

| NUMBER OF BLADES | OVER-ALL HEIGHT OF LOUVRE PANEL AND PRIMARY FRAME 'H'mm | MINIMUM HEIGHT OF VENTILATION SHAFT BEHIND LOUVRE PANEL & PRIMARY FRAME ('H'mm - 200mm) | EFFECTIVE FREE AREAS THROUGH LOUVRE PANELS (m ²) | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|--|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2800 | 2800 | 2900 | 3000 | |
| | | | MINIMUM WIDTH OF VENTILATION SHAFT (MILLIMETRES)('W'-160mm) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 439 | 239 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 502 | 302 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 565 | 365 | | | | | | | | | | | | | | | | | 0.40 | 0.43 | 0.45 | 0.48 | 0.50 | 0.53 | 0.55 | 0.58 | 0.60 | 0.62 |
| 8 | 628 | 428 | | | | | | | | | | | | | | | | | 0.47 | 0.50 | 0.53 | 0.56 | 0.58 | 0.61 | 0.64 | 0.67 | 0.70 | 0.73 |
| 9 | 691 | 491 | | | | | | | | | | | | | | | | | 0.47 | 0.50 | 0.54 | 0.57 | 0.60 | 0.64 | 0.67 | 0.70 | 0.73 | 0.77 |
| 10 | 754 | 554 | | | | | | | | | | | | | | | | | 0.53 | 0.57 | 0.60 | 0.63 | 0.68 | 0.72 | 0.75 | 0.79 | 0.83 | 0.86 |
| 11 | 817 | 617 | | | | | | | | | | | | | | | | | 0.51 | 0.55 | 0.59 | 0.63 | 0.67 | 0.71 | 0.75 | 0.79 | 0.84 | 0.88 |
| 12 | 880 | 680 | | | | | | | | | | | | | | | | | 0.56 | 0.60 | 0.65 | 0.70 | 0.74 | 0.78 | 0.83 | 0.87 | 0.92 | 0.96 |
| 13 | 943 | 743 | | | | | | | | | | | | | | | | | 0.51 | 0.56 | 0.61 | 0.66 | 0.71 | 0.76 | 0.81 | 0.86 | 0.90 | 0.95 |
| 14 | 1006 | 806 | | | | | | | | | | | | | | | | | 0.55 | 0.61 | 0.66 | 0.71 | 0.77 | 0.82 | 0.87 | 0.93 | 0.98 | 1.03 |
| 15 | 1069 | 869 | | | | | | | | | | | | | | | | | 0.48 | 0.54 | 0.60 | 0.65 | 0.71 | 0.77 | 0.83 | 0.86 | 0.94 | 1.00 |
| 16 | 1132 | 932 | | | | | | | | | | | | | | | | | 0.52 | 0.58 | 0.64 | 0.70 | 0.76 | 0.82 | 0.88 | 0.95 | 1.00 | 1.07 |
| 17 | 1195 | 995 | | | | | | | | | | | | | | | | | | 0.42 | 0.48 | 0.55 | 0.62 | 0.68 | 0.75 | 0.81 | 0.88 | 0.94 |
| 18 | 1258 | 1058 | | | | | | | | | | | | | | | | | | 0.45 | 0.52 | 0.58 | 0.65 | 0.72 | 0.79 | 0.86 | 0.93 | 1.00 |
| 19 | 1321 | 1121 | | | | | | | | | | | | | | | | | | 0.32 | 0.40 | 0.47 | 0.55 | 0.62 | 0.69 | 0.77 | 0.84 | 0.91 |
| 20 | 1384 | 1184 | | | | | | | | | | | | | | | | | | 0.34 | 0.42 | 0.50 | 0.58 | 0.65 | 0.73 | 0.81 | 0.89 | 0.96 |
| 21 | 1447 | 1247 | | | | | | | | | | | | | | | | | | 0.36 | 0.44 | 0.52 | 0.61 | 0.69 | 0.77 | 0.85 | 0.93 | 1.02 |
| 22 | 1510 | 1310 | | | | | | | | | | | | | | | | | | 0.38 | 0.46 | 0.55 | 0.64 | 0.72 | 0.81 | 0.89 | 0.98 | 1.07 |
| 23 | 1573 | 1373 | | | | | | | | | | | | | | | | | | 0.40 | 0.49 | 0.58 | 0.67 | 0.76 | 0.85 | 0.94 | 1.02 | 1.12 |
| 24 | 1636 | 1436 | | | | | | | | | | | | | | | | | | 0.41 | 0.51 | 0.60 | 0.70 | 0.79 | 0.89 | 0.98 | 1.07 | 1.17 |
| 25 | 1699 | 1499 | | | | | | | | | | | | | | | | | | 0.43 | 0.53 | 0.63 | 0.73 | 0.83 | 0.92 | 1.02 | 1.12 | 1.22 |
| 26 | 1762 | 1562 | | | | | | | | | | | | | | | | | | 0.45 | 0.55 | 0.65 | 0.76 | 0.86 | 0.96 | 1.06 | 1.17 | 1.27 |
| 27 | 1825 | 1625 | | | | | | | | | | | | | | | | | | 0.47 | 0.57 | 0.68 | 0.79 | 0.89 | 1.00 | 1.12 | 1.21 | 1.32 |
| 28 | 1888 | 1688 | | | | | | | | | | | | | | | | | | 0.49 | 0.59 | 0.71 | 0.82 | 0.93 | 1.04 | 1.15 | 1.26 | 1.37 |
