



BUILDING SITE ACCEPTABILITY BASED ON ANEF ZONES
To be used in conjunction with (AS2021-2000) Table 3.3

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 (15 and) 20 ANEF contour is difficult to define accurately, mainly because of variations in aircraft flight paths. Because of this, the procedure of (AS2021-2000) Clause 2.3.2 may be followed for building sites outside but 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 (AS2021-2000) 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 found in a different type of building (e.g. an office in an industrial building). In these cases the above table should be used to determine site acceptability, but internal design noise levels within the specific spaces should be determined by (AS2021-2000) 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 (AS2021-2000) Clause 3.2. For residences, schools, etc., the effect of 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.
- Source : AS2021-2000 Table 2.1

ANEF origin
This ANEF has been prepared using the Integrated Noise Model package (INM 5.2a).
It includes all movements to and from Melbourne Tullamarine Airport
Annual Aircraft Movements for ANEF configurations
Configuration ANEF (2027) 53,871



RUNWAY END CO-ORDINATES

RUNWAY	EASTING (WGS84)	NORTHING (WGS84)
Runway 08	314205.34	5821712.12
Runway 17	314871.82	5822949.54
Runway 26	316125.22	5821821.50
Runway 35	314962.96	5821444.62

- Qualification**
- Factors taken into account in the ANEF calculation are the following:
- the numbers and types of aircraft forecast to operate on the average day, their distribution on the various runways and flight paths and their destinations.
 - the noise characteristics of each aircraft type at each phase of its operation (landing or take-off).
 - whether the operation was in daytime (7am - 7pm) or night-time (7pm - 7am).
 - terrain was not used in the modelling of this study.

Contours are plotted at steps of 5 ANEF over the range 20 to 30 ANEF - the higher the ANEF value the greater the noise exposure. Aircraft noise does not stop at the 20 ANEF contour, but outside 20 ANEF, noise from sources other than aircraft may predominate over aircraft noise.

This is a Standard ANEF i.e. a forecast of noise exposure levels up to a maximum of 20 years.

Coordinate system used is WGS 84.

Essendon Airport Limited Pty neither assumes nor accepts responsibility for the accuracy of the contours or any reliance placed upon them.

