

令和6年版 建築設備設計計算書の手引の正誤表について

設計計算書の手引 第1刷用正誤表

| 頁                  | 設備                   | 表題                            |                               | 訂正箇所                           | 誤                                                                                                                                                                                                                                                                                                                                                                                                                       | 正                                                                                                                                                                                |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|--------------------|----------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|--------------------|--------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------|--------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|-----------|------|--------|--------|------------|-----|------------|------|------------|------|--|--|--|-------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|------|----|-----|--|------|------|------|--|--|--|--|------|--|-------|------|------|-------|--|--|------|------|------|--|--|--|--|-------|--|
|                    | 機械設備用                | 計算書様式ダウンロード用                  | HPダウンロード更新日時:<br>令和6年11月6日16時 | 計算書様式ダウンロード用データ                | H/R3版計算様式                                                                                                                                                                                                                                                                                                                                                                                                               | R6版計算様式                                                                                                                                                                          |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 機械設備用                | 計算書様式ダウンロード用                  | 計算書様式ダウンロード用データ               | 様式 機-029-2                     | 下記、様式 機-029-2による                                                                                                                                                                                                                                                                                                                                                                                                        | 下記、様式 機-029-2による                                                                                                                                                                 |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 63                 | 電灯設備・<br>動力設備・<br>電路 | 8-1電路計算書（幹線用）（様式-8-1）         | 算出方法の解説3.                     | 幹線L-K-3について（2）                 | $a = \frac{1+0.00393 \cdot (T-t) \cdot L}{\ell} + \frac{\ell-L}{\ell}$ $= (1+0.00393 \times (840-20) \times 10.78) \div 53.9$ $+ (53.9-10.78) \div 53.9$                                                                                                                                                                                                                                                                | $a = \frac{(1+0.00393 \cdot (T-t)) \cdot L}{\ell} + \frac{\ell-L}{\ell}$ $= \{ (1+0.00393 \times (840-20)) \times 10.78 \} \div 53.9$ $+ (53.9-10.78) \div 53.9$                 |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 88                 | 電灯設備・<br>動力設備・<br>電路 | 10(b)短絡電流計算書（三相3線）（様式 電-10-3） | 【様式 電-10-3 各欄の解説・算出例（3）】      | 電源%インピーダンスの解説                  | $\%R_w = \frac{\text{電線の導体抵抗} \cdot \text{基準容量}}{(\text{基準電圧})^2} \cdot 2 \cdot \text{こう長} \cdot 100$                                                                                                                                                                                                                                                                                                                   | $\%R_w = \frac{\text{電線の導体抵抗} \cdot \text{基準容量}}{(\text{基準電圧})^2} \cdot \text{こう長} \cdot 100$                                                                                    |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 88                 | 電灯設備・<br>動力設備・<br>電路 | 10(b)短絡電流計算書（三相3線）（様式 電-10-3） | 【様式 電-10-3 各欄の解説・算出例（3）】      | 電源%インピーダンスの解説                  | $\%X_w = \frac{\text{電線のリアクタンス} \cdot \text{基準容量}}{(\text{基準電圧})^2} \cdot 2 \cdot \text{こう長} \cdot 100$                                                                                                                                                                                                                                                                                                                 | $\%X_w = \frac{\text{電線のリアクタンス} \cdot \text{基準容量}}{(\text{基準電圧})^2} \cdot \text{こう長} \cdot 100$                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 229                | 空機調和設備               | 1 空調負荷計算の算定方法                 | 構造体負荷・ガラス面日射負荷設計条件            | ガラス面日射負荷                       | <table><tr><td></td><td>9時</td><td>9時</td></tr><tr><td>2階 S SG</td><td>0.10</td><td>0.25</td></tr></table>                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                  | 9時               | 9時        | 2階 S SG            | 0.10                                                                                             | 0.25   | <table><tr><td></td><td>9時</td><td>9時</td></tr><tr><td>2階 S SG</td><td>0.11</td><td>0.2</td></tr></table> |        | 9時         | 9時                                                                                                                                                                   | 2階 S SG    | 0.11 | 0.2                                                                                                                                                                                                                                      |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   | 9時                            |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 2階 S SG            | 0.10                 | 0.25                          |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   | 9時                            |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 2階 S SG            | 0.11                 | 0.2                           |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 231                | 空機調和設備               | 1 空調負荷計算の算定方法                 | ガラス面日射面積率（GS）の算定              | 算定表                            | <table><tr><td></td><td>12時</td><td>14時</td></tr><tr><td>X (=B-b'-v tan γ )</td><td>6,220</td><td>5,144</td></tr><tr><td>X/b</td><td></td><td>0.82</td></tr></table>                                                                                                                                                                                                                                                    |                                                                                                                                                                                  | 12時              | 14時       | X (=B-b'-v tan γ ) | 6,220                                                                                            | 5,144  | X/b                                                                                                       |        | 0.82       | <table><tr><td></td><td>12時</td><td>14時</td></tr><tr><td>X (=B-b'-v tan γ )</td><td>6,228</td><td>5,296</td></tr><tr><td>X/b</td><td></td><td>0.84</td></tr></table> |            | 12時  | 14時                                                                                                                                                                                                                                      | X (=B-b'-v tan γ ) | 6,228 | 5,296     | X/b  |        | 0.84   |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 12時                  | 14時                           |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| X (=B-b'-v tan γ ) | 6,220                | 5,144                         |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| X/b                |                      | 0.82                          |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 12時                  | 14時                           |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| X (=B-b'-v tan γ ) | 6,228                | 5,296                         |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| X/b                |                      | 0.84                          |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 231                | 空機調和設備               | 1 空調負荷計算の算定方法                 | ガラス面日射面積率（GS）の算定              | 算定表                            | <table><tr><td></td><td>9時</td></tr><tr><td>tan φ</td><td>4.88</td></tr><tr><td>Wtan φ</td><td>13,176</td></tr><tr><td>y</td><td>174</td></tr><tr><td>y/h</td><td>0.10</td></tr><tr><td>SG=x/b・y/h</td><td>0.07</td></tr></table>                                                                                                                                                                                       |                                                                                                                                                                                  | 9時               | tan φ     | 4.88               | Wtan φ                                                                                           | 13,176 | y                                                                                                         | 174    | y/h        | 0.10                                                                                                                                                                 | SG=x/b・y/h | 0.07 | <table><tr><td></td><td>9時</td></tr><tr><td>tan φ</td><td>4.85</td></tr><tr><td>Wtan φ</td><td>13,095</td></tr><tr><td>y</td><td>255</td></tr><tr><td>y/h</td><td>0.15</td></tr><tr><td>SG=x/b・y/h</td><td>0.11</td></tr></table>        |                    | 9時    | tan φ     | 4.85 | Wtan φ | 13,095 | y          | 255 | y/h        | 0.15 | SG=x/b・y/h | 0.11 |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| tan φ              | 4.88                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| Wtan φ             | 13,176               |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| y                  | 174                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| y/h                | 0.10                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| SG=x/b・y/h         | 0.07                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| tan φ              | 4.85                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| Wtan φ             | 13,095               |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| y                  | 255                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| y/h                | 0.15                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| SG=x/b・y/h         | 0.11                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 235                | 空機調和設備               | 1 空調負荷計算の算定方法                 | 様式 機-006                      | 集計欄                            | 余裕係数(1.0～1.1)<br>余裕係数×送風機負荷(簡潔係数)係数(1)                                                                                                                                                                                                                                                                                                                                                                                  | ダクト損失係数(1.0～1.1)<br>ダクト損失係数×送風機負荷(簡潔係数)係数(1)                                                                                                                                     |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 236                | 空機調和設備               | 1 空調負荷計算の算定方法                 | 様式 機-006                      | 集計欄                            | 余裕係数(1.0～1.1)<br>余裕係数×送風機負荷(簡潔係数)係数(1)                                                                                                                                                                                                                                                                                                                                                                                  | ダクト損失係数(1.0～1.1)<br>ダクト損失係数×送風機負荷(簡潔係数)係数(1)                                                                                                                                     |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 236                | 空機調和設備               | 1 空調負荷計算の算定方法                 | 様式 機-006                      | ガラス面日射負荷・集計                    | <table><tr><td></td><td>9時</td></tr><tr><td>外皮 S OG-1</td><td>14.1</td></tr><tr><td>小計</td><td>155</td></tr><tr><td>外皮負荷小計 補正前</td><td>298</td></tr><tr><td>室内負荷小計 補正後</td><td>328</td></tr><tr><td>室内全熱負荷</td><td>328</td></tr></table>                                                                                                                                                                                |                                                                                                                                                                                  | 9時               | 外皮 S OG-1 | 14.1               | 小計                                                                                               | 155    | 外皮負荷小計 補正前                                                                                                | 298    | 室内負荷小計 補正後 | 328                                                                                                                                                                  | 室内全熱負荷     | 328  | <table><tr><td></td><td>9時</td></tr><tr><td>外皮 S OG-1</td><td>14.2</td></tr><tr><td>小計</td><td>156</td></tr><tr><td>外皮負荷小計 補正前</td><td>299</td></tr><tr><td>室内負荷小計 補正後</td><td>329</td></tr><tr><td>室内全熱負荷</td><td>329</td></tr></table> |                    | 9時    | 外皮 S OG-1 | 14.2 | 小計     | 156    | 外皮負荷小計 補正前 | 299 | 室内負荷小計 補正後 | 329  | 室内全熱負荷     | 329  |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 外皮 S OG-1          | 14.1                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 小計                 | 155                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 外皮負荷小計 補正前         | 298                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 室内負荷小計 補正後         | 328                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 室内全熱負荷             | 328                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 9時                   |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 外皮 S OG-1          | 14.2                 |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 小計                 | 156                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 外皮負荷小計 補正前         | 299                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 室内負荷小計 補正後         | 329                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 室内全熱負荷             | 329                  |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 255                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-1                    | 排ガスの平均密度<br>気体燃料の 計算式 計算       | 煙道内<br>$\rho_g=353/(273+tf) \quad \rho_f=353/(273+297.3) \approx 0.62$                                                                                                                                                                                                                                                                                                                                                  | 煙道内<br>$\rho_g=342/(273+tf) \quad \rho_f=342/(273+297.3) \approx 0.60$                                                                                                           |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 上の排ガス量 直径                      | 煙道部D <sub>1</sub> =1.13√0.126≈0.401 A <sub>1</sub> =0.126<br>煙突部D <sub>2</sub> =1.13√0.116≈0.385 A <sub>2</sub> =0.116                                                                                                                                                                                                                                                                                                  | 煙道部D <sub>1</sub> =1.13√0.123≈0.396 A <sub>1</sub> =0.123<br>煙突部D <sub>2</sub> =1.13√0.120≈0.391 A <sub>2</sub> =0.120                                                           |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空気調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 煙道内排ガス平均速度 計算<br>煙突内排ガス平均速度 計算 | V <sub>1</sub> =1.27×G <sub>1</sub> /((D <sub>1</sub> ) <sup>2</sup> ・3.600)=5.22[m/s]<br>V <sub>2</sub> =1.27×G <sub>2</sub> /((D <sub>2</sub> ) <sup>2</sup> ・3.600)=4.82[m/s]                                                                                                                                                                                                                                        | V <sub>1</sub> =1.27×G <sub>1</sub> /((D <sub>1</sub> ) <sup>2</sup> ・3.600)=5.10[m/s]<br>V <sub>2</sub> =1.27×G <sub>2</sub> /((D <sub>2</sub> ) <sup>2</sup> ・3.600)=4.97[m/s] |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 煙道の通風力 計算 備考                   | Z=1.5×9.81×(1.146-0.62)≈7.74 ρ <sub>f</sub> =0.62                                                                                                                                                                                                                                                                                                                                                                       | Z=1.5×9.81×(1.146-0.60)≈8.03 ρ <sub>f</sub> =0.60                                                                                                                                |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 通風力の合計                         | Z=7.74+103.2+0=110.94                                                                                                                                                                                                                                                                                                                                                                                                   | Z=8.03+103.2+0=111.23                                                                                                                                                            |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 備考欄                            | D <sub>f</sub> :煙突直径 0. m                                                                                                                                                                                                                                                                                                                                                                                               | D <sub>f</sub> :煙突直径 0.35 m                                                                                                                                                      |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 備考欄                            | D <sub>1</sub> :煙道直径 0.35 m/s<br>V <sub>1</sub> :煙突内ガス平均流速 4.82 kg/m <sup>3</sup><br>ρ <sub>f</sub> :煙道内排ガスの平均密度 0.62 kg/m <sup>3</sup><br>ρ <sub>g</sub> :煙突内排ガスの平均密度 0.62                                                                                                                                                                                                                                             | D <sub>1</sub> :煙道直径 0.35 m/s<br>V <sub>1</sub> :煙突内ガス平均流速 4.97 m/s<br>ρ <sub>f</sub> :煙道内排ガスの平均密度 0.60 kg/m <sup>3</sup><br>ρ <sub>g</sub> :煙突内排ガスの平均密度 0.62 kg/m <sup>3</sup>  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 下の煙道・煙突抵抗計算<br>排ガス流速 平均密度 抵抗計  | <table><tr><td>煙道部</td><td>排ガス流速</td><td>平均密度</td><td>抵抗</td><td>抵抗計</td></tr><tr><td></td><td>5.10</td><td>0.62</td><td>3.80</td><td></td></tr><tr><td></td><td></td><td></td><td>8.90</td><td></td></tr><tr><td>煙突排出部</td><td>4.97</td><td>0.62</td><td>26.25</td><td></td></tr><tr><td></td><td>4.97</td><td>0.62</td><td>7.66</td><td></td></tr><tr><td></td><td></td><td></td><td>73.31</td><td></td></tr></table> | 煙道部                                                                                                                                                                              | 排ガス流速            | 平均密度      | 抵抗                 | 抵抗計                                                                                              |        | 5.10                                                                                                      | 0.62   | 3.80       |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          | 8.90               |       | 煙突排出部     | 4.97 | 0.62   | 26.25  |            |     | 4.97       | 0.62 | 7.66       |      |  |  |  | 73.31 |  | <table><tr><td>煙道部</td><td>排ガス流速</td><td>平均密度</td><td>抵抗</td><td>抵抗計</td></tr><tr><td></td><td>5.22</td><td>0.60</td><td>3.70</td><td></td></tr><tr><td></td><td></td><td></td><td>8.60</td><td></td></tr><tr><td>煙突排出部</td><td>4.82</td><td>0.62</td><td>24.69</td><td></td></tr><tr><td></td><td>4.82</td><td>0.62</td><td>7.20</td><td></td></tr><tr><td></td><td></td><td></td><td>72.01</td><td></td></tr></table> | 煙道部 | 排ガス流速 | 平均密度 | 抵抗 | 抵抗計 |  | 5.22 | 0.60 | 3.70 |  |  |  |  | 8.60 |  | 煙突排出部 | 4.82 | 0.62 | 24.69 |  |  | 4.82 | 0.62 | 7.20 |  |  |  |  | 72.01 |  |
| 煙道部                | 排ガス流速                | 平均密度                          | 抵抗                            | 抵抗計                            |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 5.10                 | 0.62                          | 3.80                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    |                      |                               | 8.90                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 煙突排出部              | 4.97                 | 0.62                          | 26.25                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 4.97                 | 0.62                          | 7.66                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    |                      |                               | 73.31                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 煙道部                | 排ガス流速                | 平均密度                          | 抵抗                            | 抵抗計                            |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 5.22                 | 0.60                          | 3.70                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    |                      |                               | 8.60                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 煙突排出部              | 4.82                 | 0.62                          | 24.69                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    | 4.82                 | 0.62                          | 7.20                          |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
