

# Sydney Airport ANEF 2039

Table 2.1 Building Site Acceptability Based on ANEF Zones - AS2021:2025

Building type	ANEF Zone of site		
	Acceptable	Conditionally acceptable	Unacceptable
House, home unit, flat, caravan park	Less than 20 ANEF (Note 1)	20 to 25 ANEF (Note 2)	Greater than 25 ANEF
Hotel, motel, hostel	Less than 25 ANEF	25 to 30 ANEF	Greater than 30 ANEF
School, university	Less than 20 ANEF (Note 1)	20 to 25 ANEF (Note 2)	Greater than 25 ANEF
Hospital, nursing home	Less than 20 ANEF (Note 1)	20 to 25 ANEF	Greater than 25 ANEF
Public building	Less than 20 ANEF (Note 1)	20 to 30 ANEF	Greater than 30 ANEF
Commercial building	Less than 25 ANEF	25 to 35 ANEF	Greater than 35 ANEF
Light industrial	Less than 30 ANEF	30 to 40 ANEF	Greater than 40 ANEF
Other industrial	Acceptable in all ANEF zones		

#### Notes:

- The actual location of the 20 ANEF contours is difficult to define accurately, mainly because of variation in aircraft flight paths. Because of this, the procedure of Clause 2.3.2 may be followed for building sites outside by near to the 20 ANEF contour.
- Within 20 ANEF to 25 ANEF, some people may find that the land is not compatible with residential or educational uses. Land use authorities may consider that the incorporation of noise control features in the construction of residences or schools is appropriate (see also Figure A1 of Appendix A).
- There will be cases where a building of a particular type will contain spaces used for activities which would generally be ground in a different type of building (e.g. an office in an industrial building). In these cases Table 2.1 should be used to determine suite acceptability, but internal design noise levels within the specific spaced should be determined by Table 3.3.
- This Standard does not recommend development in unacceptable areas. However, where the relevant planning authority determines that any development may be necessary within existing built-up areas designated as unacceptable, it is recommended that such development should achieve the required ANR determined according to Clause 3.2. For residences, schools, etc., the effect if aircraft noise on outdoor areas associated with the buildings should be considered.
- In no case should new development take place in greenfield sites deemed unacceptable because such development may impact airport operations.

ANEF contours modelled with INM 7.0d with terrain

Where figures have been rounded, discrepancies may occur between totals and the sums of component items.

