

改訂版 実務から見た木造構造設計 〈正誤表〉

学芸出版社編集部

| 該当箇所 | 正 |
|------------------------|---|
| p.19 【d】伏図 2階梁伏図 | <p style="text-align: center;">正</p> <p>パーティクルボード削除</p> <p>パーティクルボードこちらへ</p> <p>⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①</p> <p>7,200 2,700 900 1,800 900 900 900 900 450 900 900 900 900 450 900 2,700 900 4,500</p> <p>(A) (B) (C) (D) (E) (F)</p> <p style="text-align: center;">2階 梁伏図</p> |

| 該当箇所 | 正 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|-----------------------|---------------------------------------|-----------------------|---------------------|--------------------|--------|-------|--------|----|----|-----|---------------------------------------|-------|--|--|--|-------|--------------|--------------|----------------|--|--|--|------|-----|--------------------------------------|------|-------|-------|--|--|--|---------------------------------------|-------|---------|---------|----|--|------|-----|----------------------------------|------|--|--|--|----|-----|----------------|--------------|------------------|--|--|--|------|-----|-------|-------|--|--|--|------|-----|---------------------------------------|-------|--|--|--|------|-----|-------|------|-------------------|--------------------|-----|------|-----|---------------------------------|------|--|--|--|-------|----------------|--------------|----------------|--|--|--|-----|-----|----------------------|------|--|--|--|----|-----|----------------|--------------|------------------|--|--|--|------|-----|-------|-------|--|--|--|------|-----|---------------------------------------|-------|-------------------|--------------------|-----|------|-----|------|------|--|--|--|------|-----|---------------------------------|------|--|--|--|----|-----|--------|--------------|---------|--|--|--|------|-----|-------|-------|---------|----------|-------|------|-----|------|------|--|--|--|
| p.58 351 建物重量の算定 | <p>351 建物重量の算定</p> <table border="1"> <thead> <tr> <th>階</th> <th>項目</th> <th>荷重[N/m²]</th> <th>面積[m²]</th> <th>小計[N]</th> <th>計[N]</th> <th>合計[N]</th> <th>設計[kN]</th> </tr> </thead> <tbody> <tr> <td rowspan="4">3階</td> <td>屋根</td> <td>700</td> <td>(4.5+0.3+0.3)×(7.2+0.6+0.6) =42.84</td> <td>29988</td> <td></td> <td></td> <td></td> </tr> <tr> <td>小屋裏物置</td> <td>550 (750)</td> <td>2.7×3.6=9.72</td> <td>5346 (7290)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3階外壁</td> <td>450</td> <td>($\frac{4.5}{2} \times 1.2$)×2=5.4</td> <td>2430</td> <td>57932</td> <td>57932</td> <td></td> </tr> <tr> <td></td> <td></td> <td>(4.5×2+7.2×2)×$\frac{2.7}{2}$=31.59</td> <td>14215</td> <td>(59876)</td> <td>(59876)</td> <td>58</td> </tr> <tr> <td></td> <td>3階内壁</td> <td>350</td> <td>0.9×$\frac{2.7}{2}$×14ヶ所=17.01</td> <td>5953</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="6">2階</td> <td>3階床</td> <td>1260 (1960)</td> <td>4.5×7.2=32.4</td> <td>40824 (63504)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3階外壁</td> <td>450</td> <td>31.59</td> <td>14215</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2階外壁</td> <td>450</td> <td>(4.5×2+7.2×2)×$\frac{2.8}{2}$=32.76</td> <td>14742</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3階内壁</td> <td>350</td> <td>17.01</td> <td>5953</td> <td>88001 (112949)</td> <td>145933 (172825)</td> <td>146</td> </tr> <tr> <td>2階内壁</td> <td>350</td> <td>0.9×$\frac{2.8}{2}$×10ヶ所=12.6</td> <td>4410</td> <td></td> <td></td> <td></td> </tr> <tr> <td>バルコニー</td> <td>1600 (2300)</td> <td>0.9×3.6=3.24</td> <td>5184 (7452)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>手すり</td> <td>450</td> <td>(0.9×2+3.6)×1.1=5.94</td> <td>2673</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="5">1階</td> <td>2階床</td> <td>1070 (1770)</td> <td>4.5×7.2=32.4</td> <td>34668 (57348)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2階外壁</td> <td>450</td> <td>32.76</td> <td>14742</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1階外壁</td> <td>450</td> <td>(4.5×2+7.2×2)×$\frac{2.8}{2}$=32.76</td> <td>14742</td> <td>77382 (100062)</td> <td>223315 (272887)</td> <td>224</td> </tr> <tr> <td>2階内壁</td> <td>350</td> <td>12.6</td> <td>4410</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1階内壁</td> <td>350</td> <td>0.9×$\frac{2.8}{2}$×20ヶ所=25.2</td> <td>8820</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="3">基礎</td> <td>1階床</td> <td>(1740)</td> <td>4.5×7.2=32.4</td> <td>(56376)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1階外壁</td> <td>450</td> <td>32.76</td> <td>14742</td> <td>(79938)</td> <td>(352825)</td> <td>(353)</td> </tr> <tr> <td>1階内壁</td> <td>350</td> <td>25.2</td> <td>8820</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | 階 | 項目 | 荷重[N/m ²] | 面積[m ²] | 小計[N] | 計[N] | 合計[N] | 設計[kN] | 3階 | 屋根 | 700 | (4.5+0.3+0.3)×(7.2+0.6+0.6) =42.84 | 29988 | | | | 小屋裏物置 | 550 (750) | 2.7×3.6=9.72 | 5346 (7290) | | | | 3階外壁 | 450 | ($\frac{4.5}{2} \times 1.2$)×2=5.4 | 2430 | 57932 | 57932 | | | | (4.5×2+7.2×2)× $\frac{2.7}{2}$ =31.59 | 14215 | (59876) | (59876) | 58 | | 3階内壁 | 350 | 0.9× $\frac{2.7}{2}$ ×14ヶ所=17.01 | 5953 | | | | 2階 | 3階床 | 1260 (1960) | 4.5×7.2=32.4 | 40824 (63504) | | | | 3階外壁 | 450 | 31.59 | 14215 | | | | 2階外壁 | 450 | (4.5×2+7.2×2)× $\frac{2.8}{2}$ =32.76 | 14742 | | | | 3階内壁 | 350 | 17.01 | 5953 | 88001 (112949) | 145933 (172825) | 146 | 2階内壁 | 350 | 0.9× $\frac{2.8}{2}$ ×10ヶ所=12.6 | 4410 | | | | バルコニー | 1600 (2300) | 0.9×3.6=3.24 | 5184 (7452) | | | | 手すり | 450 | (0.9×2+3.6)×1.1=5.94 | 2673 | | | | 1階 | 2階床 | 1070 (1770) | 4.5×7.2=32.4 | 34668 (57348) | | | | 2階外壁 | 450 | 32.76 | 14742 | | | | 1階外壁 | 450 | (4.5×2+7.2×2)× $\frac{2.8}{2}$ =32.76 | 14742 | 77382 (100062) | 223315 (272887) | 224 | 2階内壁 | 350 | 12.6 | 4410 | | | | 1階内壁 | 350 | 0.9× $\frac{2.8}{2}$ ×20ヶ所=25.2 | 8820 | | | | 基礎 | 1階床 | (1740) | 4.5×7.2=32.4 | (56376) | | | | 1階外壁 | 450 | 32.76 | 14742 | (79938) | (352825) | (353) | 1階内壁 | 350 | 25.2 | 8820 | | | |