AIRCRAFT DAILY MOVEMENTS BY RUNWAY AND AIRCRAFT TYPE

RUNWAY	AIRCRAFT	ARRIVALS		DEPARTURES		CIRCUITS		TOUCHING GO		Total Day	
		DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
08	73780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	RECSP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	CNA172	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	CNA206	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	CNA441	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	CNA500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	DHC6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	GASFPF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	GASFPV	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	GVV	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	LEAR35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	MAJ301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08	Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	73780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	RECSP	2.870	0.642	3.692	1.087	0.011	0.000	0.069	0.074	6.642	1.793
17	CNA172	3.200	0.311	4.432	0.382	0.002	0.000	0.005	0.280	7.669	1.008
17	CNA206	0.391	0.028	0.476	0.040	0.000	0.000	0.002	0.000	0.869	0.044
17	CNA441	0.749	0.168	1.210	0.253	0.004	0.001	0.026	0.055	2.084	0.709
17	CNA500	0.308	0.045	0.270	0.081	0.000	0.000	0.000	0.000	0.588	0.089
17	DHC6	2.204	1.074	3.756	2.221	0.000	0.000	0.000	0.000	5.980	3.295
17	GASFPF	2.285	0.236	3.132	0.278	0.004	0.002	0.051	0.371	5.442	0.702
17	GASFPV	0.790	0.059	1.056	0.084	0.001	0.000	0.008	0.042	1.907	0.149
17	GVV	0.283	0.076	0.470	0.262	0.000	0.000	0.000	0.000	0.953	0.347
17	LEAR35	0.430	0.070	0.515	0.433	0.000	0.000	0.000	0.000	0.915	1.225
17	MAJ301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	Total	15.529	2.950	21.941	4.854	0.006	0.002	0.128	0.562	30.008	4.256
26	73780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	RECSP	2.926	0.901	1.300	0.347	0.005	0.001	0.046	0.040	4.087	1.295
26	CNA172	1.549	0.120	0.867	0.088	0.002	0.000	0.026	0.006	2.404	0.206
26	CNA206	0.215	0.025	0.108	0.014	0.000	0.000	0.003	0.007	0.362	0.046
26	CNA441	0.879	0.472	0.380	0.150	0.001	0.001	0.005	0.014	1.230	0.607
26	CNA500	0.189	0.075	0.172	0.068	0.000	0.000	0.000	0.000	0.361	0.149
26	DHC6	3.580	1.280	1.097	1.124	0.000	0.000	0.000	0.000	4.677	4.424
26	GASFPF	1.375	0.092	0.651	0.085	0.000	0.000	0.017	0.005	2.033	0.142
26	GASFPV	0.502	0.080	0.235	0.043	0.004	0.001	0.029	0.013	0.740	0.041
26	GVV	0.611	0.106	0.497	0.021	0.000	0.000	0.000	0.000	1.308	0.193
26	LEAR35	0.684	0.141	0.470	0.379	0.000	0.000	0.000	0.000	1.185	0.370
26	MAJ301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	Total	15.048	4.285	6.186	2.103	0.017	0.004	0.096	0.046	21.207	7.687
35	73780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	RECSP	1.889	0.300	2.544	0.366	0.011	0.004	0.039	0.029	4.502	0.699
35	CNA172	1.575	0.083	1.791	0.091	0.004	0.000	0.026	0.000	3.687	0.174
35	CNA206	0.276	0.009	0.255	0.039	0.000	0.000	0.003	0.000	0.541	0.038
35	CNA441	0.611	0.180	0.670	0.375	0.016	0.017	0.017	0.005	1.244	0.716
35	CNA500	0.187	0.044	0.258	0.091	0.000	0.000	0.000	0.000	0.424	0.055
35	DHC6	1.584	0.570	2.343	0.981	0.001	0.000	0.120	0.000	3.862	1.561
35	GASFPF	1.380	0.097	1.230	0.080	0.000	0.000	0.017	0.000	2.610	0.187
35	GASFPV	0.543	0.028	0.529	0.028	0.004	0.000	0.025	0.000	1.089	0.046
35	GVV	0.305	0.038	0.380	0.062	0.000	0.000	0.000	0.000	0.685	0.080
35	LEAR35	0.249	0.097	0.356	0.086	0.000	0.000	0.000	0.000	0.617	0.154
35	MAJ301	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	Total	9.835	1.375	11.562	1.985	0.034	0.021	0.233	0.004	21.272	3.375
C17	SA300	1.574	0.110	4.833	0.491	0.000	0.000	0.000	0.000	6.417	0.604
C17	SA305	0.110	0.020	0.329	0.064	0.000	0.000	0.000	0.000	0.469	0.124
C17	Total	1.744	0.147	5.172	0.555	0.000	0.000	0.000	0.000	6.887	0.728
C35	SA300	0.486	0.427	1.249	0.081	0.000	0.000	0.000	0.000	1.747	0.501
C35	SA305	0.429	0.175	0.082	0.042	0.000	0.000	0.000	0.000	0.514	0.151
C35	Total	0.915	0.602	1.331	0.123	0.000	0.000	0.000	0.000	2.261	0.652
F417	SA300	1.184	0.080	6.070	0.441	0.000	0.000	0.000	0.000	7.234	0.521
F417	SA305	0.080	0.027	0.480	0.121	0.000	0.000	0.000	0.000	0.580	0.148
F417	Total	1.264	0.107	6.550	0.562	0.000	0.000	0.000	0.000	7.814	0.669
F435	SA300	4.334	0.120	1.537	0.199	0.000	0.000	0.000	0.000	6.051	0.319
F435	SA305	0.321	0.005	0.112	0.005	0.000	0.000	0.000	0.000	0.433	0.121
F435	Total	4.655	0.125	1.649	0.204	0.000	0.000	0.000	0.000	6.484	0.440
F517	SA300	1.680	0.070	4.254	0.302	0.000	0.000	0.000	0.000	5.934	0.369
F517	SA305	0.074	0.021	0.118	0.089	0.000	0.000	0.000	0.000	0.192	0.101
F517	Total	1.754	0.091	4.372	0.391	0.000	0.000	0.000	0.000	6.126	0.470
F535	SA300	4.211	0.304	1.889	0.071	0.000	0.000	0.000	0.000	5.299	0.384
F535	SA305	0.309	0.044	0.780	0.021	0.000	0.000	0.000	0.000	0.879	0.109
F535	Total	4.520	0.348	2.669	0.092	0.000	0.000	0.000	0.000	6.178	0.493
F117	SA300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
F117	SA305	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
F117	Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Grand Total		99.348	15.546	99.348	15.546	0.267	0.121	1.307	0.678		