2026 Daily Movements by Runway																			
Aircraft	Arrivals				Departures				Arrivals				Departures						
	Day	Night	Total	All	Day	Night	Total	All	Day	Night	Total	All	Day	Night	Total	All			
Runway 07																			
737800	9.44	1.42	10.85	4.96	0.60	5.48	16.33	7.80	1.81	9.62	5.49	0.92	6.42	16.03					
737MAX	3.15	0.47	3.62	1.63	0.20	1.83	5.44	2.60	0.60	3.21	1.83	0.31	2.14	5.34					
747400	0.20	0.00	0.20	0.11	0.02	0.13	0.33	0.17	0.07	0.12	0.03	0.15	0.32						
777200	1.32	0.06	1.39	0.28	0.07	0.35	1.74	0.81	0.11	0.92	0.63	0.13	0.76	1.68					
777500	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.00	0.03	0.03	0.08	0.00	0.08	0.11					
7773ER	0.41	0.10	0.51	0.49	0.02	0.51	1.02	0.29	0.11	0.41	0.55	0.05	0.60	1.01					
7878R	0.98	0.34	1.32	0.56	0.13	0.69	2.01	0.76	0.29	1.06	0.81	0.34	1.15	2.21					
A320-232	1.65	0.45	2.10	0.94	0.10	1.04	3.14	1.36	0.38	1.74	1.03	0.15	1.19	3.13					
A320NEO	0.55	0.15	0.70	0.31	0.03	0.35	1.05	0.45	0.19	0.65	0.34	0.05	0.40	0.89					
A321-232	1.54	0.27	1.81	0.52	0.15	0.66	2.47	1.20	0.37	1.57	0.65	0.24	0.89	2.46					
A321NEO	0.51	0.09	0.60	0.17	0.05	0.22	0.82	0.40	0.12	0.52	0.22	0.08	0.30	0.82					
A330-343	3.22	0.46	3.68	1.54	0.22	1.57	5.25	2.64	0.60	3.24	2.21	0.27	2.48	5.72					
A340-642	0.08	0.00	0.08	0.07	0.00	0.07	0.15	0.05	0.00	0.05	0.04	0.00	0.04	0.10					
A380-841	0.27	0.06	0.32	0.23	0.05	0.28	0.60	0.22	0.12	0.34	0.33	0.10	0.43	0.77					
A380-961	0.01	0.02	0.14	0.10	0.02	0.12	0.26	0.09	0.05	0.15	0.14	0.04	0.19	0.33					
CNA441	0.00	0.38	0.38	0.00	0.04	0.04	0.43	0.00	0.52	0.52	0.00	0.17	0.17	0.69					
CNA680	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.03	0.03	0.00	0.02	0.02	0.05					
DHC830	2.30	0.07	2.37	1.58	0.15	1.73	4.10	2.29	0.16	2.45	1.90	0.16	2.06	4.31					
DO228	0.08	0.03	0.12	0.09	0.02	0.11	0.22	0.09	0.04	0.13	0.10	0.03	0.13	0.25					
DO328	1.01	0.06	1.07	0.39	0.08	0.47	1.54	0.86	0.08	0.94	0.48	0.07	0.56	1.50					
FI0062	0.40	0.00	0.40	0.11	0.00	0.11	0.51	0.23	0.00	0.23	0.09	0.00	0.09	0.33					
GV	0.00	0.02	0.02	0.00	0.02	0.02	0.04	0.00	0.07	0.07	0.00	0.33	0.33	0.40					
LEAR35	0.00	0.15	0.15	0.08	0.00	0.08	0.23	0.00	0.17	0.17	0.08	0.03	0.09	0.25					
MD11GE	0.07	0.00	0.07	0.06	0.00	0.06	0.13	0.06	0.00	0.06	0.04	0.00	0.04	0.09					
SF340	3.30	0.08	3.38	1.52	0.17	1.69	5.07	2.73	0.07	2.80	1.65	0.16	1.81	4.61					
BAE146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
TOTAL	30.58	4.71	35.30	16.48	6.14	52.93	25.11	31.25	16.80	31.49	22.40	33.79	22.49	53.74					
Runway 16L																			
737800	39.56	14.33	53.88	35.14	17.53	72.67	126.55	33.00	11.63	44.63	40.43	15.55	55.98	100.61					
737MAX	13.19	4.78	17.96	16.38	5.84	24.22	42.18	11.00	3.88	14.88	13.48	5.18	18.66	33.14					
747400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
777200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
777300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
777500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
7773ER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
7878R	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
A320-232	6.01	2.25	8.26	10.20	3.51	13.71	21.98	5.37	2.14	7.51	7.74	2.98	10.72	18.24					
A320NEO	2.00	0.15	2.15	2.40	1.17	3.57	7.32	1.79	0.71	2.50	2.38	0.99	3.57	6.08					
