

| Load Calculations                   |                   |                              |                   |                   |           |           |
|-------------------------------------|-------------------|------------------------------|-------------------|-------------------|-----------|-----------|
| Show                                | Covid Ballet 2020 |                              |                   |                   |           |           |
| Calculated By                       | Darren Wilson     |                              |                   |                   |           |           |
| FOH Truss                           |                   |                              |                   |                   |           |           |
| Non UDL                             |                   |                              |                   |                   |           |           |
| Piece                               | Load (kg)         | Total Span<br>Between Points | Span to 1<br>(mm) | Span to 2<br>(mm) | Load on 1 | Load on 2 |
| Martin MAC Encore CLD               | 31                | 3000                         | 685               | 2315              | 23.92     | 7.08      |
| Martin MAC Encore CLD               | 31                | 3000                         | 2341              | 659               | 6.81      | 24.19     |
| UDL                                 |                   |                              |                   |                   |           |           |
| Piece                               | Load (kg)         |                              |                   |                   | Load on 1 | Load on 2 |
| H30V Truss (4000mm)                 | 25.2              |                              |                   |                   | 12.6      | 12.6      |
| DMX & Power                         | 5                 |                              |                   |                   | 2.5       | 2.5       |
| Hoists & Rigging                    |                   |                              |                   |                   |           |           |
| Piece                               | Load (kg)         |                              |                   |                   | Load on 1 | Load on 2 |
| LoadGuard LG50 Chain Hoists         | 29.42             |                              |                   |                   | 29.42     | 29.42     |
| Rigging                             | 10                |                              |                   |                   | 10        | 10        |
| Totals                              |                   |                              |                   |                   |           |           |
|                                     |                   |                              |                   |                   | Load on 1 | Load on 2 |
| Total Weight on Truss (kg)          |                   |                              |                   |                   | 67        |           |
| Total Weight (Including Truss) (kg) |                   |                              |                   |                   | 92        |           |
| Total Weight on Hoist Point (kg)    |                   |                              |                   |                   | 46        | 46        |
| Total Weight on Beam Point (kg)     |                   |                              |                   |                   | 85        | 86        |

| Load Calculations                             |                   |           |
|---|-------------------|-----------|
| Show  | Covid Ballet 2020 |           |
| Calculated By                                 | Darren Wilson     |           |
| LX Ladders                                    |                   |           |
|   | Load (kg)         |           |
| Fixtures                                      | 10                |           |
| Cable   | 5                 |           |
| Rigging (including ladders)                   | 10                |           |
| Totals  | Load on 1         | Load on 2 |
| Total Ladder Weight (kg)                      | 25                |           |
| Total Weight on Truss Point (kg)              | 12.5              | 12.5      |
| <b>All 6 LX ladders have the same weight.</b> |                   |           |

| Load Calculations                    |                   |                                |                |                |           |           |
|--------------------------------------|-------------------|--------------------------------|----------------|----------------|-----------|-----------|
| Show                                 | Covid Ballet 2020 |                                |                |                |           |           |
| Calculated By                        | Darren Wilson     |                                |                |                |           |           |
| LX Ladder Truss                      |                   |                                |                |                |           |           |
| Non UDL                              |                   |                                |                |                |           |           |
| Piece                                | Load (kg)         | Total Span Between Points (mm) | Span to 1 (mm) | Span to 2 (mm) | Load on 1 | Load on 2 |
| Ladder 1 (A)                         | 12.5              | 4302                           | 162            | 4464           | 13.0      | 0.5       |
| Ladder 1 (B)                         | 12.5              | 4302                           | 838            | 3464           | 10.1      | 2.4       |
| Ladder 2 (A)                         | 12.5              | 4302                           | 1883           | 2419           | 7.0       | 5.5       |
| Ladder 2 (B)                         | 12.5              | 4302                           | 2883           | 1419           | 4.1       | 8.4       |
| Ladder 3 (A)                         | 12.5              | 4302                           | 3342           | 960            | 2.8       | 9.7       |
| Ladder 3 (B)                         | 12.5              | 4302                           | 4342           | 40             | 0.1       | 12.6      |
| UDL                                  |                   |                                |                |                |           |           |
| Piece                                | Load (kg)         |                                |                |                | Load on 1 | Load on 2 |
| H30V Truss (5000mm)                  | 31.5              |                                |                |                | 16        | 16        |
| Rigging                              |                   |                                |                |                |           |           |
| Piece                                | Load (kg)         |                                |                |                | Load on 1 | Load on 2 |
| Rigging                              | 4.0               |                                |                |                | 4.0       | 4.0       |
| Totals                               |                   |                                |                |                |           |           |
|                                      |                   |                                |                |                | Load on 1 | Load on 2 |
| Total Weight on Truss (kg)           |                   |                                |                |                | 75.0      |           |
| Total Weight (Including Truss) (kg)  |                   |                                |                |                | 106.5     |           |
| Total Weight on Winch Point (kg)     |                   |                                |                |                | 57        | 59        |
| <b>Both LX Trusses Are Identical</b> |                   |                                |                |                |           |           |

