

Size guidelines and feasibility tables for Insulating Glass units



Mar-19

Maximum Sealed units sizes - guidelines and explanation

Clayton Glass aim to offer a wide range of sealed units and to offer advice accordingly, within the bounds of building control and safety both here in our factory and on site. As a largely domestic unit manufacturer however it isn't practical for us to operate and maintain the scale of equipment required for certain larger units (be it in maximum dimension, area, weight or a combination thereof) - when these items represent only a fraction of a percent of our sales.

We do recognise though, that for most of our customer base we are **the** glass supplier, and hence we both have an obligation and are happy to provide advice and to source product externally, promptly, and cost effectively where our in house manufacturing sizes are exceeded.

Our commitment in this respect is as follows -

We will advise **up front** what our capabilities are for each product type, ie what can be made in house and sold at the rates on your existing tariff, at standard lead times

Where we cannot make we will advise at the time of order that the product will be outsourced, and within 48 hours -

We will give a due date, being as soon as possible and typical not exceeding 10 working days

We will provide costings, to include a minimum handling charge only

At this point subject to your confirmation and acceptance we will source the glass and deliver and invoice in the usual way

The following tables offer a guide to sealed unit availability across the range of 4mm, 6mm & 6.8 laminate glasses we hold. Where the size you want is shown as non-feasible, please refer to the next specification up until your size is met, detailing this build-up on your order - should you request a non-feasible product we will advise and with your agreement amend your order to suite. Note for most large units a minimum cavity of 16mm will apply. On the limited occasions where we are not able to offer a unit in any glass type, the process will be as as described above. Please note these tables are a guide only, and we remain available to discuss the available options. It is important to note however, particularly for your sales teams and in pricing jobs, that these will most likely **not** be subject to standard rates and are POA.

Our production planning team remain available to discuss and advise at any time, in the first instance please contact Joanne Honour on **01207 288 200**.

Feasibility tables - 2 x 4mm Annealed*

Feasible	Not Feasible
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Width up to		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3000+
Height up to	100	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.2	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.3	
	200	0.02	0.04	0.06	0.08	0.1	0.12	0.14	0.16	0.18	0.2	0.22	0.24	0.26	0.28	0.3	0.32	0.34	0.36	0.38	0.4	0.42	0.44	0.46	0.48	0.5	0.52	0.54	0.56	0.58	0.6	
	300	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27	0.3	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.54	0.57	0.6	0.63	0.66	0.69	0.72	0.75	0.78	0.81	0.84	0.87	0.9	
	400	0.04	0.08	0.12	0.16	0.2	0.24	0.28	0.32	0.36	0.4	0.44	0.48	0.52	0.56	0.6	0.64	0.68	0.72	0.76	0.8	0.84	0.88	0.92	0.96	1	1.04	1.08	1.12	1.16	1.2	
	500	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	
	600	0.06	0.12	0.18	0.24	0.3	0.36	0.42	0.48	0.54	0.6	0.66	0.72	0.78	0.84	0.9	0.96	1.02	1.08	1.14	1.2	1.26	1.32	1.38	1.44	1.5	1.56	1.62	1.68	1.74	1.8	
