

PIPE SCALE DETAILS

JOB: AUSTRALIAN BRANDENBURG ORCHESTRA

PITCH: A 415 @ 18°C

NB: *This organ is at Baroque Pitch*

DATE: 10th December 2002 (Final)

TUNING METHOD: Slides

PRESSURE: 55mm

MANDER ORGANS

INITIALS: JPM

TEMPERAMENT: Adjustable

No	Stop Name	Pitch	Pipes	Mat	Ears	MW	C ¹	C ¹³	C ²⁵	C ³⁷	C ⁴⁹	F ⁵⁴	Remarks
1	Stopped Diapason	8	1-54	QP			95 x 75.5	60 x 47.5	37.5 x 30	24 x 19	15 x 12	12.5 x 9.8	Stpt. Wood 46 (effectively 45, but starting a semitone down as the pitch is A415. Plant for belly in pipes
2a	Principal bass	4	1-6	QP		C	70 x 61						Assuming the first 6 pipes are wooden open. If this changes, I will calculate scales for any extra pipes. See note below re tuning.
						F	63 x 50						
2b	Principal remainder	4	7-54	75%	None	4 (C) F#	(77) 60	46.5	28	17	10	8.5	Part front, see D.O.
3	Chimney Flute	4	1-54	35%	1-36	4.5	70	44.5	29	18.5	11.5	9	1-12 no chimneys 13-42 internal chimneys l=1.5 z scale Ø= 1/4 pipe scale 43-54 open tapered, upper Ø 1/2 scale Canisters with and without chimney slightly domed.
4	Fifteenth	2	1-54	75%	none	4	43.5	28	17.5	10.5	6.5	5	Part front, see D.O.

The fact that this organ has baroque pitch as standard and is transposable up to A440 is likely to give rise to confusion. The pipe scales given are as they should be made, but the pipes should be made one semitone longer to be at A415. Very clear instructions must be given to the pipe makers. In its A440 configuration, the pipes must be tuneable to A430. Drawing office to indicate if there is any requirement for shorter than standard length feet.

As the pipes have to be tuned to A430, normal metal flaps for tuning the wooden bass of the Principal 4 would not be adequate. We need to work out something else, such as (perhaps) a small version of the slides used for Open Wood pipes.