Main Wind Force Resisting System and Components and Cladding – Part 1		All Heights
Figure 27.4-3	External Pressure Coefficients, C_p	**Arched Roofs**
Enclosed, Partially Enclosed Buildings and Structures		

Conditions	Rise-to-span ratio, *r*	C_p		
		Windward quarter	Center half	Leeward quarter
Roof on elevated structure	$0 < r < 0.2$	-0.9	-0.7 - *r*	-0.5
	$0.2 \le r < 0.3$*	1.5*r* - 0.3	-0.7 - *r*	-0.5
	$0.3 \le r \le 0.6$	2.75*r* - 0.7	-0.7 - *r*	-0.5
Roof springing from ground level	$0 < r \le 0.6$	1.4*r*	-0.7 - *r*	-0.5

*When the rise-to-span ratio is $0.2 \le r \le 0.3$, alternate coefficients given by 6r - 2.1 shall also be used for the windward quarter.

Notes:

1. Values listed are for the determination of average loads on main wind force resisting systems.
2. Plus and minus signs signify pressures acting toward and away from the surfaces, respectively.
3. For wind directed parallel to the axis of the arch, use pressure coefficients from Fig. 27.4-1 with wind directed parallel to ridge.
4. For components and cladding: (1) At roof perimeter, use the external pressure coefficients in Fig. 30.4-2A, B and C with θ based on spring-line slope and (2) for remaining roof areas, use external pressure coefficients of this table multiplied by 0.87.