| 階 | 項目 | 荷重[N/m ²] | 面積[m ²] | 小計[N] | 計[N] | 合計[N] | 設計[kN] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3階 | 屋根 | 700 | (4.5+0.3+0.3)×(7.2+0.6+0.6) =42.84 | 29988 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 小屋裏物置 | 550 (750) | 2.7×3.6=9.72 | 5346 (7290) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3階外壁 | 450 | ($\frac{4.5}{2} \times 1.2$)×2=5.4 | 2430 | 57932 | 57932 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | (4.5×2+7.2×2)× $\frac{2.7}{2}$ =31.59 | 14215 | (59876) | (59876) | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3階内壁 | 350 | 0.9× $\frac{2.7}{2}$ ×14ヶ所=17.01 | 5953 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2階 | 3階床 | 1260 (1960) | 4.5×7.2=32.4 | 40824 (63504) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3階外壁 | 450 | 31.59 | 14215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2階外壁 | 450 | (4.5×2+7.2×2)× $\frac{2.8}{2}$ =32.76 | 14742 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3階内壁 | 350 | 17.01 | 5953 | 88001 (112949) | 145933 (172825) | 146 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2階内壁 | 350 | 0.9× $\frac{2.8}{2}$ ×10ヶ所=12.6 | 4410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | バルコニー | 1600 (2300) | 0.9×3.6=3.24 | 5184 (7452) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 手すり | 450 | (0.9×2+3.6)×1.1=5.94 | 2673 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1階 | 2階床 | 1070 (1770) | 4.5×7.2=32.4 | 34668 (57348) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2階外壁 | 450 | 32.76 | 14742 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1階外壁 | 450 | (4.5×2+7.2×2)× $\frac{2.8}{2}$ =32.76 | 14742 | 77382 (100062) | 223315 (272887) | 224 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2階内壁 | 350 | 12.6 | 4410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1階内壁 | 350 | 0.9× $\frac{2.8}{2}$ ×20ヶ所=25.2 | 8820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 基礎 | 1階床 | (1740) | 4.5×7.2=32.4 | (56376) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1階外壁 | 450 | 32.76 | 14742 | (79938) | (352825) | (353) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1階内壁 | 350 | 25.2 | 8820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| p.64 360 風圧力の計算 | <p>【b】風力係数 $C_f = C_{pe}$</p> <p>□張り間方向 勾配 5寸</p> <p>①屋根の風力係数 表 4・15 屋根面のC_{pe} $\theta=26.56^\circ$ 実務图表 4・1</p> <p style="text-align: center;">\Rightarrow $\theta=26.56^\circ$ -0.5 -0.5 -0.5</p> <p style="text-align: right;">風上面 正の係数 0.17 負の係数 -0.42 風下面 -0.5</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 該当箇所 | 正 |
| p.71 図 5・5 | |