	700	0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.7	0.77	0.84	0.91	0.98	1.05	1.12	1.19	1.26	1.33	1.4	1.47	1.54	1.61	1.68	1.75	1.82	1.89	1.96	2.03	2.1	
	800	0.08	0.16	0.24	0.32	0.4	0.48	0.56	0.64	0.72	0.8	0.88	0.96	1.04	1.12	1.2	1.28	1.36	1.44	1.52	1.6	1.68	1.76	1.84	1.92	2	2.08	2.16	2.24	2.32	2.4	
	900	0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.9	0.99	1.08	1.17	1.26	1.35	1.44	1.53	1.62	1.71	1.8	1.89	1.98	2.07	2.16	2.25	2.34	2.43	2.52	2.61	2.7	
	1000	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	
	1100	0.11	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.1	1.21	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.2	2.31	2.42	2.53	2.64	2.75	2.86	2.97	3.08	3.19	3.3	
	1200	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2	1.32	1.44	1.56	1.68	1.8	1.92	2.04	2.16	2.28	2.4	2.52	2.64	2.76	2.88	3	3.12	3.24	3.36	3.48	3.6	
	1300	0.13	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.17	1.3	1.43	1.56	1.69	1.82	1.95	2.08	2.21	2.34	2.47	2.6	2.73	2.86	2.99	3.12	3.25	3.38	3.51	3.64	3.77	3.9	
	1400	0.14	0.28	0.42	0.56	0.7	0.84	0.98	1.12	1.26	1.4	1.54	1.68	1.82	1.96	2.1	2.24	2.38	2.52	2.66	2.8	2.94	3.08	3.22	3.36	3.5	3.64	3.78	3.92	4.06	4.2	
	1500	0.15	0.3	0.45	0.6	0.75	0.9	1.05	1.2	1.35	1.5	1.65	1.8	1.95	2.1	2.25	2.4	2.55	2.7	2.85	3	3.15	3.3	3.45	3.6	3.75	3.9	4.05	4.2	4.35	4.5	
	1600	0.16	0.32	0.48	0.64	0.8	0.96	1.12	1.28	1.44	1.6	1.76	1.92	2.08	2.24	2.4	2.56	2.72	2.88	3.04	3.2	3.36	3.52	3.68	3.84	4	4.16	4.32	4.48	4.64	4.8	
	1700	0.17	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.53	1.7	1.87	2.04	2.21	2.38	2.55	2.72	2.89	3.06	3.23	3.4	3.57	3.74	3.91	4.08	4.25	4.42	4.59	4.76	4.93	5.1	
	1800	0.18	0.36	0.54	0.72	0.9	1.08	1.26	1.44	1.62	1.8	1.98	2.16	2.34	2.52	2.7	2.88	3.06	3.24	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.4	
	1900	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9	2.09	2.28	2.47	2.66	2.85	3.04	3.23	3.42	3.61	3.8	3.99	4.18	4.37	4.56	4.75	4.94	5.13	5.32	5.51	5.7	
	2000	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2	5.4	5.6	5.8	6	
	2100	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.1	2.31	2.52	2.73	2.94	3.15	3.36	3.57	3.78	3.99	4.2	4.41	4.62	4.83	5.04	5.25	5.46	5.67	5.88	6.09	6.3	
	2200	0.22	0.44	0.66	0.88	1.1	1.32	1.54	1.76	1.98	2.2	2.42	2.64	2.86	3.08	3.3	3.52	3.74	3.96	4.18	Maximum area for 2x4mm Annealed is < 2.25m ² . Max Line Height 1500, Length 2500. Upgrade to 4mm Toughened or 6mm Annealed as appropriate										6.38	6.6
	2300	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.84	2.07	2.3	2.53	2.76	2.99	3.22	3.45	3.68	3.91	4.14	4.37											6.67	6.9
	2400	0.24	0.48	0.72	0.96	1.2	1.44	1.68	1.92	2.16	2.4	2.64	2.88	3.12	3.36	3.6	3.84	4.08	4.32	4.56											6.96	7.2
	2500	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.25	4.5	4.75											7.25	7.5
	2600	0.26	0.52	0.78	1.04	1.3	1.56	1.82	2.08	2.34	2.6	2.86	3.12	3.38	3.64	3.9	4.16	4.42	4.68	4.94											7.54	7.8
	2700	0.27	0.54	0.81	1.08	1.35	1.62	1.89	2.16	2.43	2.7	2.97	3.24	3.51	3.78	4.05	4.32	4.59	4.86	5.13											7.83	8.1
	2800	0.28	0.56	0.84	1.12	1.4	1.68	1.96	2.24	2.52	2.8	3.08	3.36	3.64	3.92	4.2	4.48	4.76	5.04	5.32	8.12	8.4										
	2900	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9	3.19	3.48	3.77	4.06	4.35	4.64	4.93	5.22	5.51	5.8	6.09	6.38	6.67	6.96	7.25	7.54	7.83	8.12	8.41	8.7	
	3000	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	
3000+																																

