

Supplementary Materials
FileS6: Thermal_Loads

THERMAL LOADS CALCULATIONS SUMMARY

The present annex belongs to the original academic work of 2013. It is all redacted in Spanish as computer program output. For the purposes of the study the numbers are the main information, and if needed, the technical terms should be easy to understand to most English speakers

SOLUCION (A) UNIFAMILIAR.

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Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

1.- PARÁMETROS GENERALES

Término municipal: Mancha Real

Latitud (grados): 37.8 grados

Altitud sobre el nivel del mar: 770 m

Percentil para verano: 5.0 %

Temperatura seca verano: 33.35 °C

Temperatura húmeda verano: 21.60 °C

Oscilación media diaria: 17.3 °C

Oscilación media anual: 40.1 °C

Percentil para invierno: 97.5 %

Temperatura seca en invierno: -4.30 °C

Humedad relativa en invierno: 90 %

Velocidad del viento: 5.4 m/s

Temperatura del terreno: 5.00 °C

Porcentaje de mayoración por la orientación N: 20 %

Porcentaje de mayoración por la orientación S: 0 %

Porcentaje de mayoración por la orientación E: 10 %

Porcentaje de mayoración por la orientación O: 10 %

Suplemento de intermitencia para calefacción: 5 %

Porcentaje de cargas debido a la propia instalación: 3 %

Porcentaje de mayoración de cargas (Invierno): 0 %

Porcentaje de mayoración de cargas (Verano): 0 %

2.- RESUMEN DE LOS RESULTADOS DE CÁLCULO DE LOS RECINTOS

Refrigeración

| Conjunto: V1 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S1 | Planta baja | 179.48 | 626.09 | 834.89 | 829.74 | 1038.54 | 64.80 | 36.56 | 162.82 | 56.31 | 866.30 | 1201.36 |
| C1 | Planta baja | 59.39 | 329.85 | 440.23 | 400.91 | 511.29 | 69.23 | 73.82 | 213.02 | 75.33 | 474.73 | 724.32 |
| E1 | Planta baja | 23.54 | 31.48 | 31.48 | 56.67 | 56.67 | 28.29 | 26.51 | 82.27 | 13.26 | 83.18 | 138.94 |
| D11 | Planta 1 | 120.64 | 171.02 | 205.82 | 300.42 | 335.22 | 37.70 | 80.39 | 156.20 | 35.19 | 380.81 | 491.41 |
| D21 | Planta 1 | 124.12 | 167.00 | 236.60 | 299.86 | 369.46 | 36.00 | 20.31 | 90.45 | 42.30 | 320.17 | 459.91 |
| D31 | Planta 1 | 133.93 | 165.33 | 234.93 | 308.23 | 377.83 | 36.00 | 20.31 | 90.45 | 44.47 | 328.54 | 468.29 |
| P1 | Planta 1 | 34.31 | 21.92 | 21.92 | 57.92 | 57.92 | 21.77 | 23.21 | 66.97 | 15.49 | 81.13 | 124.89 |
| Total | | | | | | | 293.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3524.1 |

| Conjunto: V10 | | | | | | | | | | | | |
|---------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S10 | Planta baja | 110.20 | 630.70 | 839.50 | 763.13 | 971.93 | 64.80 | 36.56 | 162.82 | 52.34 | 799.69 | 1134.75 |
| C10 | Planta baja | 74.97 | 339.33 | 449.46 | 426.73 | 536.86 | 68.78 | 64.46 | 200.04 | 77.14 | 491.18 | 736.90 |
| E10 | Planta baja | 22.81 | 31.05 | 31.05 | 55.47 | 55.47 | 27.89 | 26.14 | 81.13 | 13.22 | 81.61 | 136.60 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

| Conjunto: V10 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D20 | Planta 1 | 139.70 | 170.32 | 205.12 | 319.32 | 354.12 | 37.45 | 79.87 | 155.18 | 36.72 | 399.19 | 509.30 |
| D44 | Planta 1 | 113.81 | 148.25 | 183.05 | 269.93 | 304.73 | 36.00 | 76.77 | 149.16 | 41.22 | 346.70 | 453.88 |
| D52 | Planta 1 | 102.05 | 145.59 | 180.39 | 255.07 | 289.87 | 36.00 | 76.77 | 149.16 | 41.16 | 331.84 | 439.03 |
| P10 | Planta 1 | 34.22 | 21.85 | 21.85 | 57.76 | 57.76 | 21.70 | 23.14 | 66.77 | 15.49 | 80.90 | 124.53 |
| Total | | | | | | | 292.6 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3487.8 |

| Conjunto: V11 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S11 | Planta baja | 108.53 | 630.16 | 838.96 | 760.85 | 969.65 | 64.80 | 36.56 | 162.82 | 52.33 | 797.41 | 1132.47 |
| C11 | Planta baja | 75.30 | 342.35 | 452.91 | 430.18 | 540.74 | 69.55 | 65.18 | 202.28 | 76.92 | 495.36 | 743.02 |
| E11 | Planta baja | 22.86 | 31.28 | 31.28 | 55.76 | 55.76 | 28.10 | 26.34 | 81.74 | 13.21 | 82.10 | 137.50 |
| D29 | Planta 1 | 143.38 | 175.09 | 209.89 | 328.03 | 362.83 | 37.72 | 70.71 | 145.08 | 36.35 | 398.74 | 507.91 |
| D45 | Planta 1 | 113.19 | 148.25 | 183.05 | 269.28 | 304.08 | 36.00 | 76.77 | 149.16 | 41.16 | 346.06 | 453.24 |
| D53 | Planta 1 | 103.66 | 145.59 | 180.39 | 256.72 | 291.52 | 36.00 | 76.77 | 149.16 | 41.31 | 333.50 | 440.68 |
| P11 | Planta 1 | 33.96 | 21.69 | 21.69 | 57.31 | 57.31 | 21.53 | 22.96 | 66.26 | 15.49 | 80.27 | 123.57 |
| Total | | | | | | | 293.7 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3493.7 |