| Load Calculations                      |           |                                |                |                |                |                |           |           |           |           |
|--|-----------|--------------------------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|
| Show                                   |           | Covid Ballet 2020              |                |                |                |                |           |           |           |           |
| Calculated By                          |           | Darren Wilson                  |                |                |                |                |           |           |           |           |
| Aperture Truss- Fully Open             |           |                                |                |                |                |                |           |           |           |           |
| UDL (With In Points)                   |           |                                |                |                |                |                |           |           |           |           |
| Piece                                  | Load (kg) |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |
| H30V Truss (10770mm)                   | 68        |                                |                |                |                |                | 17.0      | 17.0      | 17.0      | 17.0      |
| Track & Rigging (10770mm)              | 45        |                                |                |                |                |                | 11.3      | 11.3      | 11.3      | 11.3      |
| Outwith Points                         |           |                                |                |                |                |                |           |           |           |           |
| Piece                                  | Load (kg) | Total Span Between Points (mm) | Span to 1 (mm) | Span to 2 (mm) | Span to 3 (mm) | Span to 4 (mm) | Load on 1 | Load on 2 | Load on 3 | Load on 4 |
| H30V Truss SR (2798mm)                 | 18        | 3587                           | 2798           |                |                |                | 32.04     | -14.04    | -7.01     | -4.68     |
| H30V Base Plate (SR)                   | 2         | 3587                           | 2798           |                |                |                | 3.56      | -1.56     | -0.78     | -0.52     |
| Track & Rigging SR (2798mm)            | 12        | 3587                           | 2798           |                |                |                | 21.36     | -9.36     | -4.67     | -3.12     |
| 8 x 4 Leg SR                           | 19.5      | 3587                           | 2798           |                |                |                | 34.71     | -15.21    | -7.59     | -5.07     |
| H30V Truss SL (2932mm)                 | 18.5      | 3587                           |                |                |                | 2932           | -5.04     | -7.55     | -15.12    | 33.62     |
| H30V Base Plate (SL)                   | 2         | 3587                           |                |                |                | 2932           | -0.54     | -0.82     | -1.63     | 3.63      |
| Track & Rigging SL (2932mm)            | 12        | 3587                           |                |                |                | 2932           | -3.27     | -4.90     | -9.81     | 21.81     |
| 8 x 4 Leg SL                           | 19.5      | 3587                           |                |                |                | 2932           | -5.31     | -7.96     | -15.94    | 35.44     |
| Hard Masker (with header & runners) SR | 35        | 3587                           | 939            |                |                |                | 44.16     | -9.16     | -4.57     | -3.05     |
| Half Tab (with runners) SR             | 27        | 3587                           | 2548           |                |                |                | 46.18     | -19.18    | -9.58     | -6.39     |
| Hard Masker (with header & runners) SL | 35        | 3587                           |                |                |                | 883            | -2.87     | -4.30     | -8.62     | 43.62     |
| Half Tab (with runners) SL             | 27        | 3587                           |                |                |                | 2678           | -6.71     | -10.06    | -20.16    | 47.16     |
| Hoists & Rigging                       |           |                                |                |                |                |                |           |           |           |           |
| Piece                                  | Load (kg) |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |
| LoadGuard LG50 Chain Hoists            | 30        |                                |                |                |                |                | 30        | 30        | 30        | 30        |
| Rigging                                | 2         |                                |                |                |                |                | 2         | 2         | 2         | 2         |
| Totals                                 |           |                                |                |                |                |                |           |           |           |           |
|  |           |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |
| Total Weight on Truss (kg)             |           |                                |                |                |                |                |           |           | 232       |           |
| Total Weight (Including Truss) (kg)    |           |                                |                |                |                |                |           |           | 217       |           |
| Total Weight on Hoist Point (kg)       |           |                                |                |                |                |                | 187       | -76       | -77       | 191       |
| Total Weight on Beam Point (kg)        |           |                                |                |                |                |                | 219       | -44       | -45       | 223       |

