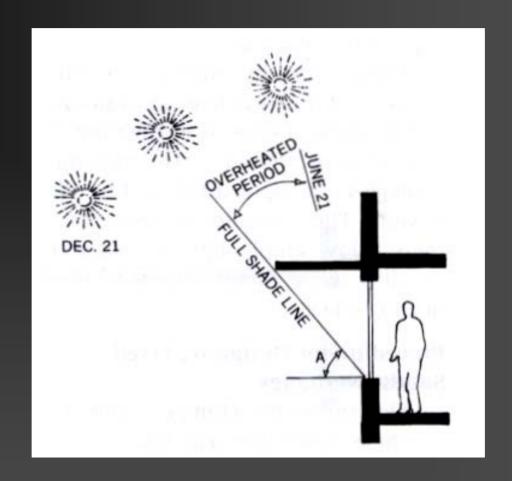
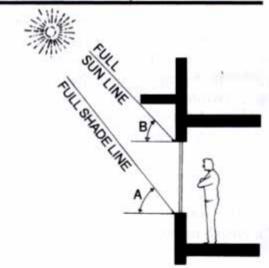
Shading for South Exposure

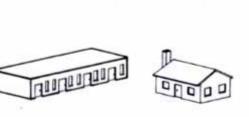
- Maximize south glazing
 - It is the only orientation that can be effectively shaded in the summer while preserving the view
 - It is also the orientation with the maximum harvest of solar radiation in the winter



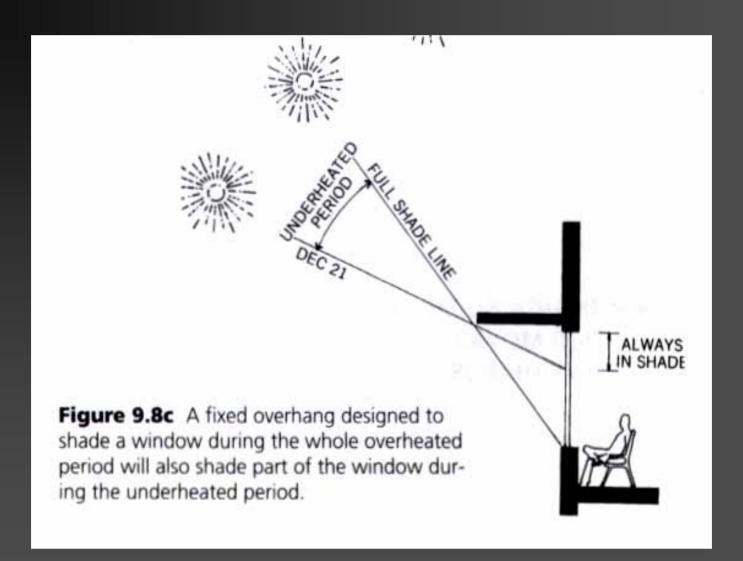
The "full shade line" determines the length of overhang required for shade during the overheating period

TABLE 9.8B SIZING SOUTH OVERHANGS ON ENVELOPE-DOMINATED BUILDINGS a,b,c



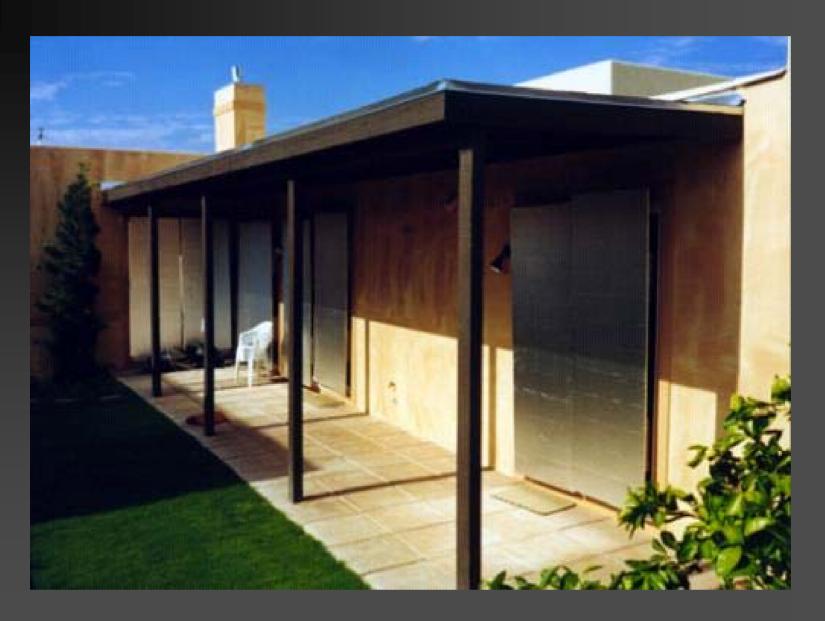


Climate Region	Reference City	Angle "A" (Full Shade)	Angle "B" (Full Sun)
1	Hartford, CT	65	59
2	Madison, WI	64	55
3	Indianapolis, IN	63	55
2 3 4 5	Salt Lake City, UT	65	60
5	Ely, NE	72	69
6	Medford, OR	71	61
7	Fresno, CA	64	45
8	Charleston, SC	65	49
8 9	Little Rock, AK	63	52
10	Knoxville, TN	62	51
11	Phoenix, AZ	56	49
12	Midland, TX	63	50
13	Forth Worth, TX	61	54
14	New Orleans, LA	63	44
15	Houston, TX	60	42
16	Miami, FL	50	d
17	Los Angeles, CA	61	43