| Conjunto: V12 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S12 | Planta baja | 110.17 | 630.64 | 839.44 | 763.03 | 971.83 | 64.80 | 36.56 | 162.82 | 52.35 | 799.59 | 1134.65 |
| C12 | Planta baja | 75.22 | 341.64 | 452.10 | 429.36 | 539.82 | 69.37 | 65.01 | 201.75 | 76.97 | 494.37 | 741.57 |
| E12 | Planta baja | 22.81 | 31.19 | 31.19 | 55.62 | 55.62 | 28.02 | 26.26 | 81.50 | 13.21 | 81.89 | 137.13 |
| D30 | Planta 1 | 140.01 | 170.77 | 205.57 | 320.10 | 354.90 | 37.61 | 80.20 | 155.83 | 36.67 | 400.31 | 510.73 |
| D46 | Planta 1 | 114.03 | 148.67 | 183.47 | 270.58 | 305.38 | 36.00 | 76.77 | 149.16 | 41.07 | 347.35 | 454.54 |
| D54 | Planta 1 | 101.82 | 145.17 | 179.97 | 254.40 | 289.20 | 36.00 | 76.77 | 149.16 | 41.30 | 331.17 | 438.36 |
| P12 | Planta 1 | 34.13 | 21.80 | 21.80 | 57.62 | 57.62 | 21.65 | 23.08 | 66.61 | 15.49 | 80.70 | 124.23 |
| Total | | | | | | | 293.4 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3494.0 |

| Conjunto: V13 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S13 | Planta baja | 108.62 | 630.43 | 839.23 | 761.23 | 970.03 | 64.80 | 36.56 | 162.82 | 52.30 | 797.79 | 1132.84 |
| C13 | Planta baja | 76.84 | 355.53 | 467.95 | 445.34 | 557.77 | 72.90 | 68.32 | 212.04 | 76.03 | 513.67 | 769.80 |
| E13 | Planta baja | 23.17 | 32.44 | 32.44 | 57.28 | 57.28 | 29.14 | 27.31 | 84.76 | 13.16 | 84.59 | 142.03 |
| D39 | Planta 1 | 146.59 | 179.09 | 213.89 | 335.45 | 370.25 | 39.07 | 73.23 | 150.26 | 35.97 | 408.69 | 520.51 |
| D47 | Planta 1 | 113.41 | 148.67 | 183.47 | 269.95 | 304.75 | 36.00 | 76.77 | 149.16 | 41.02 | 346.72 | 453.91 |
| D55 | Planta 1 | 103.43 | 145.17 | 179.97 | 256.06 | 290.86 | 36.00 | 76.77 | 149.16 | 41.46 | 332.83 | 440.01 |
| P13 | Planta 1 | 35.24 | 22.62 | 22.62 | 59.59 | 59.59 | 22.46 | 23.95 | 69.11 | 15.47 | 83.54 | 128.70 |
| Total | | | | | | | 300.4 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3542.6 |

| Conjunto: V14 | | | | | | | | | | | | |
|---------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S14 | Planta baja | 110.17 | 630.64 | 839.44 | 763.04 | 971.84 | 64.80 | 36.56 | 162.82 | 52.35 | 799.60 | 1134.65 |
| C14 | Planta baja | 76.97 | 357.97 | 470.74 | 447.99 | 560.76 | 73.52 | 68.90 | 213.84 | 75.85 | 516.90 | 774.60 |
| E14 | Planta baja | 23.15 | 32.22 | 32.22 | 57.03 | 57.03 | 28.95 | 27.13 | 84.19 | 13.17 | 84.16 | 141.22 |
| D40 | Planta 1 | 143.10 | 174.95 | 209.75 | 327.59 | 362.39 | 39.07 | 83.32 | 161.89 | 36.23 | 410.91 | 524.28 |
| D48 | Planta 1 | 114.03 | 148.67 | 183.47 | 270.58 | 305.38 | 36.00 | 76.77 | 149.16 | 41.07 | 347.35 | 454.54 |
| D56 | Planta 1 | 101.82 | 145.17 | 179.97 | 254.40 | 289.20 | 36.00 | 76.77 | 149.16 | 41.30 | 331.17 | 438.36 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

| Conjunto: V14 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| P14 | Planta 1 | 35.24 | 22.62 | 22.62 | 59.59 | 59.59 | 22.46 | 23.95 | 69.10 | 15.47 | 83.54 | 128.69 |
| Total | | | | | | | 300.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3548.3 |

