

Tabuľky zaťaženia PMMA a PC dosiek

(a) Flat roof and vertical glazing

The required thickness of PLEXIGLAS or MAKROLON LONGLIFE (PLUS) sheets depends on

- the envisaged use
- the rebate depth (= clamping depth plus half allowance for expansion;

see "(a) Changes in length and allowance for expansion," p. 5,

- the sheet size,
- the snow and wind loads to be assumed for a given location (e.g. to DIN 1055).

For flat sheets that are clamped all around, the **thickness** can be taken from Tables 2a and b. To this end look at Table 2a first and read the area factor (letter) corresponding to the given length and width. Together with the load this leads to the recommended

Table 2a: Calculation of the area factor

		Length or width in m																				
		0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00	
Width or length in m	0,25	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	0,50	A	B	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	0,75	A	C	E	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	1,00	A	D	F	H	I	I	K	K	K	K	L	L	L	L	L	L	L	L	L	L	L
	1,25	A	D	G	I	K	L	M	N	N	O	O	O	O	O	O	O	O	O	O	O	O
	1,50	A	D	G	I	L	N	O	P	Q	Q	Q	R	R	R	R	R	R	R	R	R	R
	1,75	A	D	G	K	M	O	Q	R	S	T	T	T	U	U	U	U	U	U	U	U	U
	2,00	A	D	G	K	N	P	R	S	T	U	V	V									

Table 2b: Calculation of the sheet thickness in mm: above PLEXIGLAS GS and XT (not RESIST*), below MAKROLON LONGLIFE (PLUS)

		Area factor (Table 2a)																				
		A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	T	U	V
Load in N/m ²	600	2	3	3	4	4	5	5	6	6	8	8	8	8	10	10	10	10	12	12	15	15
	750	2	3	4	4	5	5	6	6	8	8	8	8	10	10	10	10	12	12	12	12	15
960	3	3	3	4	4	5	5	6	6	8	8	10	10	10	10	12	12	12	15	15	15	15
	3	4	4	5	5	6	8	8	8	10	10	10	10	12	12	12						
1500	3	4	5	5	6	6	8	8	10	10	12	12	12	12	12	15	15	15	15	20	20	20
	3	4	5	5	6	8	8	8	10	10	12	12	12									
2000	4	4	5	6	6	8	10	10	10	12	12	12	15	15	15	15	20	20	20	20	20	20
	3	4	5	6	6	8	10	10	10	12	12	12										
3000	4	5	6	8	8	8	12	12	12	15	15	15	15	20	20	20	20	20	20	25	25	25
	4	5	6	8	8	10	12	12	12													

* Because of the reduced stiffness of PLEXIGLAS XT RESIST 21/31/41, the thickness should be increased by 50/65/100%.