	0.00721548	0.00646053	0.00515117	0.00417288	0.00341236	0.00256260	0.00230003
1.7	0.00883806	0.00869392	0.00763881	0.00681665	0.00540313	0.00435733	0.00355063	0.00265652	0.00238209
1.8	0.00931597	0.00915898	0.00801473	0.00712910	0.00561871	0.00451139	0.00366344	0.00273071	0.00244623
1.9	0.00974501	0.00957574	0.00834691	0.00740176	0.00580194	0.00463900	0.00375452	0.00278852	0.00249561
2.0	0.01012872	0.00994779	0.00863922	0.00763861	0.00595675	0.00474386	0.00382728	0.00283290	0.00253303
3.0	0.01223287	0.01197022	0.01012056	0.00876417	0.00659504	0.00511680	0.00404880	0.00294066	0.00261743
5.0	0.01297089	0.01265996	0.01051828	0.00899996	0.00665935	0.00512151	0.00403573	0.00292681	0.00260568

Table S2-2. Coefficients α'_v used to calculate the change in cavity volume (own research).

$\varepsilon =$ b/a	Index $R_c = 2\pi \cdot D/(a \cdot C)$								
	Simply support	100	10	5	2	1	0.5	0.1	Clamped fixity
1.0	0.00170250	0.00167930	0.00150240	0.00135537	0.00108159	0.00085993	0.00067656	0.00045922	0.00038912
1.1	0.00224595	0.00221385	0.00197093	0.00177140	0.00140548	0.00111444	0.00087711	0.00059977	0.00051124
1.2	0.00284803	0.00280548	0.00248566	0.00222581	0.00175577	0.00138783	0.00109156	0.00074966	0.00064154
1.3	0.00349885	0.00344439	0.00303753	0.00271025	0.00212560	0.00167445	0.00131529	0.00090539	0.00077684
1.4	0.00418939	0.00412165	0.00361855	0.00321757	0.00250937	0.00196991	0.00154479	0.00106442	0.00091490
1.5	0.00491177	0.00482953	0.00422202	0.00374192	0.00290275	0.00227097	0.00177763	0.00122512	0.00105429
1.6	0.00565937	0.00556155	0.00484251	0.00427871	0.00330255	0.00257540	0.00201223	0.00138651	0.00119420
1.7	0.00642676	0.00631241	0.00547577	0.00482446	0.00370651	0.00288170	0.00224760	0.00154806	0.00133416
1.8	0.00720956	0.00707787	0.00611848	0.00537655	0.00411305	0.00318894	0.00248320	0.00170949	0.00147400
1.9	0.00800429	0.00785458	0.00676815	0.00593307	0.00452114	0.00349657	0.00271873	0.00187071	0.00161364
2.0	0.00880821	0.00863990	0.00742289	0.00649266	0.00493010	0.00380426	0.00295408	0.00203172	0.00175309
3.0	0.01705529	0.01668480	0.01406769	0.01213768	0.00902410	0.00687420	0.00529944	0.00363642	0.00314329
5.0	0.03371665	0.03292410	0.02741377	0.02344549	0.01720473	0.01300561	0.00998443	0.00684346	0.00592211