| Conjunto: V15 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S15 | Planta baja | 108.68 | 630.64 | 839.44 | 761.50 | 970.30 | 64.80 | 36.56 | 162.82 | 52.28 | 798.06 | 1133.12 |
| C15 | Planta baja | 75.26 | 342.40 | 452.96 | 430.18 | 540.75 | 69.56 | 65.19 | 202.31 | 76.91 | 495.37 | 743.06 |
| E15 | Planta baja | 22.80 | 31.01 | 31.01 | 55.42 | 55.42 | 27.86 | 26.11 | 81.03 | 13.22 | 81.53 | 136.45 |
| D41 | Planta 1 | 143.22 | 174.76 | 209.56 | 327.52 | 362.32 | 37.61 | 70.50 | 144.65 | 36.39 | 398.02 | 506.97 |
| D49 | Planta 1 | 113.41 | 148.67 | 183.47 | 269.95 | 304.75 | 36.00 | 76.77 | 149.16 | 41.02 | 346.72 | 453.91 |
| D57 | Planta 1 | 103.43 | 145.17 | 179.97 | 256.06 | 290.86 | 36.00 | 76.77 | 149.16 | 41.46 | 332.83 | 440.01 |
| P15 | Planta 1 | 33.02 | 21.09 | 21.09 | 55.73 | 55.73 | 20.94 | 22.33 | 64.44 | 15.49 | 78.06 | 120.18 |
| Total | | | | | | | 292.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3489.1 |

| Conjunto: V16 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S16 | Planta baja | 148.70 | 625.65 | 834.45 | 797.57 | 1006.37 | 64.80 | 36.56 | 162.82 | 54.88 | 834.13 | 1169.19 |
| C16 | Planta baja | 75.30 | 342.33 | 452.88 | 430.16 | 540.72 | 69.54 | 65.17 | 202.26 | 76.92 | 495.33 | 742.98 |
| E16 | Planta baja | 22.86 | 31.27 | 31.27 | 55.75 | 55.75 | 28.09 | 26.33 | 81.70 | 13.21 | 82.08 | 137.46 |
| D42 | Planta 1 | 140.23 | 170.82 | 205.62 | 320.38 | 355.18 | 37.63 | 80.24 | 155.90 | 36.67 | 400.62 | 511.07 |
| D50 | Planta 1 | 133.22 | 147.23 | 182.03 | 288.86 | 323.66 | 36.00 | 76.77 | 149.16 | 43.46 | 365.63 | 472.82 |
| D58 | Planta 1 | 121.53 | 144.31 | 179.11 | 273.81 | 308.61 | 36.00 | 76.77 | 149.16 | 43.59 | 350.58 | 457.77 |
| P16 | Planta 1 | 32.97 | 21.05 | 21.05 | 55.64 | 55.64 | 20.90 | 22.29 | 64.32 | 15.49 | 77.93 | 119.97 |
| Total | | | | | | | 293.0 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3565.7 |

| Conjunto: V2 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S2 | Planta baja | 118.40 | 630.70 | 839.50 | 771.58 | 980.38 | 64.80 | 36.56 | 162.82 | 52.73 | 808.14 | 1143.20 |
| C2 | Planta baja | 59.42 | 328.14 | 438.27 | 399.19 | 509.32 | 68.78 | 73.33 | 211.63 | 75.47 | 472.53 | 720.95 |
| E2 | Planta baja | 23.32 | 31.05 | 31.05 | 56.00 | 56.00 | 27.90 | 26.14 | 81.13 | 13.27 | 82.15 | 137.14 |
| D12 | Planta 1 | 125.18 | 170.32 | 205.12 | 304.36 | 339.16 | 37.45 | 79.87 | 155.18 | 35.64 | 384.23 | 494.34 |
| D22 | Planta 1 | 101.39 | 148.25 | 183.05 | 257.13 | 291.93 | 36.00 | 76.77 | 149.16 | 40.05 | 333.90 | 441.09 |
| D32 | Planta 1 | 114.66 | 145.59 | 180.39 | 268.06 | 302.86 | 36.00 | 76.77 | 149.16 | 42.37 | 344.83 | 452.02 |
| P2 | Planta 1 | 34.22 | 21.85 | 21.85 | 57.76 | 57.76 | 21.70 | 23.14 | 66.77 | 15.49 | 80.90 | 124.53 |
| Total | | | | | | | 292.6 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3469.4 |

| Conjunto: V3 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S3 | Planta baja | 116.74 | 630.16 | 838.96 | 769.30 | 978.10 | 64.80 | 36.56 | 162.82 | 52.73 | 805.86 | 1140.92 |
| C3 | Planta baja | 59.40 | 331.04 | 441.60 | 402.15 | 512.71 | 69.55 | 74.16 | 214.00 | 75.23 | 476.31 | 726.71 |
| E3 | Planta baja | 23.44 | 31.28 | 31.28 | 56.36 | 56.36 | 28.10 | 26.34 | 81.74 | 13.27 | 82.70 | 138.10 |
| D13 | Planta 1 | 120.61 | 171.09 | 205.89 | 300.45 | 335.25 | 37.72 | 80.45 | 156.30 | 35.18 | 380.90 | 491.55 |
| D23 | Planta 1 | 100.82 | 148.25 | 183.05 | 256.54 | 291.34 | 36.00 | 76.77 | 149.16 | 40.00 | 333.32 | 440.50 |
| D33 | Planta 1 | 116.00 | 145.59 | 180.39 | 269.44 | 304.24 | 36.00 | 76.77 | 149.16 | 42.50 | 346.21 | 453.39 |
| P3 | Planta 1 | 33.96 | 21.69 | 21.69 | 57.31 | 57.31 | 21.53 | 22.96 | 66.26 | 15.49 | 80.27 | 123.57 |
| Total | | | | | | | 293.7 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3474.4 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