A321-232	6.07	2.91	8.98	7.33	3.86	11.19	20.17	5.34	2.85	8.19	5.94	3.37	9.31	17.50					
A321NEO	2.02	0.97	2.99	2.44	1.29	3.73	6.72	1.78	0.95	2.73	1.98	1.12	3.10	5.83					
A330-343	5.45	0.87	6.33	11.48	2.07	13.55	19.88	4.60	1.16	5.76	8.55	1.69	10.24	16.00					
A340-642	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
A380-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
A380-961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
CNA441	0.00	2.58	2.58	0.00	3.83	3.83	6.41	0.00	2.75	2.75	0.00	3.97	3.97	6.72					
CNA680	0.00	0.00	0.00	0.43	0.43	0.86	1.48	0.43	0.43	0.86	0.00	0.56	0.56	0.99					
DHC830	13.27	2.14	15.42	11.96	1.55	13.51	28.92	10.87	1.61	12.47	9.41	1.32	10.73	23.21					
DO228	0.58	0.43	1.01	0.46	0.55	1.01	2.02	0.30	0.55	0.85	0.50	0.40	0.90	1.74					
DO328	1.51	0.00	1.51	1.71	0.60	2.30	3.81	1.76	0.00	1.76	1.21	0.41	1.62	3.39					
FI0062	0.74	0.00	0.74	1.15	0.00	1.15	1.89	0.63	0.00	0.63	0.65	0.00	0.65	1.27					
GV	0.00	0.52	0.52	0.00	0.93	0.93	1.45	0.00	0.43	0.43	0.00	0.62	0.62	1.05					
LEAR35	0.00	1.04	1.04	0.57	0.43	1.01	2.05	0.00	1.43	1.43	0.29	0.55	0.84	2.27					
MD11GE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
SF340	4.49	0.00	4.49	5.85	0.00	5.85	10.34	4.48	0.00	4.48	4.31	0.00	4.31	8.79					
BAE146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
TOTAL	94.89	34.31	129.00	130.07	43.68	173.75	302.75	80.91	30.53	111.43	97.07	38.73	135.80	247.23					
Runway 34R																			
737800	22.80	8.20	31.00	15.53	3.51	19.04	50.03	17.13	8.39	25.52	12.96	2.95	15.91	41.41					
737MAX	7.60	2.75	10.35	5.17	1.17	6.35	16.68	5.11	2.80	8.51	4.32	0.98	5.30	13.88					
N2200	2.96	0.20	3.16	1.43	0.75	2.18	5.33	1.48	0.00	1.48	1.00	0.54	1.53	3.62					
777278	2.29	0.00	2.29	10.20	0.29	10.20	12.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
777300	0.00	0.85	0.85	0.93	0.00	0.93	1.76	0.00	0.12	1.12	0.98	0.08	0.98	2.09					
777300	2.24	0.66	2.90	4.66	1.06	7.51	12.20	3.28	4.15	7.42	4.49	0.87	5.35	12.77					
A320-232	4.21	1.91	6.12	6.12	0.27	6.39	10.61	0.24	0.00	10.61	4.32	0.00	4.32	8.71					
A320-232	3.98	2.35	6.33	2.47	0.00	2.47	8.80	2.60	2.01	4.60	1.62	0.00	1.62	6.22					
A321-232	3.13	0.78	3.91	2.1	0.82	0.82	2.91	0.87	0.67	1.53	0.54	0.00	0.54	2.07					
A321-232	0.85	4.42	5.24	1.89	3.31	3.31	7.55	2.11	0.66	2.77	0.83	1.74	2.57	5.35					
A321-247	1.57	0.48	2.04	1.04	0.41	1.44	2.04	0.61	0.00	2.04	0.41	0.00	0.41	2.45					
A330-343	18.02	4.55	22.57	15.69	4.21	19.90	42.47	16.65	5.77	22.42	12.92	3.35	16.26	38.69					
A340-642	0.58	0.00	0.58	0.57	0.00	0.57	1.15	0.28	0.00	0.28	0.31	0.00	0.31	0.60					
A380-941	2.93	2.93	5.86	4.29	2.21	6.49	12.35	2.19	3.90	6.08	3.55	1.84	5.39	11.47					
CNA441	0.00	1.31	1.31	0.18	1.78	1.78	3.07	0.00	0.00	3.07	0.00	0.00	0.00	3.07					
CNA441	0.00	0.88	0.88	0.00	1.43	1.43	2.31	0.00	2.89	2.89	0.00	0.55	0.55	3.44					
CNA680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
DO228	0.40	0.56	0.96	0.40	0.56	0.96	1.92	0.00	0.00	1.92	0.00	0.00	0.00	1.92					
DO328	4.24	0.56	1.00	0.99	0.00	0.99	2.20	0.31	0.39	0.90	0.86	0.00	0.86	1.76					
FI0062	0.28	4.29	1.65	5.94	4.87	1.19	6.06	12.00	3.57	1.21	4.79	4.14	0.85	4.99					
FI0062	0.00	0.00	0.0																