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Akron, OH #3 SI

TABLE 301.1 EXTERIOR DESIGN CONDITIONS	
WINTER Design Dry Bulb: minus 17°C	HDD18: 3429
SUMMER Design Dry Bulb:30°C;Mean Coincident Wet Bulb:22°C	CDD18: 367
Annual Operating Hours, 8AM - 4PM when 12.8°C<=T<=20.6°C: 680	

TABLE 402.3.1(A) MAX. THERMAL TRANSMITTANCE (U)	
Roof	0.318
Wall adjacent to unconditioned space	0.767
Floor over unconditioned space	0.290

TABLE 402.3.1(B) MAX. EXEMPT SKYLIGHT AREA AS % OF ROOF AREA					
Visible Light Transmittance (VLT)	Light level Lux	Range of Lighting Power Densities			
		<10.8	10.8-16.2	16.3-21.5	>21.5
0.75	320	2.3	3.4	4.5	5.6
	540	2.5	4.0	5.5	7.0
	750	2.8	4.6	6.4	8.2
0.50	320	3.6	5.1	6.6	8.1
	540	3.9	6.0	8.1	10.2
	750	4.2	6.9	9.6	12.3

TABLE 402.3.2 MINIMUM THERMAL RESISTANCE (R-VALUE)			
Slab on grade: Unheated / Heated:	600 mm	900 mm	1200 mm
Horizontal	R-3/R-5	R-2/R-4	R-2/R-4
Vertical	R-1/R-3	R-1/R-3	R-1/R-3
Wall below grade:	R-2		

TABLE 402.4.1.1 MAX. WALL THERMAL TRANSMITTANCE (Uow)				
			Insulation Position	
ILD Range	WWR	HC Range	Interior/Integral	Exterior
All	0 to 100	0.0 - 28	0.483	0.483
0.0 to 16.1	24	29 - 56	0.511	0.630
		57 - 85	0.551	0.687
		85 +	0.579	0.710
	63	29 - 56	0.505	0.596
		57 - 85	0.534	0.636
		85 +	0.556	0.647
16.2 to 32.3	21	29 - 56	0.517	0.676
		57 - 85	0.568	0.761
		85 +	0.613	0.789
	66	29 - 56	0.505	0.613
		57 - 85	0.539	0.659
		85 +	0.568	0.676
32.4 to 37.7	19	29 - 56	0.517	0.693
		57 - 85	0.574	0.784
		85 +	0.630	0.818
	65	29 - 56	0.505	0.619
		57 - 85	0.539	0.664
		85 +	0.568	0.687

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TABLE 402.4.1.2 MAXIMUM WINDOW WALL RATIO (WWR)								
			Fenestration U-Factor (Uof)					
			Base Case			Perimeter Daylighting		
								VLT>=SC
Internal Load Density (ILD) Range	Projection Factor (PF) Range	Shading Coefficient (SCx) Range	3.35 to 2.96	2.95 to 2.22	2.21 to 0.00	3.35 to 2.96	2.95 to 2.22	2.21 to 0.00
0.0 - 16.1	0.00 - 0.25	1.00 - 0.72	24	25	27	25	26	29
		0.71 - 0.61	27	29	32	28	30	34
		0.60 - 0.51	30	32	37	31	33	39
		0.50 - 0.39	33	36	42	33	36	43
		0.38 - 0.26	37	40	49	37	41	51
		0.25 - 0.00	42	47	60	41	46	60
	0.26 - 0.50	1.00 - 0.72	31	33	38	32	34	40
		0.71 - 0.61	34	37	44	35	38	46
		0.60 - 0.51	37	40	49	37	41	51
		0.50 - 0.39	39	43	54	39	44	55
		0.38 - 0.00	42	47	61	42	47	62
	0.50 +	1.00 - 0.72	36	40	47	37	40	49
		0.71 - 0.61	39	43	53	39	43	55
		0.60 - 0.51	41	46	58	41	46	59
		0.50 - 0.00	43	48	62	42	48	63
16.2 - 32.3	0.00 - 0.25	1.00 - 0.72	21	22	23	26	27	30
		0.71 - 0.61	24	25	28	29	31	35
		0.60 - 0.51	27	29	32	32	34	40
		0.50 - 0.39	30	32	37	35	38	45
		0.38 - 0.26	35	38	44	39	43	53
		0.25 - 0.00	42	46	57	44	49	64
	0.26 - 0.50	1.00 - 0.72	28	29	32	32	35	41
		0.71 - 0.61	31	33	38	36	39	47
		0.60 - 0.51	34	37	43	38	42	52
		0.50 - 0.39	37	41	48	41	45	58
		0.38 - 0.00	42	46	56	44	49	65
	0.50 +	1.00 - 0.72	33	35	40	37	41	50
		0.71 - 0.61	37	40	47	40	45	57
		0.60 - 0.51	40	43	52	42	47	62
		0.50 - 0.00	42	47	57	44	50	66
32.4 - 37.7	0.00 - 0.25	1.00 - 0.72	19	19	20	25	26	29
		0.71 - 0.61	22	23	25	28	30	34
		0.60 - 0.51	25	26	28	31	33	39
		0.50 - 0.39	28	30	33	34	37	44
		0.38 - 0.26	33	35	40	38	42	52
		0.25 - 0.00	39	43	52	44	49	64
	0.26 - 0.50	1.00 - 0.72	25	26	28	32	34	40
		0.71 - 0.61	29	30	34	35	38	46
		0.60 - 0.51	32	34	38	37	41	52
		0.50 - 0.39	35	37	44	40	44	57
		0.38 - 0.00	39	43	52	43	48	64
	0.50 +	1.00 - 0.72	30	32	36	37	40	50
		0.71 - 0.61	34	36	42	39	44	56
		0.60 - 0.51	37	40	47	41	46	61
		0.50 - 0.00	40	43	52	44	49	65