Protected South Exposure - Summer



Protected South Exposure - Winter



South Elevation in August



South Elevation in August Swaback Residence



Louvered Overhangs - South Elevation on October 18
McDonnell House



Louvered Overhangs - South Elevation on October 18
McDonnell House



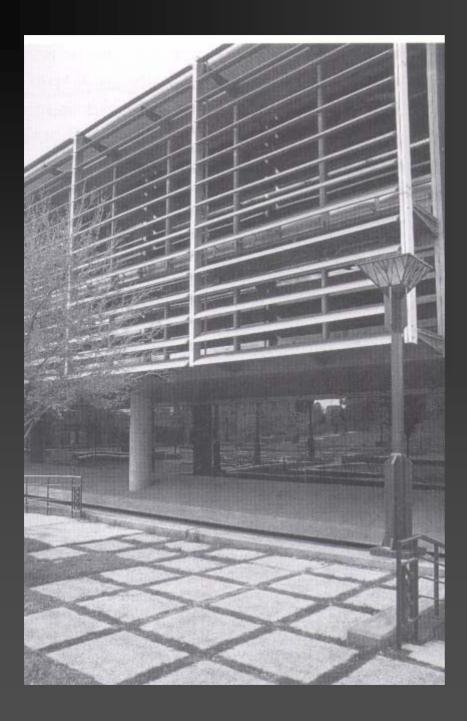


Louvered Overhangs - South Elevation on October 18
McDonnell House





South facade with operable louvers, Phoenix Central Library Will Bruder Architects



South operable louvers
Phoenix Central Library
Will Bruder Architects



South facade Arup Campus, Solihull, UK (Arup Associates, 2001)



South facade Eastgate, Harare, Zimbabwe (Pearce Partnership, 1996)





Chicago Building July versus December



South facade AZ Cardinals Training Facility (Jones Studio, 1988)



Lycée Albert Camus, Fréjus, France Foster and Partners



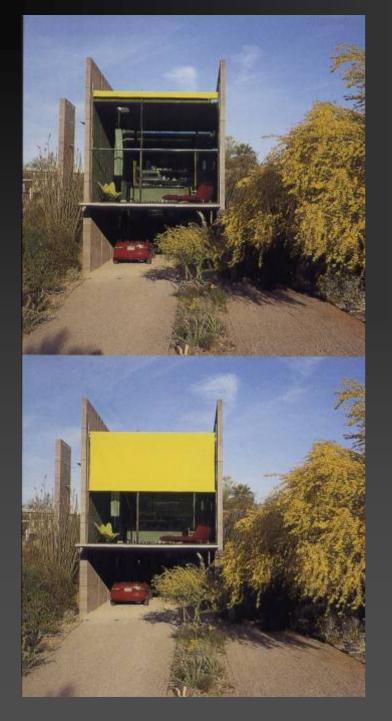
South Elevation with fixed louvers Dodge Theater, Phoenix



South Elevation with fixed louvers
Scottsdale Shopping Center



Southwest corner with fixed louvers Scottsdale Shopping Center

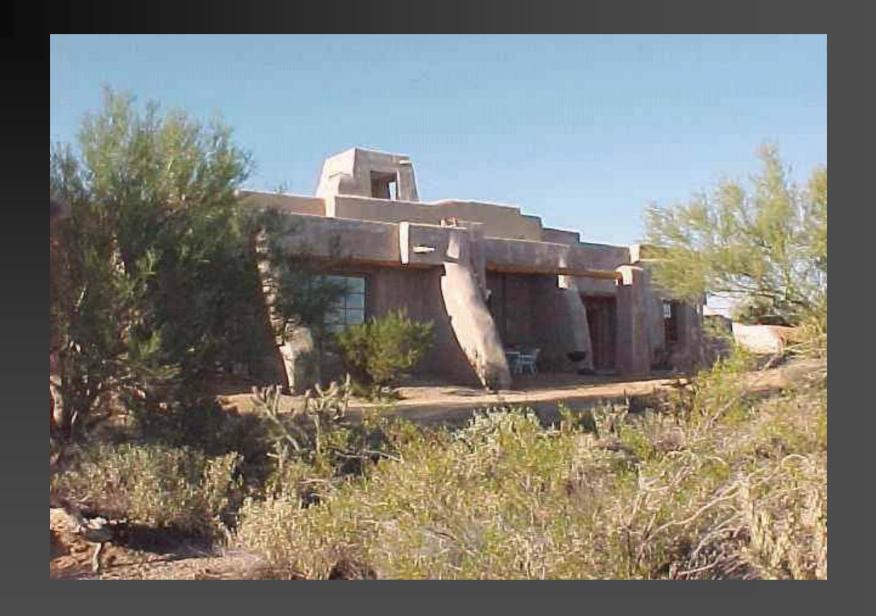


South facade
Burnette House
Wendell Burnette Architect





South Elevation in August



Shade Alcoves created by wing walls on south side of house



Shade Alcoves created by wing walls on south side of house



South Elevation in August