| Conjunto: V4 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S4 | Planta baja | 118.62 | 630.64 | 839.44 | 771.74 | 980.54 | 64.80 | 36.56 | 162.82 | 52.75 | 808.30 | 1143.35 |
| C4 | Planta baja | 59.42 | 330.36 | 440.82 | 401.48 | 511.94 | 69.37 | 73.96 | 213.44 | 75.29 | 475.44 | 725.38 |
| E4 | Planta baja | 23.32 | 31.19 | 31.19 | 56.15 | 56.15 | 28.02 | 26.26 | 81.51 | 13.26 | 82.41 | 137.66 |
| D14 | Planta 1 | 125.39 | 170.77 | 205.57 | 305.04 | 339.84 | 37.61 | 80.20 | 155.83 | 35.58 | 385.24 | 495.66 |
| D24 | Planta 1 | 101.62 | 148.67 | 183.47 | 257.80 | 292.60 | 36.00 | 76.77 | 149.16 | 39.92 | 334.57 | 441.76 |
| D34 | Planta 1 | 114.46 | 145.17 | 179.97 | 267.42 | 302.22 | 36.00 | 76.77 | 149.16 | 42.53 | 344.19 | 451.38 |
| P4 | Planta 1 | 34.13 | 21.80 | 21.80 | 57.62 | 57.62 | 21.65 | 23.08 | 66.61 | 15.49 | 80.70 | 124.23 |
| Total | | | | | | | 293.4 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3475.3 |

| Conjunto: V5 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S5 | Planta baja | 116.82 | 630.43 | 839.23 | 769.67 | 978.47 | 64.80 | 36.56 | 162.82 | 52.69 | 806.23 | 1141.28 |
| C5 | Planta baja | 59.72 | 343.69 | 456.11 | 415.51 | 527.93 | 72.90 | 77.73 | 224.33 | 74.29 | 493.25 | 752.26 |
| E5 | Planta baja | 23.73 | 32.44 | 32.44 | 57.85 | 57.85 | 29.14 | 27.31 | 84.76 | 13.21 | 85.16 | 142.60 |
| D15 | Planta 1 | 122.83 | 174.95 | 209.75 | 306.71 | 341.51 | 39.07 | 83.32 | 161.89 | 34.79 | 390.03 | 503.40 |
| D25 | Planta 1 | 101.04 | 148.67 | 183.47 | 257.20 | 292.00 | 36.00 | 76.77 | 149.16 | 39.86 | 333.97 | 441.16 |
| D35 | Planta 1 | 115.80 | 145.17 | 179.97 | 268.80 | 303.60 | 36.00 | 76.77 | 149.16 | 42.66 | 345.57 | 452.76 |
| P5 | Planta 1 | 35.24 | 22.62 | 22.62 | 59.60 | 59.60 | 22.46 | 23.95 | 69.10 | 15.47 | 83.54 | 128.70 |
| Total | | | | | | | 300.4 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3521.8 |

| Conjunto: V6 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S6 | Planta baja | 118.66 | 630.64 | 839.44 | 771.77 | 980.57 | 64.80 | 36.56 | 162.82 | 52.75 | 808.33 | 1143.39 |
| C6 | Planta baja | 59.89 | 346.03 | 458.79 | 418.09 | 530.86 | 73.52 | 78.40 | 226.24 | 74.14 | 496.49 | 757.09 |
| E6 | Planta baja | 23.66 | 32.22 | 32.22 | 57.56 | 57.56 | 28.95 | 27.13 | 84.19 | 13.22 | 84.69 | 141.75 |
| D16 | Planta 1 | 127.78 | 174.95 | 209.75 | 311.82 | 346.62 | 39.07 | 83.32 | 161.89 | 35.14 | 395.14 | 508.51 |
| D26 | Planta 1 | 101.69 | 148.67 | 183.47 | 257.87 | 292.67 | 36.00 | 76.77 | 149.16 | 39.92 | 334.64 | 441.83 |
| D36 | Planta 1 | 114.46 | 145.17 | 179.97 | 267.42 | 302.22 | 36.00 | 76.77 | 149.16 | 42.53 | 344.19 | 451.38 |
| P6 | Planta 1 | 35.24 | 22.62 | 22.62 | 59.60 | 59.60 | 22.46 | 23.95 | 69.10 | 15.47 | 83.54 | 128.70 |
| Total | | | | | | | 300.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3528.6 |