| Load Calculations                      |           |                                |                |                |                |                |           |           |           |           |  |
|--|-----------|--------------------------------|----------------|----------------|----------------|----------------|-----------|-----------|-----------|-----------|--|
| Show                                   |           | Covid Ballet 2020              |                |                |                |                |           |           |           |           |  |
| Calculated By                          |           | Darren Wilson                  |                |                |                |                |           |           |           |           |  |
| Aperture Truss- Closed                 |           |                                |                |                |                |                |           |           |           |           |  |
| Non UDL (With In Points)               |           |                                |                |                |                |                |           |           |           |           |  |
| Piece                                  | Load (kg) | Total Span Between Points (mm) | Span to 1 (mm) | Span to 2 (mm) | Span to 3 (mm) | Span to 4 (mm) | Load on 1 | Load on 2 | Load on 3 | Load on 4 |  |
| Hard Masker (with header & runners) SR | 35        | 3587                           |                | 1071           | 2517           |                |           | 24.56     | 10.45     |           |  |
| Hard Masker (with header & runners) SL | 35        | 3587                           |                | 2465           | 1121           |                |           | 10.94     | 24.05     |           |  |
| UDL (With In Points)                   |           |                                |                |                |                |                |           |           |           |           |  |
| Piece                                  | Load (kg) |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |  |
| H30V Truss (10770mm)                   | 68        |                                |                |                |                |                | 17.0      | 17.0      | 17.0      | 17.0      |  |
| Track & Rigging (10770mm)              | 45        |                                |                |                |                |                | 11.3      | 11.3      | 11.3      | 11.3      |  |
| Half Tab (with runners) SR (4350mm)    | 14.7      |                                |                |                |                |                | 7.4       | 7.4       |           |           |  |
| Half Tab (with runners) SL (4350mm)    | 14.7      |                                |                |                |                |                |           |           | 7.4       | 7.4       |  |
| Outwith Points                         |           |                                |                |                |                |                |           |           |           |           |  |
| Piece                                  | Load (kg) | Total Span Between Points (mm) | Span to 1 (mm) | Span to 2 (mm) | Span to 3 (mm) | Span to 4 (mm) | Load on 1 | Load on 2 | Load on 3 | Load on 4 |  |
| H30V Truss SR (2798mm)                 | 18        | 3587                           | 2798           |                |                |                | 32.04     | -14.04    | -7.01     | -4.68     |  |
| H30V Base Plate (SR)                   | 2         | 3587                           | 2798           |                |                |                | 3.56      | -1.56     | -0.78     | -0.52     |  |
| Track & Rigging SR (2798mm)            | 12        | 3587                           | 2798           |                |                |                | 21.36     | -9.36     | -4.67     | -3.12     |  |
| Half Tab (with runners) SR (3650mm)    | 12.3      | 3587                           | 2798           |                |                |                | 21.89     | -9.59     | -4.79     | -3.20     |  |
| 8 x 4 Leg SR                           | 19.5      | 3587                           | 2798           |                |                |                | 34.71     | -15.21    | -7.59     | -5.07     |  |
| H30V Truss SL (2932mm)                 | 18.5      | 3587                           |                |                |                | 2932           | -5.04     | -7.55     | -15.12    | 33.62     |  |
| H30V Base Plate (SL)                   | 2         | 3587                           |                |                |                | 2932           | -0.54     | -0.82     | -1.63     | 3.63      |  |
| Track & Rigging SL (2932mm)            | 12        | 3587                           |                |                |                | 2932           | -3.27     | -4.90     | -9.81     | 21.81     |  |
| Half Tab (with runners) SL (3650mm)    | 12.3      | 3587                           |                |                |                | 2932           | -3.35     | -5.02     | -10.05    | 22.35     |  |
| 8 x 4 Leg SL                           | 19.5      | 3587                           |                |                |                | 2932           | -5.31     | -7.96     | -15.94    | 35.44     |  |
| Hoists & Rigging                       |           |                                |                |                |                |                |           |           |           |           |  |
| Piece                                  | Load (kg) |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |  |
| LoadGuard LG50 Chain Hoists            | 30        |                                |                |                |                |                | 30        | 30        | 30        | 30        |  |
| Rigging                                | 2         |                                |                |                |                |                | 2         | 2         | 2         | 2         |  |
| Totals                                 |           |                                |                |                |                |                |           |           |           |           |  |
|  |           |                                |                |                |                |                | Load on 1 | Load on 2 | Load on 3 | Load on 4 |  |
| Total Weight on Truss (kg)             |           |                                |                |                |                |                |           |           | 232       |           |  |
| Total Weight (Including Truss) (kg)    |           |                                |                |                |                |                |           |           | 341       |           |  |
| Total Weight on Hoist Point (kg)       |           |                                |                |                |                |                | 134       | -3        | -5        | 138       |  |
| Total Weight on Beam Point (kg)        |           |                                |                |                |                |                | 164       | 27        | 25        | 168       |  |

