



Northern Territory Government

Department of Infrastructure, Planning and Environment

BUILDING ADVISORY SERVICES BRANCH

BUILDING NOTE

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EXTENDED SHADING PROJECTIONS TO GLAZING FOR NT CLIMATE ZONES 1 and 3 BCA Volume 2 Table 3.12.2.1

In consultation with the Building Advisory Committee it has been determined that, for climate zones 1 and 3 in the NT, Table 3.12.2.1 Maximum Effective Glazing Area in BCA Volume 2 may be extended to the limits shown on the attached modified table.

The attached table has a larger range of shading projections than currently provided by BCA Table 3.12.2.1.

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GLAZING AREA LIMITS FOR EXTENDED SHADING (NT climate zones 1 and 3)

NT Table 3.12.2.1 (extended)
MAXIMUM EFFECTIVE GLAZING AREA
(Percentage of total glazing area to the total floor area of the storey)

Glass description	Glazing frame	Glazing system performance characteristics (U-value/SHGC)	No shading	Maximum effective glazing area percentage															
				(projection from face of building (mm))															
				300	450	600	900	1,200	1,500	1,800	2,100	2,400	2,700	3,000	3,300	3,600	3,900	4,200	
CLIMATE ZONE 1																			
Single clear	Aluminium standard	5.6/0.86	18	21	22	24	27	31	35	38	42	47	50	54	59	63	68	71	
	Timber or UPVC	4.6/0.78	19	23	24	26	30	34	39	42	47	52	55	60	65	70	75	78	
Toned (minimum 5mm)	Aluminium standard	5.6/0.66	23	27	29	31	36	40	46	50	55	61	66	71	76	82	89	92	
	Timber or UPVC	4.5/0.59	26	30	32	35	40	45	51	56	62	69	73	79	85	92	99	103	
single solar control, pyrolytic low-e	Aluminium standard	4.1/0.48	31	37	40	43	49	55	63	69	76	84	90	97	105	113	122	127	
	Aluminium thermally improved	3.3/0.46	33	38	41	45	51	58	65	72	79	88	94	101	110	118	127	132	
Timber or UPVC		3.2/0.47	32	38	41	44	50	57	64	70	78	86	92	99	107	116	125	129	
CLIMATE ZONE 3																			
Single clear	Aluminium standard	5.6/0.86	15	17	19	20	23	27	30	34	38	41	46	50	51	51	51	51	
	Timber or UPVC	4.6/0.78	16	19	21	22	26	29	33	37	42	45	51	55	60	62	62	62	
Toned (minimum 5mm)	Aluminium standard	5.6/0.66	19	23	24	26	30	35	39	44	49	51	51	51	51	51	51	51	
	Timber or UPVC	4.5/0.59	22	25	27	29	34	39	43	49	55	60	63	63	63	63	63	63	
single solar control, pyrolytic low-e	Aluminium standard	4.1/0.48	26	31	33	36	42	48	53	60	67	69	69	69	69	69	69	69	
	Aluminium thermally improved	3.3/0.46	28	33	35	38	43	50	55	63	70	77	86	86	86	86	86	86	
Timber or UPVC		3.2/0.47	27	32	34	37	42	49	54	62	69	75	84	89	89	89	89	89	