| Conjunto: V7 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S7 | Planta baja | 116.80 | 630.64 | 839.44 | 769.86 | 978.66 | 64.80 | 36.56 | 162.82 | 52.66 | 806.42 | 1141.48 |
| C7 | Planta baja | 59.71 | 331.08 | 441.65 | 402.52 | 513.08 | 69.56 | 74.17 | 214.03 | 75.26 | 476.69 | 727.12 |
| E7 | Planta baja | 23.32 | 31.01 | 31.01 | 55.96 | 55.96 | 27.86 | 26.11 | 81.03 | 13.28 | 82.07 | 136.99 |
| D17 | Planta 1 | 120.63 | 170.78 | 205.58 | 300.15 | 334.95 | 37.61 | 80.21 | 155.84 | 35.23 | 380.36 | 490.79 |
| D27 | Planta 1 | 101.08 | 148.67 | 183.47 | 257.24 | 292.04 | 36.00 | 76.77 | 149.16 | 39.87 | 334.01 | 441.20 |
| D37 | Planta 1 | 115.76 | 145.17 | 179.97 | 268.76 | 303.56 | 36.00 | 76.77 | 149.16 | 42.66 | 345.53 | 452.72 |
| P7 | Planta 1 | 33.02 | 21.09 | 21.09 | 55.73 | 55.73 | 20.94 | 22.33 | 64.44 | 15.49 | 78.06 | 120.18 |
| Total | | | | | | | 292.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3470.2 |

| Conjunto: V8 | | | | | | | | | | | | |
|--------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S8 | Planta baja | 155.47 | 625.65 | 834.45 | 804.55 | 1013.35 | 64.80 | 36.56 | 162.82 | 55.21 | 841.11 | 1176.17 |
| C8 | Planta baja | 59.65 | 331.02 | 441.57 | 402.39 | 512.94 | 69.54 | 74.15 | 213.98 | 75.26 | 476.54 | 726.92 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

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| Conjunto: V8 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| E8 | Planta baja | 23.45 | 31.27 | 31.27 | 56.36 | 56.36 | 28.09 | 26.33 | 81.70 | 13.27 | 82.68 | 138.06 |
| D18 | Planta 1 | 125.68 | 170.81 | 205.61 | 305.39 | 340.19 | 37.63 | 80.24 | 155.89 | 35.60 | 385.63 | 496.08 |
| D28 | Planta 1 | 122.03 | 147.23 | 182.03 | 277.33 | 312.13 | 36.00 | 76.77 | 149.16 | 42.40 | 354.10 | 461.29 |
| D38 | Planta 1 | 132.77 | 144.31 | 179.11 | 285.40 | 320.20 | 36.00 | 76.77 | 149.16 | 44.69 | 362.17 | 469.36 |
| P8 | Planta 1 | 32.97 | 21.05 | 21.05 | 55.65 | 55.65 | 20.91 | 22.29 | 64.33 | 15.49 | 77.94 | 119.97 |
| Total | | | | | | | 293.0 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3548.3 |

| Conjunto: V9 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S9 | Planta baja | 174.73 | 626.09 | 834.89 | 824.85 | 1033.65 | 64.80 | 36.56 | 162.82 | 56.08 | 861.41 | 1196.47 |
| C9 | Planta baja | 75.17 | 341.11 | 451.49 | 428.77 | 539.15 | 69.23 | 64.88 | 201.36 | 77.01 | 493.65 | 740.51 |
| E9 | Planta baja | 22.91 | 31.48 | 31.48 | 56.02 | 56.02 | 28.29 | 26.51 | 82.27 | 13.20 | 82.53 | 138.29 |
| D19 | Planta 1 | 143.49 | 175.02 | 209.82 | 328.06 | 362.86 | 37.70 | 70.66 | 144.98 | 36.37 | 398.73 | 507.85 |
| D43 | Planta 1 | 132.87 | 167.00 | 236.60 | 308.87 | 378.47 | 36.00 | 20.31 | 90.45 | 43.13 | 329.18 | 468.93 |
| D51 | Planta 1 | 125.59 | 165.33 | 234.93 | 299.65 | 369.25 | 36.00 | 20.31 | 90.45 | 43.65 | 319.96 | 459.70 |
| P9 | Planta 1 | 34.31 | 21.92 | 21.92 | 57.92 | 57.92 | 21.76 | 23.21 | 66.97 | 15.49 | 81.12 | 124.89 |
| Total | | | | | | | 293.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3545.6 |

Calefacción

| Conjunto: V1 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S1 | Planta baja | 971.15 | 64.80 | 447.94 | 66.51 | 1419.09 |
| C1 | Planta baja | 382.40 | 69.23 | 239.28 | 64.66 | 621.68 |
| A1 | Planta baja | 146.74 | 54.00 | 186.64 | 123.64 | 333.38 |
| E1 | Planta baja | 229.22 | 28.29 | 97.77 | 31.21 | 326.99 |
| D11 | Planta 1 | 588.68 | 37.70 | 260.60 | 60.83 | 849.28 |
| D21 | Planta 1 | 535.79 | 36.00 | 248.85 | 72.17 | 784.64 |
| D31 | Planta 1 | 494.26 | 36.00 | 248.85 | 70.57 | 743.11 |
| B1 | Planta 1 | 345.50 | 54.00 | 186.64 | 95.94 | 532.14 |
| P1 | Planta 1 | 130.03 | 21.77 | 75.23 | 25.46 | 205.26 |
| Total | | | 401.8 | | | |
| Carga total simultánea | | | | | | 5815.6 |

| Conjunto: V10 | | | | | | |
|---------------|-------------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S10 | Planta baja | 847.82 | 64.80 | 447.94 | 59.77 | 1295.76 |
| C10 | Planta baja | 339.04 | 68.78 | 237.72 | 60.38 | 576.76 |
| A10 | Planta baja | 133.88 | 54.00 | 186.64 | 119.92 | 320.52 |
| E10 | Planta baja | 235.68 | 27.89 | 96.41 | 32.14 | 332.09 |
| D20 | Planta 1 | 535.34 | 37.45 | 258.89 | 57.26 | 794.23 |
| D44 | Planta 1 | 423.60 | 36.00 | 248.85 | 61.06 | 672.45 |
| D52 | Planta 1 | 477.26 | 36.00 | 248.85 | 68.07 | 726.11 |
| B10 | Planta 1 | 396.85 | 54.00 | 186.64 | 105.24 | 583.49 |

