table of spans for arched self-supporting roofs

ROOF PROFILE				SPAN (in metres)																									
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TRAPEZOIDAL GEOMETRY	BC 70	Thickness	[mm]	18	18	18	18	18	15	15	15	18	18																
		Radius	[m]	0,17	0,25	0,34	0,45	0,57	0,86	1,04	1,25	1,21	1,42																
		Rise	[m]																										
	BC 90	Thickness	[mm]						22	22	22	22	22	22	22	24	24	26	28	28	30								
		Radius	[m]						0,58	0,70	0,83	0,98	1,14	1,32	1,51	1,56	1,75	1,80	1,85	2,04	2,09								
		Rise	[m]																										
	BC 114	Thickness	[mm]											22	22	24	24	24	24	26	26	30	30	32	32				
		Radius	[m]											1,32	1,51	1,56	1,75	1,96	2,18	2,21	2,25	2,29	2,50	2,54	2,76				
		Rise	[m]																										
GEOMETRY	BC 700	Thickness	[mm]						15	15	15	18	18	20	20	23	23	26	26	28	28	30	30						
		Radius	[m]						0,86	1,04	1,25	1,21	1,42	1,46	1,67	1,63	1,83	1,80	2,00	2,04	2,25	2,29	2,50						
		Rise	[m]																										
	BC 900	Thickness	[mm]																										
		Radius	[m]											40	40	40	40	40	42	42	42	42	40	40	40	40	40	40	40
		Rise	[m]											0,71	0,81	0,91	1,03	1,14	1,21	1,33	1,47	1,61	1,84	2,00	2,17	2,35	2,53	2,72	2,92
		Thickness	[mm]	0,70 mm					0,80 mm			1,00 mm						1,12 mm				1,25 mm						1,50 mm	

- The spans and thicknesses to be respected for flat, trapezoidal roofs should be consulted in the tables of load plans and flat trapezoidal profiles.

- The graphs shown relate to:
  . Closed buildings;
  . Situados en zonas con menos de 700mts de altitud y a mas de 5Km del mar.
  . Located in mainland Portugal, except at altitudes above 600 metres and except in coastal areas less than 5km from the sea (Zone A - Land zoning, article 20);
- Loads permitted: 30kg/m2
- This table should not be used instead of consulting our technical services.