

## **IAQ Objectives**

Parameter	Averaging Time	Unit	Excellent Class	Good Class
Carbon Dioxide (CO <sub>2</sub> )*	8-hour	mg/m <sup>3</sup>	1,400	1,800
		ppmv	800	1,000
Carbon Monoxide (CO)*	8-hour	µg/m <sup>3</sup>	2,000	7,000
		ppmv	1.7	6.1
Respirable Suspended Particulates (PM <sub>10</sub> )*	8-hour	µg/m <sup>3</sup>	20	100
Nitrogen Dioxide (NO <sub>2</sub> )	8-hour	µg/m <sup>3</sup>	40	150
		ppbv	21	80
	1-hour	µg/m <sup>3</sup>	100	200
		ppbv	53	106
Ozone (O <sub>3</sub> )	8-hour	µg/m <sup>3</sup>	50	120
		ppbv	25	61
Formaldehyde (HCHO)	8-hour	µg/m <sup>3</sup>	30	100
		ppbv	24	81
	30-minute	µg/m <sup>3</sup>	70	100
		ppbv	57	81
Total Volatile Organic Compounds (TVOC)	8-hour	µg/m <sup>3</sup>	200	600
		ppbv	87	261
Radon (Rn)	8-hour	Bq/m <sup>3</sup>	150	167
Airborne Bacteria	8-hour	cfu/m <sup>3</sup>	500	1,000
Mould*	---	---	Assessment in the form of walkthrough inspection	

*\* Measurement for CO<sub>2</sub>, PM<sub>10</sub> and assessment of mould is required for 1<sup>st</sup> to 4<sup>th</sup> annual re-certification for certificate renewal in a 5-year cycle.*

## **IAQ Objectives For Individual VOCS**

<b>VOC Species</b>	<b>8-hour Average<sup>(1)</sup></b>
Benzene	17µg/m <sup>3</sup> (5.3 ppbv)
Tetrachloroethylene	250µg/m <sup>3</sup> (37 ppbv)
Trichloroethylene	230µg/m <sup>3</sup> (43 ppbv)
Naphthalene	10µg/m <sup>3</sup> (1.9 ppbv)
Polycyclic Aromatic Hydrocarbons (as benzo(a)pyrene)	1.2 ng/m <sup>3</sup> (1.2 x 10 <sup>-4</sup> ppbv)

- (1) The objectives are applicable to both Excellent and Good Classes. Compliance with the respective objective of the five individual VOC species is regarded as meeting Good Class TVOC objective. If at the same time the sum of the five individual VOC is less than or equal to 200 µg/m<sup>3</sup> (the Excellent Class TVOC objective level), it will be regarded as complying with the Excellent Class TVOC objective.