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| Conjunto: V10 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| P10 | Planta 1 | 129.76 | 21.70 | 75.00 | 25.48 | 204.76 |
| Total | | | 400.6 | | | |
| Carga total simultánea | | | | | | 5506.2 |

| Conjunto: V11 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S11 | Planta baja | 846.61 | 64.80 | 447.94 | 59.83 | 1294.55 |
| C11 | Planta baja | 340.86 | 69.55 | 240.38 | 60.17 | 581.24 |
| A11 | Planta baja | 133.04 | 54.00 | 186.64 | 121.35 | 319.69 |
| E11 | Planta baja | 236.83 | 28.10 | 97.13 | 32.09 | 333.96 |
| D29 | Planta 1 | 537.21 | 37.72 | 260.78 | 57.11 | 797.99 |
| D45 | Planta 1 | 423.60 | 36.00 | 248.85 | 61.06 | 672.45 |
| D53 | Planta 1 | 477.26 | 36.00 | 248.85 | 68.07 | 726.11 |
| B11 | Planta 1 | 396.98 | 54.00 | 186.64 | 104.89 | 583.62 |
| P11 | Planta 1 | 128.72 | 21.53 | 74.43 | 25.47 | 203.15 |
| Total | | | 401.7 | | | |
| Carga total simultánea | | | | | | 5512.8 |

| Conjunto: V12 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S12 | Planta baja | 847.67 | 64.80 | 447.94 | 59.78 | 1295.61 |
| C12 | Planta baja | 340.41 | 69.37 | 239.76 | 60.22 | 580.16 |
| A12 | Planta baja | 133.45 | 54.00 | 186.64 | 120.69 | 320.09 |
| E12 | Planta baja | 236.02 | 28.02 | 96.86 | 32.07 | 332.87 |
| D30 | Planta 1 | 536.53 | 37.61 | 259.98 | 57.18 | 796.51 |
| D46 | Planta 1 | 424.50 | 36.00 | 248.85 | 60.84 | 673.35 |
| D54 | Planta 1 | 476.36 | 36.00 | 248.85 | 68.33 | 725.22 |
| B12 | Planta 1 | 396.98 | 54.00 | 186.64 | 104.89 | 583.62 |
| P12 | Planta 1 | 129.40 | 21.65 | 74.82 | 25.47 | 204.22 |
| Total | | | 401.4 | | | |
| Carga total simultánea | | | | | | 5511.7 |

| Conjunto: V13 | | | | | | |
|---------------|-------------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S13 | Planta baja | 847.21 | 64.80 | 447.94 | 59.80 | 1295.15 |
| C13 | Planta baja | 348.87 | 72.90 | 251.98 | 59.34 | 600.84 |
| A13 | Planta baja | 133.46 | 54.00 | 186.64 | 120.69 | 320.10 |
| E13 | Planta baja | 242.02 | 29.14 | 100.72 | 31.75 | 342.74 |
| D39 | Planta 1 | 548.27 | 39.07 | 270.09 | 56.55 | 818.36 |
| D47 | Planta 1 | 424.50 | 36.00 | 248.85 | 60.84 | 673.35 |

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16 VIVIENDAS UNIFAMILIARES

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| Conjunto: V13 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D55 | Planta 1 | 476.36 | 36.00 | 248.85 | 68.33 | 725.22 |
| B13 | Planta 1 | 405.10 | 54.00 | 186.64 | 103.43 | 591.74 |
| P13 | Planta 1 | 132.78 | 22.46 | 77.62 | 25.30 | 210.41 |
| Total | | | 408.4 | | | |
| Carga total simultánea | | | | | | 5577.9 |

| Conjunto: V14 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S14 | Planta baja | 847.67 | 64.80 | 447.94 | 59.78 | 1295.61 |
| C14 | Planta baja | 349.84 | 73.52 | 254.12 | 59.14 | 603.96 |
| A14 | Planta baja | 132.82 | 54.00 | 186.64 | 121.91 | 319.46 |
| E14 | Planta baja | 241.30 | 28.95 | 100.05 | 31.84 | 341.35 |
| D40 | Planta 1 | 548.27 | 39.07 | 270.09 | 56.55 | 818.36 |
| D48 | Planta 1 | 424.50 | 36.00 | 248.85 | 60.84 | 673.35 |
| D56 | Planta 1 | 476.36 | 36.00 | 248.85 | 68.33 | 725.22 |
| B14 | Planta 1 | 405.10 | 54.00 | 186.64 | 103.42 | 591.74 |
| P14 | Planta 1 | 132.78 | 22.46 | 77.62 | 25.30 | 210.40 |
| Total | | | 408.8 | | | |
| Carga total simultánea | | | | | | 5579.5 |