| p.72 5.2.2 (設計例 7) 大梁の設計 | <p>② 設計荷重</p> <p>[433] 320 積載荷重と床荷重一覧表より</p> <p>床 $w = 660 \text{ N/m}^2 + 1300 \text{ N/m}^2 = 1960 \text{ N/m}^2$ 固定荷重: 3 階梁用 積載荷重: 3 階梁用</p> <p>削除 間仕切壁 $w' = 350 \text{ N/m}^2$</p> <p>小梁の荷重負担面積 $A_2 = 2.7 \text{ m} \times 0.9 \text{ m} = 2.43 \text{ m}^2$ $W_2 = 1960 \text{ N/m}^2 \times 2.43 \text{ m}^2 = 4762 \text{ N}$ 反力 $\frac{W_2}{2} = \frac{4762 \text{ N}}{2} = 2381 \text{ N}$</p> <p>大梁の荷重負担面積 $A_1 = 3.6 \text{ m} \times 0.45 \text{ m} = 1.62 \text{ m}^2$ $W_1 = 1960 \text{ N/m}^2 \times 1.62 \text{ m}^2 = 3175 \text{ N}$ 3 階 間仕切壁 $A_2 = 3.6 \text{ m} \times 2.7 \text{ m} = 9.72 \text{ m}^2$ $W_2 = 350 \text{ N/m}^2 \times 9.72 \text{ m}^2 = 3402 \text{ N}$</p> <p>$L M = \frac{(W_1 + W_2) \times l}{8} = \frac{3175 \text{ N} \times 3.6 \text{ m}}{8} = 1428 \text{ N}\cdot\text{m}$ ①</p> <p>大梁に作用する小梁 3 本分 $W = 2381 \text{ N} \times 3 \text{ 本} = 7143 \text{ N}$ 反力 $\frac{7143 \text{ N}}{2} = 3571 \text{ N}$</p> <p>$L M = 3571 \text{ N} \times 1.8 \text{ m} - 2381 \text{ N} \times 0.9 \text{ m} = 4284 \text{ N}\cdot\text{m}$ ② 計 $L M = 5712 \text{ N}\cdot\text{m}$ ① + ②</p> <p>図 5・6 大梁の応力</p> |

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| p.73 522 (続き) | <p>たわみ用 $w_{\delta} = 660 \text{ N/m}^2 + 600 \text{ N/m}^2 = 1260 \text{ N/m}^2$ 積載荷重: 3階地震力用</p> <p>小梁のたわみ用荷重</p> $W_{2\delta}'' = 1260 \text{ N/m}^2 \times 2.43 \text{ m}^2 = 3061 \text{ N}$ <p>反力 $W_{2\delta}' = \frac{W_{2\delta}''}{2} = \frac{3061 \text{ N}}{2} = 1530 \text{ N}$</p> <p>大梁のたわみ用荷重は、小梁分 $W_{2\delta}$、大梁負担分 $W_{1\delta}$、間仕切壁 W_2 の和として計算する。 削除</p> <p>小梁 3 本分 $W_{2\delta} = W_{2\delta}' \times 3 \text{ 本} = 1530 \text{ N} \times 3 \text{ 本} = 4590 \text{ N}$</p> $W_{1\delta} = 1260 \text{ N/m}^2 \times 1.62 \text{ m}^2 = 2041 \text{ N}$ <p>たわみ用 $W_{\delta} = W_{2\delta} + W_{1\delta} + W_2 = 4590 \text{ N} + 2041 \text{ N} + 3402 \text{ N} = 6631 \text{ N}$</p> <p>③ 設計用許容応力度</p> <p>べいまつ $Lf_b = 10.34 \text{ N/mm}^2$</p> $Lf_s = 0.88 \text{ N/mm}^2$ <p>④ 曲げ応力度の検討</p> <p>大梁断面係数 $Z = \frac{b \cdot h^2}{6} = \frac{105 \text{ mm} \times 300^2 \text{ mm}^2}{6} = 1575 \times 10^3 \text{ mm}^3$</p> $\frac{L M}{Z} \cdot \frac{1}{Lf_b} = \frac{5712 \times 10^3 \text{ N} \cdot \text{mm}}{1575 \times 10^3 \text{ mm}^3} \cdot \frac{1}{10.34 \text{ N/mm}^2} = 0.35 < 1.0 \quad \text{OK}$ <p>⑤せん断応力度の検討</p> <p>せん断力 $LQ = 1587 \text{ N} + 3571 \text{ N} = 5158 \text{ N}$</p> <p>大梁断面積 $A = 105 \text{ mm} \times 300 \text{ mm} = 31500 \text{ mm}^2$</p> $\frac{1.5 L Q}{A} \cdot \frac{1}{Lf_s} = \frac{1.5 \times 5158 \text{ N}}{31500 \text{ mm}^2} \cdot \frac{1}{0.88 \text{ N/mm}^2} = 0.279 < 1.0 \quad \text{OK}$ <p>⑥ たわみの検討</p> <p>たわみ用 $W_{\delta} = 6631 \text{ N}$</p> <p>曲げ剛性 $E \cdot I$ の算定</p> <p>断面 2 次モーメント $I = \frac{b \cdot h^3}{12} = \frac{105 \text{ mm} \times 300^3 \text{ mm}^3}{12} = 236 \times 10^6 \text{ mm}^4$</p> <p>曲げ剛性 $E \cdot I = 10 \times 10^3 \text{ N/mm}^2 \times 236 \times 10^6 \text{ mm}^4 = 2360 \times 10^9 \text{ N} \cdot \text{mm}^2$</p> <p>たわみ 变形増大係数 $\times \delta = 2 \times \frac{5 W_{\delta} \cdot l^3}{384 E \cdot I} = 2 \times \frac{5 \times 6631 \text{ N} \times 3600^3 \text{ mm}^3}{384 \times 2360 \times 10^9 \text{ N} \cdot \text{mm}^2}$</p> $= 3.413 \text{ mm} < \frac{3600 \text{ mm}}{250} = 14.4 \text{ mm} \quad \text{OK}$ |
