

COMPARISON OF VIBRATION MEASUREMENTS BY COLIN GORDON & ASSOC., POLYSONICS, and SCANTEK

WALKER-INDUCED VIBRATIONS (in micro-inch/sec) Vibrations measured on 8th Floor

Information highlighted in color is the most probable vibration level at the mid-point of a structural bay based on the speed of footfalls at the identified location

		CORRIDOR IN 36' SPAN				GHOST CORRIDOR IN 28' SPAN				AISLE @ BENCHES IN 28' SPAN			
PACES / MIN		CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06	CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06	CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06
100	Vertical	5,800	1,220	1,500	1,100	5,600	/	1,200	530	9,800	/	1,800	/
	Freq.			4 Hz	5 Hz			4 Hz	5 Hz			12 Hz	/
75 / 85	Vertical	3,700	/	1,300	1,040	3,600	870	1,100	420	6,200	1,500	1,900	1,550
	Freq.			4 Hz	8 Hz			12 Hz	5 Hz			12 Hz	12 Hz
50	Vertical	2,300	870	820	730	2,300	660	900	550	3,900	720	1,400	2,260
	Freq.			12 Hz	5 Hz			12 Hz	5 Hz			12 Hz	12 Hz

AMBIENT BUILDING VIBRATIONS (in micro-inch/sec)

LEVELS		HORIZONTAL N-S AXIS				HORIZONTAL E-W AXIS				VERTICAL AXIS			
		CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06	CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06	CG&A 9/05	CG&A 11/06	POLYSONICS 4/06	SCANTEK 6/06
B	W. WING	60	/	10	100	40	/	>10	140	35	/	50	160
	<i>Freq.</i>	4 Hz	/	12 Hz	3 Hz	4 Hz	/	---	6 Hz	4 Hz	/	7 Hz	5 Hz
2	N. WING	70	/	150	190	70	/	130	160	/	/	240	370
	<i>Freq.</i>	2 Hz	/	7 Hz	2.5 Hz	2 Hz	/	7 Hz	2 Hz	/	/	7 Hz	2 Hz
4	N. WING	120	/	350	/	180	/	210	/	220	/	450	/
	<i>Freq.</i>	2 Hz	/	5 Hz	/	2 Hz	/	5 Hz	/	4 Hz	/	6 Hz	/
5	N. WING	400	250	180	520	400	290	350	330	/	203	550	1,140
	<i>Freq.</i>	2 Hz	2.25 Hz	4 Hz	3 Hz	2 Hz	2.25 Hz	7 Hz	3 Hz	/		7 Hz	5 Hz
6	N. WING	560	390	350	860	560	330	380	900	600	280	620	920
	<i>Freq.</i>	2 Hz	2.25 Hz	7 Hz	2 Hz	2 Hz	2.25 Hz	4&7 Hz	2 Hz	4 Hz		4 Hz	4 Hz
8	E. WING	980	78	800	320	980	140	600	800	/	560	880	1,100
	<i>Freq.</i>	2 Hz	2.25 Hz	7 Hz	3 Hz	2 Hz	2.25 Hz	4&7 Hz	1 Hz	/		4 Hz	4 Hz
9	W. WING	1,200	/	800	480	1,200	/	800	470	/	/	600	2,480
	<i>Freq.</i>	2 Hz	/	4 Hz	3 Hz	2 Hz	/	8 Hz	3 Hz	/	/	4 Hz	4 Hz
10	N. WING	1,500	98	1,700	550	1,500	130	1,700	710	/	453	1,000	2,880
	<i>Freq.</i>	2 Hz	2.25 Hz	4 Hz	1 Hz	2 Hz	2.25 Hz	5 Hz	1 Hz	/		4 Hz	4 Hz