| Load Calculations                               |                   |                  |
|---|-------------------|------------------|
| Show  | Covid Ballet 2020 |                  |
| Calculated By                                   | Darren Wilson     |                  |
| 1800x6000 Hard Maskers (Hemp)                   |                   |                  |
|   | Load (kg)         |                  |
| Hard Masker                                     | 20                |                  |
| Rigging   | 5                 |                  |
| <b>Totals</b>                                   | <b>Load on 1</b>  | <b>Load on 2</b> |
| Total Weight (kg)                               | 25                |                  |
| Total Weight on Hemp Point (kg)                 | 12.5              | 12.5             |
|   |                   |                  |
| <b>All 8 hard maskers have the same weight.</b> |                   |                  |

| Load Calculations                 |           |                   |           |           |           |           |
|-----------------------------------|-----------|-------------------|-----------|-----------|-----------|-----------|
| Show                              |           | Covid Ballet 2020 |           |           |           |           |
| Calculated By                     |           | Darren Wilson     |           |           |           |           |
| Hemp Bar                          |           |                   |           |           |           |           |
| UDL (With In Points)              |           |                   |           |           |           |           |
| Piece                             | Load (kg) | Load on 1         | Load on 2 | Load on 3 | Load on 4 | Load on 5 |
| 16 x 5 Border                     | 48        | 9.6               | 9.6       | 9.6       | 9.6       | 9.6       |
| Conduit                           | 10        | 2.0               | 2.0       | 2.0       | 2.0       | 2.0       |
| Pipe & Rigging                    | 26        | 5.2               | 5.2       | 5.2       | 5.2       | 5.2       |
| Totals                            |           |                   |           |           |           |           |
|                                   |           | Load on 1         | Load on 2 | Load on 3 | Load on 4 | Load on 5 |
| Total Weight on Bar (kg)          |           | 58                |           |           |           |           |
| Total Weight (Including Bar) (kg) |           | 84                |           |           |           |           |
| Total Weight on Hemp Point (kg)   |           | 17                | 17        | 17        | 17        | 17        |