| Conjunto: V15 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S15 | Planta baja | 847.67 | 64.80 | 447.94 | 59.78 | 1295.61 |
| C15 | Planta baja | 340.71 | 69.56 | 240.42 | 60.15 | 581.13 |
| A15 | Planta baja | 133.22 | 54.00 | 186.64 | 121.19 | 319.86 |
| E15 | Planta baja | 235.70 | 27.86 | 96.29 | 32.17 | 331.99 |
| D41 | Planta 1 | 536.52 | 37.61 | 260.01 | 57.18 | 796.53 |
| D49 | Planta 1 | 424.50 | 36.00 | 248.85 | 60.84 | 673.35 |
| D57 | Planta 1 | 476.36 | 36.00 | 248.85 | 68.33 | 725.22 |
| B15 | Planta 1 | 400.78 | 54.00 | 186.64 | 100.54 | 587.42 |
| P15 | Planta 1 | 125.15 | 20.94 | 72.38 | 25.47 | 197.53 |
| Total | | | 400.8 | | | |
| Carga total simultánea | | | | | | 5508.6 |

| Conjunto: V16 | | | | | | |
|---------------|-------------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S16 | Planta baja | 976.65 | 64.80 | 447.94 | 66.87 | 1424.58 |
| C16 | Planta baja | 340.84 | 69.54 | 240.36 | 60.17 | 581.20 |
| A16 | Planta baja | 133.15 | 54.00 | 186.64 | 120.54 | 319.79 |
| E16 | Planta baja | 236.94 | 28.09 | 97.09 | 32.11 | 334.03 |

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| Conjunto: V16 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D42 | Planta 1 | 536.57 | 37.63 | 260.10 | 57.17 | 796.67 |
| D50 | Planta 1 | 488.09 | 36.00 | 248.85 | 67.74 | 736.94 |
| D58 | Planta 1 | 539.24 | 36.00 | 248.85 | 75.04 | 788.10 |
| B16 | Planta 1 | 400.29 | 54.00 | 186.64 | 100.64 | 586.93 |
| P16 | Planta 1 | 125.00 | 20.90 | 72.25 | 25.48 | 197.25 |
| Total | | | 401.0 | | | |
| Carga total simultánea | | | | | | 5765.5 |

| Conjunto: V2 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S2 | Planta baja | 839.08 | 64.80 | 447.94 | 59.37 | 1287.02 |
| C2 | Planta baja | 381.19 | 68.78 | 237.71 | 64.79 | 618.90 |
| A2 | Planta baja | 146.23 | 54.00 | 186.64 | 124.53 | 332.87 |
| E2 | Planta baja | 227.27 | 27.90 | 96.41 | 31.33 | 323.68 |
| D12 | Planta 1 | 586.47 | 37.45 | 258.89 | 60.94 | 845.37 |
| D22 | Planta 1 | 471.38 | 36.00 | 248.85 | 65.40 | 720.23 |
| D32 | Planta 1 | 431.00 | 36.00 | 248.85 | 63.73 | 679.85 |
| B2 | Planta 1 | 345.53 | 54.00 | 186.64 | 95.98 | 532.17 |
| P2 | Planta 1 | 129.77 | 21.70 | 75.00 | 25.48 | 204.77 |
| Total | | | 400.6 | | | |
| Carga total simultánea | | | | | | 5544.9 |

| Conjunto: V3 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S3 | Planta baja | 840.52 | 64.80 | 447.94 | 59.54 | 1288.46 |
| C3 | Planta baja | 383.23 | 69.55 | 240.38 | 64.56 | 623.60 |
| A3 | Planta baja | 145.27 | 54.00 | 186.64 | 125.99 | 331.91 |
| E3 | Planta baja | 228.30 | 28.10 | 97.13 | 31.27 | 325.43 |
| D13 | Planta 1 | 588.45 | 37.72 | 260.77 | 60.78 | 849.22 |
| D23 | Planta 1 | 471.38 | 36.00 | 248.85 | 65.40 | 720.23 |
| D33 | Planta 1 | 431.00 | 36.00 | 248.85 | 63.73 | 679.85 |
| B3 | Planta 1 | 345.66 | 54.00 | 186.64 | 95.67 | 532.30 |
| P3 | Planta 1 | 128.72 | 21.53 | 74.43 | 25.47 | 203.15 |
| Total | | | 401.7 | | | |
| Carga total simultánea | | | | | | 5554.2 |

| Conjunto: V4 | | | | | | |
|--------------|-------------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S4 | Planta baja | 838.95 | 64.80 | 447.94 | 59.37 | 1286.88 |
| C4 | Planta baja | 382.71 | 69.37 | 239.75 | 64.61 | 622.46 |