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| p.110 【a】基本事項 | <p>540 軸組長さのチェック</p> <p>【a】基本事項</p> <p>許容せん断耐力 $P_a = \text{軸組倍率} \times \text{基準耐力} (1.960\text{kN/m}) \times \text{壁実長}$</p> <table border="1"> <thead> <tr> <th>軸組倍率</th> <th>倍率</th> </tr> </thead> <tbody> <tr> <td>片筋かい</td> <td>$\frac{45 \times 90}{45 \times 90} \quad 2.0$</td> </tr> <tr> <td>たすき掛け筋かい</td> <td>$\frac{45 \times 90}{45 \times 90} \quad 4.0$</td> </tr> <tr> <td>パーティクルボード</td> <td>$\frac{12}{12} \quad 2.5$</td> </tr> <tr> <td>両面パーティクルボード</td> <td>12 5.0</td> </tr> <tr> <td></td> <td>削除</td> </tr> </tbody> </table> | 軸組倍率 | 倍率 | 片筋かい | $\frac{45 \times 90}{45 \times 90} \quad 2.0$ | たすき掛け筋かい | $\frac{45 \times 90}{45 \times 90} \quad 4.0$ | パーティクルボード | $\frac{12}{12} \quad 2.5$ | 両面パーティクルボード | 12 5.0 | | 削除 |
| 軸組倍率 | 倍率 | | | | | | | | | | | | |
| 片筋かい | $\frac{45 \times 90}{45 \times 90} \quad 2.0$ | | | | | | | | | | | | |
| たすき掛け筋かい | $\frac{45 \times 90}{45 \times 90} \quad 4.0$ | | | | | | | | | | | | |
| パーティクルボード | $\frac{12}{12} \quad 2.5$ | | | | | | | | | | | | |
| 両面パーティクルボード | 12 5.0 | | | | | | | | | | | | |
| | 削除 | | | | | | | | | | | | |
| p.111 【c】筋かい位置図（設計軸組） | <p>2階</p> <p>【c】筋かい位置図（設計軸組）</p> <p>1階 $\sum D_x = 36$ $\sum D_y = 20 + (⑧) = 28$</p> <p>2階 $\sum D_x = 22.5$ $\sum D_y = 16 + (④) = 20$</p> <p>3階 $\sum D_x = 13$ $\sum D_y = 8 + (2.5) = 10.5$</p> | | | | | | | | | | | | |
| p.122 図 10・4 ②通り | <p>①通り</p> <p>②通り</p> <p>図 10・4 設計事例軸組図一覧</p> | | | | | | | | | | | | |

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| 該当箇所 p.123 図 10・4 (続き) ⑥通り | |
| p.160 図 11・13 2階 | <p style="text-align: center;"> $\sum D_x = 36$ $\sum D_y = 20 + \textcircled{8} = 28$ </p> <p style="text-align: center;"> $\sum D_x = 22.5$ $\sum D_y = 16 + \textcircled{4} = 20$ </p> <p style="text-align: center;"> $\sum D_x = 13$ $\sum D_y = 8 + \textcircled{2.5} = 10.5$ </p> |

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| p.205 1342 〈設計例 31〉 べた基礎の設計 | <p>① 設計条件</p> <p>コンクリート 普通 $F_c = 18 \text{ N/mm}^2$ $Lf_s = 0.6 \text{ N/mm}^2$ $sf_s = 1.2 \text{ N/mm}^2$ 鉄筋 SD295 $F = 295 \text{ N/mm}^2$ $Lf_t = 195 \text{ N/mm}^2$ $sf_t = 292.5 \text{ N/mm}^2$</p> <p>荷重 454 351 建物重量の算定より 基礎用 $W = 353 \text{ kN}$ (基礎自重含まず)</p> <p>② 基礎底面積と地反力の算定</p> <p>基礎底面積 $A = 4.5 \text{ m} \times 7.2 \text{ m} = 32.4 \text{ m}^2$</p> <p>スラブ配筋設計用荷重 (地反力) $w = \frac{W}{A} = \frac{353 \text{ kN}}{32.4 \text{ m}^2} = 10.895 \text{ kN/m}^2 \rightarrow 11 \text{ kN/m}^2$</p> |
| p.206 1342 (続き) | <p>建物全重量 $\sum N = 353 \text{ kN} + 225 \text{ kN} = 578 \text{ kN}$</p> <p>接地圧 $\sigma_e = \frac{\sum N}{A} = \frac{578 \text{ kN}}{32.4 \text{ m}^2} = 17.839 \text{ kN/m}^2 < f_e = 20 \text{ kN/m}^2 < f_e = 50 \text{ kN/m}^2$ OK 粘土質地盤 ローム層地盤</p> |