| 29 | 1951 | 1751 | | | | | | | | | | | | | | | | | | 0.50 | 0.62 | 0.73 | 0.85 | 0.96 | 1.08 | 1.20 | 1.30 | 1.42 |
| 30 | 2014 | 1814 | | | | | | | | | | | | | | | | | | 0.52 | 0.64 | 0.76 | 0.88 | 1.00 | 1.10 | 1.24 | 1.35 | 1.47 |
| 31 | 2077 | 1877 | | | | | | | | | | | | | | | | | | 0.54 | 0.66 | 0.78 | 0.91 | 1.03 | 1.15 | 1.28 | 1.40 | 1.52 |
| 32 | 2140 | 1940 | | | | | | | | | | | | | | | | | | 0.56 | 0.68 | 0.81 | 0.94 | 1.06 | 1.19 | 1.32 | 1.45 | 1.57 |
| 33 | 2203 | 2003 | | | | | | | | | | | | | | | | | | 0.57 | 0.71 | 0.84 | 0.97 | 1.10 | 1.23 | 1.36 | 1.49 | 1.63 |
| 34 | 2266 | 2066 | | | | | | | | | | | | | | | | | | 0.59 | 0.73 | 0.86 | 1.00 | 1.14 | 1.27 | 1.40 | 1.54 | 1.68 |
| 35 | 2329 | 2129 | | | | | | | | | | | | | | | | | | 0.61 | 0.75 | 0.89 | 1.03 | 1.16 | 1.30 | 1.44 | 1.59 | 1.73 |
| 36 | 2392 | 2192 | | | | | | | | | | | | | | | | | | 0.63 | 0.77 | 0.91 | 1.06 | 1.20 | 1.34 | 1.49 | 1.63 | 1.77 |
| 37 | 2455 | 2255 | | | | | | | | | | | | | | | | | | 0.65 | 0.80 | 0.94 | 1.09 | 1.24 | 1.38 | 1.53 | 1.68 | 1.83 |
| 38 | 2515 | 2315 | | | | | | | | | | | | | | | | | | 0.67 | 0.82 | 0.96 | 1.12 | 1.27 | 1.42 | 1.58 | 1.73 | 1.88 |
| 39 | 2581 | 2381 | | | | | | | | | | | | | | | | | | 0.68 | 0.84 | 0.99 | 1.15 | 1.30 | 1.46 | 1.62 | 1.78 | 1.93 |
| 40 | 2644 | 2444 | | | | | | | | | | | | | | | | | | 0.70 | 0.86 | 1.00 | 1.18 | 1.34 | 1.50 | 1.66 | 1.82 | 1.98 |
| 41 | 2707 | 2507 | | | | | | | | | | | | | | | | | | 0.72 | 0.88 | 1.05 | 1.21 | 1.37 | 1.54 | 1.70 | 1.88 | 2.03 |
| 42 | 2770 | 2570 | | | | | | | | | | | | | | | | | | 0.74 | 0.90 | 1.07 | 1.24 | 1.40 | 1.58 | 1.75 | 1.90 | 2.08 |
| 43 | 2833 | 2633 | | | | | | | | | | | | | | | | | | 0.76 | 0.92 | 1.10 | 1.27 | 1.44 | 1.62 | 1.79 | 1.96 | 2.13 |
| 44 | 2896 | 2696 | | | | | | | | | | | | | | | | | | 0.77 | 0.95 | 1.12 | 1.30 | 1.48 | 1.65 | 1.80 | 2.00 | 2.18 |
| 45 | 2959 | 2759 | | | | | | | | | | | | | | | | | | 0.79 | 0.97 | 1.15 | 1.33 | 1.51 | 1.69 | 1.87 | 2.05 | 2.23 |
| 46 | 3022 | 2822 | | | | | | | | | | | | | | | | | | 0.81 | 0.99 | 1.17 | 1.36 | 1.54 | 1.73 | 1.91 | 2.10 | 2.28 |
| 47 | 3085 | 2885 | | | | | | | | | | | | | | | | | | 0.83 | 1.00 | 1.20 | 1.39 | 1.58 | 1.77 | 1.95 | 2.14 | 2.34 |
| 48 | 3148 | 2948 | | | | | | | | | | | | | | | | | | 0.85 | 1.03 | 1.23 | 1.42 | 1.62 | 1.81 | 2.00 | 2.19 | 2.39 |
| 49 | 3211 | 3011 | | | | | | | | | | | | | | | | | | 0.87 | 1.06 | 1.26 | 1.45 | 1.65 | 1.85 | 2.04 | 2.24 | 2.44 |
| 50 | 3275 | 3075 | | | | | | | | | | | | | | | | | | 0.88 | 1.08 | 1.28 | 1.49 | 1.68 | 1.89 | 2.09 | 2.29 | 2.49 |

THIS DRAWING IS TO BE READ INCONJUNCTION WITH NETWORK STANDARD 113 AND DRAWING 48009

DISTRIBUTION SUBSTATIONS
BASEMENT CHAMBERS
LOUVRE SIZE SELECTION TABLE



| | |
|----------------|---------|
| SCALE | NTS |
| DESIGNED | - |
| DRAWN | BS |
| CHECKED | - |
| APPROVED | RM |
| DATE | 10/1976 |
| TRIM REF | - |
| PROJECT NUMBER | - |

DRAWING No **53680** SHEET 1 AMD 4 SIZE A1

DO NOT MANUALLY AMEND
A M E N D M E N T S

3. NEW DRAWING MADE DRAWING RE-TITLED REFERENCES TO NETWORK STANDARDS ADDED.
P. JARVIS 22/09/2017
CHECKED: P. TURREN
APPROVED: D. GRICEV

4. BORDER & TITLEBLOCK UPDATED
09/09/2024
L. MARTINOZZI
M. BENNETT
CHECKED:
APPROVED: