

# PIPE SCALE DETAILS

FINAL

## MANDER ORGANS

**JOB: KOBE ANGLICAN CATHEDRAL**

**DATE: 31<sup>st</sup> October 2012**

**INITIALS: JPM**

**PITCH: A 440 @ °C**

**TUNING METHOD: Slides Cone & Slot**

**TEMPERAMENT: Kellner?**

**DEPARTMENT: Great Organ**

**PRESSURE: 80mm**

| No | Stop Name   | Pitch | Pipes | Mat                           | Ears            | MW | C <sup>1</sup> | C <sup>13</sup> | C <sup>25</sup>                  | C <sup>37</sup>                    | C <sup>49</sup>                 | A <sup>58</sup>                    | Remarks  |
|----|---|-------|-------|-------------------------------|-----------------|----|----------------|-----------------|----------------------------------|------------------------------------|---------------------------------|------------------------------------|--|
| 1  | Open Diapason   | 8     | 58    | Fronts<br>75%,<br>rest<br>56% | Small<br>1-36   | 4  | 150            | 92              | 55                               | 32                                 | 19                              | 14                                 | Part front pipes ask Drawing Office 1-30 common to Pedal Principal |
| 1a | Dummy Front Pipes   |       |       | 75%                           |                 |    |                |                 |                                  |                                    |                                 |                                    | Details to follow from D.O.  |
| 2  | Stopped Diapason  | 8     | 58    | Pine                          |                 |    | 107x85         | 67x<br>53.5     | 42.5x<br>33.5                    | 26.5x<br>21                        | 17x<br>13.5                     | 12x9.5                             | Stopped Wood Scale 41  |
| 3  | Principal   | 4     | 58    | 56%                           | 1-24<br>(small) | 4  | 89             | 53              | 32                               | 19                                 | 12                              | 8                                  | Part front pipes, ask D.O. for details                             |
| 4  | Fifteenth   | 2     | 58    | 56%                           | 1-12<br>(small) | 4  | 52             | 31              | 19                               | 11.5                               | 7.5                             | 5                                  |  |
| 5  | Mixture IV<br>1-8: 1 <sup>1</sup> / <sub>3</sub> .1. <sup>2</sup> / <sub>3</sub> . <sup>1</sup> / <sub>2</sub><br>9-18: 2.1 <sup>1</sup> / <sub>3</sub> .1. <sup>2</sup> / <sub>3</sub><br>19-30: 2 <sup>2</sup> / <sub>3</sub> .2.1 <sup>1</sup> / <sub>3</sub> .1<br>31-42: 4.2 <sup>2</sup> / <sub>3</sub> .2.1 <sup>1</sup> / <sub>3</sub><br>43-58: 8.4.2 <sup>2</sup> / <sub>3</sub> .2 | 1 1/3 | 232   | 56%                           | none            | 4  | (2' 45)        | 1' 28.5         | <sup>1</sup> / <sub>2</sub> ' 18 | <sup>1</sup> / <sub>4</sub> ' 11.5 | <sup>1</sup> / <sub>8</sub> ' 7 | <sup>1</sup> / <sub>16</sub> ' 4.5 |  |
| 6  | Trumpet   | 8     | 58    | 56%                           |                 |    | 110            | 85              | 65                               | 50                                 | 39                              | 31                                 | Domed Shallots, scale No.13  |

**DEPARTMENT: Swell Organ****PRESSURE: 80mm****JOB: Kobe Cathedral**

| No | Stop Name     | Pitch | Pipes | Mat | Ears  | MW  | C <sup>1</sup> | C <sup>13</sup> | C <sup>25</sup> | C <sup>37</sup> | C <sup>49</sup> | A <sup>58</sup> | Remarks   |
|----|---------------|-------|-------|-----|-------|-----|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| 7  | Gedackt       | 8     | 58    | 35% | 1-42  | 4   | 110            | 70              | 46              | 30              | 20              | 15              |   |
| 8  | Salicional TC | 8     | 13-58 | 56% | 13-42 | 4   |                | 60              | 37.5            | 22.5            | 14              | 10              | 1-12 from Gedackt 8   |
| 9  | Celeste TC    | 8     | 13-58 | 56% | 13-42 | 4   |                | 56              | 35              | 21              | 13              | 9               | Tuned flat  |
| 10 | Chimney Flute | 4     | 58    | 35% | 1-42  | 4   | 67             | 44              | 29              | 19              | 12.5            | 10              | 13-36 internal chimneys <sup>1</sup> / <sub>5</sub> Ø<br>length 1.5 x Ø. Domed<br>canisters.<br>37-56 upper Ø <sup>1</sup> / <sub>2</sub> scale |
| 11 | Nazard        | 2 2/3 | 58    | 35% | 1-24  | 4.5 | 65             | 41              | 26              | 16.5            | 10.5            | 7.5             |   |
| 12 | Recorder      | 2     | 58    | 35% | 1-18  | 4   | 53             | 34              | 21.5            | 13.5            | 8.5             | 6.5             | (Hybrid)  |
| 13 | Tierce        | 1 3/5 | 58    | 35% | 1-14  | 4.5 | 45.5           | 28.5            | 18              | 11.5            | 7               | 5.5             |   |
| 14 | Oboe          | 8     | 58    | 56% |       |     | 70<br>B 52     | 66              | 51              | 40              | 33              | 29              | Square end shallots. Scale<br>13. Scale details as<br>Beckenham. See separate<br>sheet. 1-12 Bassoon basses                                     |

**DEPARTMENT: Pedal Organ****PRESSURE: 80mm****JOB: Kobe**

| No | Stop Name | Pitch | Pipes | Mat  | Ears | MW | C <sup>1</sup> | C <sup>13</sup> | C <sup>25</sup> | F <sup>30</sup> | Remarks   |
|----|-----------|-------|-------|------|------|----|----------------|-----------------|-----------------|-----------------|---|
| 15 | Bourdon   | 16    | 30    | Pine |      |    | 198 x<br>163   | 125 x<br>103    | 79 x<br>65      | 65 x<br>54      | Bourdon Scale No. 15  |
| 16 | Principal | 8     | 0     |      |      |    |                |                 |                 |                 | From Great Open Diapason  |
| 17 | Trombone  | 16    | 30    | 56%  |      |    | 130            | 100             | 80              | 75              | Square shallots scale no. 1.<br>1-6 or 12 half length, check<br>with D.O. and V.S |
| 18 | Trumpet   | 8     | 0     |      |      |    |                |                 |                 |                 | From Great Trumpet  |