

PIPE SCALE DETAILS

N.P.MANDER LTD.

JOB: Urakami Cathedral, Japan

DEPARTMENT: Grand Orgue

PRESSURE: 90mm PITCH: A = 440 at 18°C

DATE: May 18th 1995

INITIALS: JPM

TUNING: Cone tuned

TEMPERAMENT: Equal

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49	C61	Remarks
1	Montre	16	61	75	7-48	4	(220)	139	83	49	30	17	1-6 stopped wood 6-28 fronts
2	Montre	8	61	56	1-36	4	158	93	56	34	20	13	1-12 fronts
3	Flûte harmonique	8	61	56	1-36	4	130	92	61	43	29.5	20	harm from c25
4	Violoncelle	8	61	56	1-48	4	116.5	71	43.5	27	17	10	
5	Bourdon	8	61	Pine			107x85	67x54	43x34	27x21	17x14	11x8.5	
6	Prestant	4	61	56	1-24	4	92	55	33.5	20.5	12	7.5	
7	Flûte à Fuseau	4	61	35	1-30	4.5	87	58 f 50	f# 53 c 43	28.5	19	12.8	1-18 canisters 19-61 tapered 1/3
8	Doublette	2	61	56	1-12	4	52	32.5	20	12	7.5	5	
9	Fourniture V Breaks at 7,19,31,43	2	305	56	to 1'	4	2' 49	1' 30	1/2' 18	1/4' 11	1/8' 6.5	1/16' 4.5	
10	Cymbale IV Breaks at 13,25,31,37,43,55	2/3	244	56	none	4		(1' 30)	1/2' 18	1/4' 11	1/8' 6.5	1/16' 4.5	
11	Cornet V 8' rank (mounted) remainder	8	160	35	none	4			54 1' 40	35 1/2' 25	23 1/4' 16	g 18 1/8' 10	8' rank canisters, rest open parallel
12	Bombarde	16	61	56			140	114	90	68	58.5	49	Open domed shallots All full length
13	Trompette	8	64	56			127	99	80	63.5	52	g 45	Open domed shallots 57-61 flues 8'+4'
14	Clairon	4	76	56			99	80	63.5	52	g 45		Open domed shallots 45-61 flues 8'+4'

DEPARTMENT: Récit Expressif**PRESSURE: 95/105*mm**

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49	C61	Remarks
15	Quintaton	16	61	Pine			160x127	92x73	58x46	37x29	23x18	15x12	
16	Diapason	8	61	56	1-36	4	140	84	50.5	30.5	18	11	
17	Cor de Nuit	8	61	35	1-42	4.5	115	78	53	36	24.5	16.5	
18	Flûte traversière	8	55	56	7-36	4	F# 103	85	57	38.5	26	18	harm. from c25 1-6 common to 17
19	Viole de Gambe	8	61	56	1-48	4	93	56.5	36	22.5	14	10	
20	Voix céleste	8	49	56	13-48	4		51	33	20.5	14	9	from ten c
21	Octave	4	61	56	1-24	4	91	53.5	32	19	11.5	6.5	
22	Flûte octavante	4	61	35	1-24	4	82	55	37	25	17.5	12	harmonic 13-49
23	Doublette	2	61	56	1-12	4	51	31.5	19.5	11.5	7	4.5	
24	Cornet IV (mounted)	4	128	35	none	4	1' 35	1/2' 22	1/4' 13	1/8' 8			Mid c to top g
25	Plein Jeu IV Breaks at 11,21,31,47	1 1/3	244	56	none	4	(2' 45)	1' 27.5	1/2' 17	1/4' 10.5	1/8' 6.5	1/16' 4.5	
26	Basson*		61	56			135	104	85	65	50	45	Open domed shallots 1-8 half length
27	Trompette harm.* Trebles flues 8+4		66	56			120	91	70 b 54	74	57	g 50	Open domed shallots Harm from 37 57-61 flues 8+4
28	Basson-hautbois		61	56			73	66	51	40	33	g 50	57-61 flues
29	Voix humaine		61	56			41	37	34	31	28	g 27	Open tops 57-61 flues
30	Clairon harmonique*		78	56			91	70 b54	74	57	g 50		Open domed shallots Harm from 25 45-61 flues 8+4

DEPARTMENT: Positif**PRESSURE:75mm**

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	C37	C49		Remarks
31	Montre	8	61	75	1-36	4	F# 108	83	49	29	17	11	1-6 from 32 with 4' helpers. 7-42 fronts
32	Flûte à Cheminée	8	61	35	1-42	4	102	67	44	29	19	12.5	1-12 no chimneys 49-61 open tapered
33	Prestant	4	61	56	1-24	4	83	49	29	17	11	6	
34	Flûte douce	4	61	35	1-30	5	73	49	33	22	15	10	1-36 stopped 37-61 2/3 tapered
35	Nazard	2 2/3	61	35	1-24	4.5	70.5	45	28.5	18	10.5	7	
36	Doublette	2	61	56	1-12	4	47	27.5	16	10.5	6	4.5	
37	Quarte de Nazard	2	61	35	1-18	4.5	58	37	23.5	15	9.5	6	
38	Tierce	1 3/5	61	35	1-14	4.5	50.5	32	20	13	8	6	
39	Sesquialtera II	2 2/3	122	35	to 1'	4	2'23 56 2'46	1' 29	1/2' 18	1/4' 11.5	1/8' 7	1/16' 4.5	
40	Plein Jeu V Breaks at 7,19,31,43,51	1 1/3	305	56	none	4	(2' 43)	1' 26	1/2' 15	1/4' 10	1/8' 5.5	1/16' 4	
41	Cromorne	8	61	35			45	37.5	31.5	26.5	22	g 20	Open topped canisters Open domed shallots 57-61 flues

DEPARTMENT: Pédale
PRESSURE: 105/130*mm

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C1	C13	C25	G32	Remarks
42	Soubasse	32	12	Pine			342x 282	(213x 176)			Extension No. 44
43	Montre	16	32	75	1-32	4	280	167	100	75	1 & 2 Haskelles 3-18 fronts
44	Soubasse	16	32	Pine			213x 176	134x 111	85x70	65x54	
45	Principal	8	32	56	1-32	4	165	98	58	43	
46	Flûte bouché	8	32	Pine			134x 111	85x70	54x44	41x34	
47	Octave	4	32	56	1-32	4	95	58	35	26	
48	Mixture V	3 1/5	160	56	to 1'	4	(4' 90)	2' 53	1' 32	1/2' 19	1/4' 11 g 32 1' 8
49	Contre Bombarde*	32	12	Zinc			270	(200)			Extension No. 50
50	Bombarde*	16	32	56			200	148	110	90	
51	Trompette	8	32	56			134	102	78	67	
52	Clairon	4	32	56			100	78	60	52	