|                    |                      |                               | 72.01                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 256                | 空機調和設備               | 7.煙突及び煙道の算定方法                 | 様式 機-007-2                    | 一番下の欄 Z値 h <sub>2</sub> 値      | <table><tr><td>Z値</td><td>h<sub>2</sub>値</td></tr><tr><td>110.94</td><td>73.31</td></tr></table>                                                                                                                                                                                                                                                                                                                        | Z値                                                                                                                                                                               | h <sub>2</sub> 値 | 110.94    | 73.31              | <table><tr><td>Z値</td><td>h<sub>2</sub>値</td></tr><tr><td>111.23</td><td>72.01</td></tr></table> | Z値     | h <sub>2</sub> 値                                                                                          | 111.23 | 72.01      |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| Z値                 | h <sub>2</sub> 値     |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 110.94             | 73.31                |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| Z値                 | h <sub>2</sub> 値     |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 111.23             | 72.01                |                               |                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 264                | 空機調和設備               | 9 ユニット形空調和機（全空気方式）算定方法        | 様式 機-022-3                    | 設計仕様欄 一番下                      | 抵抗 [Pa]<br>機外静圧 機外静圧<br>471 341                                                                                                                                                                                                                                                                                                                                                                                         | 抵抗 [Pa]<br>機外静圧 機外静圧<br>451 321                                                                                                                                                  |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 264                | 空機調和設備               | 9 ユニット形空調和機（全空気方式）算定方法        | 様式 機-022-3                    | 備考欄                            | ・・・機外静圧は様式 機-051より選定する。                                                                                                                                                                                                                                                                                                                                                                                                 | ・・・機外静圧は様式 機-054より選定する。                                                                                                                                                          |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 269                | 空機調和設備               | 10 ユニット形空調和機（大温度差送風方式）の算定方法   | 様式 機-022-3                    | 能力算定 冷温水量欄                     | 3,600×79.4/60×4.19×10 ∠t <sub>we</sub> = 10<br>L <sub>cw</sub> = 114                                                                                                                                                                                                                                                                                                                                                    | 3,600×79.4/60×4.19×7 ∠t <sub>we</sub> = 7<br>L <sub>cw</sub> = 157                                                                                                               |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 284                | 空機調和設備               | 13 パッケージ形空調和機の算定方法            | 様式 機-029-2                    | 冷房・暖房能力欄                       | H <sub>co1</sub> 、H <sub>ho1</sub> 冷房・暖房H <sub>co</sub> 、H <sub>ho</sub><br>(=H <sub>co1</sub> 又はH <sub>ho1</sub> /①/②)                                                                                                                                                                                                                                                                                                 | H <sub>co</sub> 、H <sub>ho</sub> 冷房・暖房H <sub>co1</sub> 、H <sub>ho1</sub><br>(=H <sub>co</sub> 又はH <sub>ho1</sub> /①/②)                                                           |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 284                | 空機調和設備               | 13 パッケージ形空調和機の算定方法            | 様式 機-029-2                    | 組み合わせ確認欄                       | 室外機に必要な能力<br>((H <sub>collin</sub> 、H <sub>co</sub> )、(H <sub>collin</sub> 、H <sub>ho</sub> ))の大きい方)                                                                                                                                                                                                                                                                                                                    | 室外機に必要な能力<br>((H <sub>collin</sub> 、H <sub>co1</sub> )、(H <sub>collin</sub> 、H <sub>ho1</sub> ))の大きい方)                                                                           |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 288                | 空機調和設備               | 15 空気清浄機の算定方法                 | 様式 機-031                      | 設計仕様欄 一番下                      | 形式 初期抵抗 [Pa]<br>折込形 140                                                                                                                                                                                                                                                                                                                                                                                                 | 形式 初期抵抗 [Pa]<br>折込形 薄形 100                                                                                                                                                       |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 290                | 空機調和設備               | 16 水蓄熱システムの算定方法               | 様式 機-032                      | 熱源容量欄 3か所づつ                    | K <sub>3</sub> : K <sub>4</sub> : K <sub>5</sub> :                                                                                                                                                                                                                                                                                                                                                                      | K <sub>3</sub> : K <sub>4</sub> : K <sub>5</sub> :                                                                                                                               |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 292                | 空機調和設備               | 17 水蓄熱システムの算定方法               | 様式 機-033                      | 熱源容量欄 3か所づつ                    | K <sub>3</sub> : K <sub>4</sub> : K <sub>8</sub> : K <sub>9</sub> :                                                                                                                                                                                                                                                                                                                                                     | K <sub>3</sub> : K <sub>4</sub> : K <sub>5</sub> : K <sub>8</sub> :                                                                                                              |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |
| 292                | 空機調和設備               | 17 水蓄熱システムの算定方法               | 様式 機-033                      | 水蓄熱槽容量欄 V <sub>1</sub> の式中     | K <sub>9</sub>                                                                                                                                                                                                                                                                                                                                                                                                          | K <sub>8</sub>                                                                                                                                                                   |                  |           |                    |                                                                                                  |        |                                                                                                           |        |            |                                                                                                                                                                      |            |      |                                                                                                                                                                                                                                          |                    |       |           |      |        |        |            |     |            |      |            |      |  |  |  |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |     |       |      |    |     |  |      |      |      |  |  |  |  |      |  |       |      |      |       |  |  |      |      |      |  |  |  |  |       |  |

|     |         |                      |                         |                      |                                                                                              |                                                                                            |
|-----|---------|----------------------|-------------------------|----------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 317 | 空機調和設備  | 23ダクトの算定方法           | 様式 機-054                | ダクトの抵抗計算欄 A～B区間      | 種類 風速 局部抵抗 分岐・曲<br>v 部等 压力損失計<br>(m/s) ζ [Pa]<br>压力損失 (53.0)<br>備考<br>急縮小2.8 0.41 1.9 ζ=0.41 | 種類 風速 局部抵抗 分岐・曲 压力損失計<br>v 部等 [Pa]<br>(m/s) ζ 压力損失 (66.9)<br>備考<br>急縮小2.0 6.57 15.8 ζ=6.57 |
| 317 | 空機調和設備  | 23ダクトの算定方法           | 様式 機-054                | ダクトの抵抗計算欄 C～D区間      | 種類 風速 局部抵抗 分岐・曲 压力損失計<br>v 部等 [Pa]<br>(m/s) ζ 压力損失 (40.0)<br>備考<br>急縮小6.1 0.43 9.6 ζ=0.43    | 種類 風速 局部抵抗 分岐・曲 压力損失計<br>v 部等 [Pa]<br>(m/s) ζ 压力損失 (43.0)<br>備考<br>急縮小0.7 42.8 12.6 ζ=42.8 |
| 317 | 空機調和設備  | 23ダクトの算定方法           | 様式 機-054                | ダクトの抵抗計算欄 E～F区間      | 種類 風速 局部抵抗 分岐・曲 压力損失計<br>v 部等 [Pa]<br>(m/s) ζ 压力損失 (38.4)<br>備考<br>急縮小0.3 0.43 0.1 ζ=0.43    | 種類 風速 局部抵抗 分岐・曲 压力損失計<br>v 部等 [Pa]<br>(m/s) ζ 压力損失 (40.6)<br>備考<br>急縮小0.3 42.8 2.3 ζ=42.8  |
| 317 | 空機調和設備  | 23ダクトの算定方法           | 様式 機-054                | ダクトの抵抗計算欄            | 機器類压力損失 280 エアフィルター-初期圧損140<br>+フィルター-(目詰まり)120<br>送風機全圧 471<br>機外静圧 341                     | 機器類压力損失 200 エアフィルター-折込形薄形<br>初期圧損100<br>+フィルター-(目詰まり)100<br>送風機全圧 451<br>機外静圧 321          |
| 360 | 給排水衛生設備 | 28.ポンプ直送方式の算定方法      | 様式 機-104                | 抵抗計算欄                | 区間 区分 抵抗種別 実管長 抵抗・高低差<br>(J'～L) 90° T分 3.5 3.59 0.05<br>小計 2.56                              | 区間 区分 抵抗種別 実管長 抵抗・高低差<br>(J'～L) 90° T 0.9 0.9 0.01<br>小計 2.52                              |
| 362 | 給排水衛生設備 | 28.ポンプ直送方式の算定方法      | 受水タンク以降の給水立<br>主管系統図 上水 | J'～L管の立管口径           | 40                                                                                           | 50                                                                                         |
| 378 | 給排水衛生設備 | 31 中央式給湯設備の差<br>安定方法 | 様式 機-113-1              | 時間最大予想給湯量の欄          | 給湯温度<br>t <sub>h</sub>                                                                       | 給湯温度<br>t <sub>h</sub>                                                                     |
| 378 | 給排水衛生設備 | 31 中央式給湯設備の差<br>安定方法 | 様式 機-113-1              | 貯湯量の欄                | 貯湯量 Q [L] Q=K <sub>3</sub> /Q <sub>h</sub><br>1,440                                          | 貯湯量 Q [L] Q=K <sub>3</sub> /Q <sub>h</sub><br>930                                          |
| 379 | 給排水衛生設備 | 31 中央式給湯設備の差<br>安定方法 | 様式 機-113-2              | 時間最大予想給湯量の欄          | 給湯温度<br>t <sub>h</sub>                                                                       | 給湯温度<br>t <sub>h</sub>                                                                     |
| 387 | 給排水衛生設備 | 31 中央式給湯設備の差<br>安定方法 | 様式 機-118                | 循環湯量の計算欄 □で囲った部<br>分 | 様式 機-113(p.372)の条件より                                                                         | 様式 機-113(p.382)の条件より                                                                       |