*regardless of size annealed product can only be specified in non-critical glazing locations

Feasibility tables - 2 x 6mm Annealed* & 6.8mm laminated

Feasible	Not Feasible
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Width up to		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3000+
Height up to	100	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.2	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.3	
	200	0.02	0.04	0.06	0.08	0.1	0.12	0.14	0.16	0.18	0.2	0.22	0.24	0.26	0.28	0.3	0.32	0.34	0.36	0.38	0.4	0.42	0.44	0.46	0.48	0.5	0.52	0.54	0.56	0.58	0.6	
	300	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27	0.3	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.54	0.57	0.6	0.63	0.66	0.69	0.72	0.75	0.78	0.81	0.84	0.87	0.9	
	400	0.04	0.08	0.12	0.16	0.2	0.24	0.28	0.32	0.36	0.4	0.44	0.48	0.52	0.56	0.6	0.64	0.68	0.72	0.76	0.8	0.84	0.88	0.92	0.96	1	1.04	1.08	1.12	1.16	1.2	
	500	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	
	600	0.06	0.12	0.18	0.24	0.3	0.36	0.42	0.48	0.54	0.6	0.66	0.72	0.78	0.84	0.9	0.96	1.02	1.08	1.14	1.2	1.26	1.32	1.38	1.44	1.5	1.56	1.62	1.68	1.74	1.8	
	700	0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.7	0.77	0.84	0.91	0.98	1.05	1.12	1.19	1.26	1.33	1.4	1.47	1.54	1.61	1.68	1.75	1.82	1.89	1.96	2.03	2.1	
	800	0.08	0.16	0.24	0.32	0.4	0.48	0.56	0.64	0.72	0.8	0.88	0.96	1.04	1.12	1.2	1.28	1.36	1.44	1.52	1.6	1.68	1.76	1.84	1.92	2	2.08	2.16	2.24	2.32	2.4	
	900	0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.9	0.99	1.08	1.17	1.26	1.35	1.44	1.53	1.62	1.71	1.8	1.89	1.98	2.07	2.16	2.25	2.34	2.43	2.52	2.61	2.7	
	1000	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	
	1100	0.11	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.1	1.21	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.2	2.31	2.42	2.53	2.64	2.75	2.86	2.97	3.08	3.19	3.3	
	1200	0.12	0.24	0.36	0.48	0.6	0.72	0.84	0.96	1.08	1.2	1.32	1.44	1.56	1.68	1.8	1.92	2.04	2.16	2.28	2.4	2.52	2.64	2.76	2.88	3	3.12	3.24	3.36	3.48	3.6	
	1300	0.13	0.26	0.39	0.52	0.65	0.78	0.91	1.04	1.17	1.3	1.43	1.56	1.69	1.82	1.95	2.08	2.21	2.34	2.47	2.6	2.73	2.86	2.99	3.12	3.25	3.38	3.51	3.64	3.77	3.9	
	1400	0.14	0.28	0.42	0.56	0.7	0.84	0.98	1.12	1.26	1.4	1.54	1.68	1.82	1.96	2.1	2.24	2.38	2.52	2.66	2.8	2.94	3.08	3.22	3.36	3.5	3.64	3.78	3.92	4.06	4.2	
	1500	0.15	0.3	0.45	0.6	0.75	0.9	1.05	1.2	1.35	1.5	1.65	1.8	1.95	2.1	2.25	2.4	2.55	2.7	2.85	3	3.15	3.3	3.45	3.6	3.75	3.9	4.05	4.2	4.35	4.5	
	1600	0.16	0.32	0.48	0.64	0.8	0.96	1.12	1.28	1.44	1.6	1.76	1.92	2.08	2.24	2.4	2.56	2.72	2.88	3.04	3.2	3.36	3.52	3.68	3.84	4	4.16	4.32	4.48	4.64	4.8	
	1700	0.17	0.34	0.51	0.68	0.85	1.02	1.19	1.36	1.53	1.7	1.87	2.04	2.21	2.38	2.55	2.72	2.89	3.06	3.23	3.4	3.57	3.74	3.91	4.08	4.25	4.42	4.59	4.76	4.93	5.1	
	1800	0.18	0.36	0.54	0.72	0.9	1.08	1.26	1.44	1.62	1.8	1.98	2.16	2.34	2.52	2.7	2.88	3.06	3.24	3.42	3.6	3.78	3.96	4.14	4.32	4.5	4.68	4.86	5.04	5.22	5.4	
	1900	0.19	0.38	0.57	0.76	0.95	1.14	1.33	1.52	1.71	1.9	2.09	2.28	2.47	2.66	2.85	3.04	3.23	3.42	3.61	3.8	3.99	4.18	4.37	4.56	4.75	4.94	5.13	5.32	5.51	5.7	
	2000	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	5	5.2	5.4	5.6	5.8	6	
	2100	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.1	2.31	2.52	2.73	2.94	3.15	3.36	3.57	3.78	3.99	4.2	4.41	4.62	4.83	5.04	5.25	5.46	5.67	5.88	6.09	6.3	
	2200	0.22	0.44	0.66	0.88	1.1	1.32	1.54	1.76	1.98	2.2	2.42	2.64	2.86	3.08	3.3	3.52	3.74	3.96	4.18	Maximum area for 2x6mm Annealed is < 2.75m ² . Max Line Height 1500, Length 2500. Upgrade to 6mm Toughened										6.38	6.6
	2300	0.23	0.46	0.69	0.92	1.15	1.38	1.61	1.84	2.07	2.3	2.53	2.76	2.99	3.22	3.45	3.68	3.91	4.14	4.37											6.67	6.9
	2400	0.24	0.48	0.72	0.96	1.2	1.44	1.68	1.92	2.16	2.4	2.64	2.88	3.12	3.36	3.6	3.84	4.08	4.32	4.56											6.96	7.2
	2500	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	3.5	3.75	4	4.25	4.5	4.75											7.25	7.5
	2600	0.26	0.52	0.78	1.04	1.3	1.56	1.82	2.08	2.34	2.6	2.86	3.12	3.38	3.64	3.9	4.16	4.42	4.68	4.94											7.54	7.8
	2700	0.27	0.54	0.81	1.08	1.35	1.62	1.89	2.16	2.43	2.7	2.97	3.24	3.51	3.78	4.05	4.32	4.59	4.86	5.13											7.83	8.1
	2800	0.28	0.56	0.84	1.12	1.4	1.68	1.96	2.24	2.52	2.8	3.08	3.36	3.64	3.92	4.2	4.48	4.76	5.04	5.32	8.12	8.4										
	2900	0.29	0.58	0.87	1.16	1.45	1.74	2.03	2.32	2.61	2.9	3.19	3.48	3.77	4.06	4.35	4.64	4.93	5.22	5.51	5.8	6.09	6.38	6.67	6.96	7.25	7.54	7.83	8.12	8.41	8.7	
	3000	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9	
3000+																																

*regardless of size annealed product can only be specified in non-critical glazing locations