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| Conjunto: V4 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| A4 | Planta baja | 145.73 | 54.00 | 186.64 | 125.32 | 332.37 |
| E4 | Planta baja | 227.59 | 28.02 | 96.86 | 31.26 | 324.45 |
| D14 | Planta 1 | 587.77 | 37.61 | 259.98 | 60.86 | 847.75 |
| D24 | Planta 1 | 472.29 | 36.00 | 248.85 | 65.16 | 721.15 |
| D34 | Planta 1 | 430.08 | 36.00 | 248.85 | 63.97 | 678.94 |
| B4 | Planta 1 | 345.66 | 54.00 | 186.64 | 95.67 | 532.30 |
| P4 | Planta 1 | 129.40 | 21.65 | 74.82 | 25.47 | 204.22 |
| Total | | | 401.4 | | | |
| Carga total simultánea | | | | | | 5550.5 |

| Conjunto: V5 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S5 | Planta baja | 841.08 | 64.80 | 447.94 | 59.51 | 1289.02 |
| C5 | Planta baja | 392.27 | 72.90 | 251.98 | 63.63 | 644.24 |
| A5 | Planta baja | 145.74 | 54.00 | 186.64 | 125.32 | 332.38 |
| E5 | Planta baja | 233.55 | 29.14 | 100.72 | 30.97 | 334.28 |
| D15 | Planta 1 | 600.59 | 39.07 | 270.09 | 60.17 | 870.68 |
| D25 | Planta 1 | 472.29 | 36.00 | 248.85 | 65.16 | 721.15 |
| D35 | Planta 1 | 430.08 | 36.00 | 248.85 | 63.97 | 678.94 |
| B5 | Planta 1 | 352.68 | 54.00 | 186.64 | 94.26 | 539.32 |
| P5 | Planta 1 | 132.81 | 22.46 | 77.62 | 25.30 | 210.43 |
| Total | | | 408.4 | | | |
| Carga total simultánea | | | | | | 5620.4 |

| Conjunto: V6 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S6 | Planta baja | 838.95 | 64.80 | 447.94 | 59.37 | 1286.88 |
| C6 | Planta baja | 393.34 | 73.52 | 254.12 | 63.40 | 647.46 |
| A6 | Planta baja | 145.01 | 54.00 | 186.64 | 126.56 | 331.65 |
| E6 | Planta baja | 232.87 | 28.95 | 100.05 | 31.05 | 332.92 |
| D16 | Planta 1 | 600.59 | 39.07 | 270.09 | 60.17 | 870.68 |
| D26 | Planta 1 | 472.29 | 36.00 | 248.85 | 65.16 | 721.15 |
| D36 | Planta 1 | 430.08 | 36.00 | 248.85 | 63.97 | 678.94 |
| B6 | Planta 1 | 352.68 | 54.00 | 186.64 | 94.26 | 539.32 |
| P6 | Planta 1 | 132.81 | 22.46 | 77.62 | 25.30 | 210.43 |
| Total | | | 408.8 | | | |
| Carga total simultánea | | | | | | 5619.4 |

| Conjunto: V7 | | | | | | |
|--------------|--------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

| Conjunto: V7 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S7 | Planta baja | 841.50 | 64.80 | 447.94 | 59.49 | 1289.44 |
| C7 | Planta baja | 383.03 | 69.56 | 240.41 | 64.53 | 623.45 |
| A7 | Planta baja | 145.47 | 54.00 | 186.64 | 125.83 | 332.11 |
| E7 | Planta baja | 227.28 | 27.86 | 96.29 | 31.36 | 323.57 |
| D17 | Planta 1 | 587.76 | 37.61 | 260.01 | 60.86 | 847.77 |
| D27 | Planta 1 | 472.29 | 36.00 | 248.85 | 65.16 | 721.15 |
| D37 | Planta 1 | 430.08 | 36.00 | 248.85 | 63.97 | 678.94 |
| B7 | Planta 1 | 349.44 | 54.00 | 186.64 | 91.76 | 536.08 |
| P7 | Planta 1 | 125.15 | 20.94 | 72.38 | 25.47 | 197.53 |
| Total | | | 400.8 | | | |
| Carga total simultánea | | | | | | 5550.0 |

| Conjunto: V8 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S8 | Planta baja | 967.93 | 64.80 | 447.94 | 66.46 | 1415.86 |
| C8 | Planta baja | 383.20 | 69.54 | 240.35 | 64.56 | 623.55 |
| A8 | Planta baja | 145.37 | 54.00 | 186.64 | 125.15 | 332.01 |
| E8 | Planta baja | 228.39 | 28.09 | 97.09 | 31.28 | 325.48 |
| D18 | Planta 1 | 587.80 | 37.63 | 260.09 | 60.84 | 847.89 |
| D28 | Planta 1 | 535.41 | 36.00 | 248.85 | 72.09 | 784.26 |
| D38 | Planta 1 | 493.36 | 36.00 | 248.85 | 70.67 | 742.21 |
| B8 | Planta 1 | 349.01 | 54.00 | 186.64 | 91.85 | 535.65 |
| P8 | Planta 1 | 125.00 | 20.91 | 72.26 | 25.48 | 197.26 |
| Total | | | 401.0 | | | |
| Carga total simultánea | | | | | | 5804.2 |

| Conjunto: V9 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| S9 | Planta baja | 977.20 | 64.80 | 447.94 | 66.80 | 1425.13 |
| C9 | Planta baja | 340.12 | 69.23 | 239.29 | 60.26 | 579.40 |
| A9 | Planta baja | 133.59 | 54.00 | 186.64 | 118.76 | 320.23 |
| E9 | Planta baja | 237.82 | 28.29 | 97.77 | 32.03 | 335.59 |
| D19 | Planta 1 | 537.34 | 37.70 | 260.61 | 57.15 | 797.95 |
| D43 | Planta 1 | 488.36 | 36.00 | 248.85 | 67.80 | 737.21 |
| D51 | Planta 1 | 540.18 | 36.00 | 248.85 | 74.93 | 789.03 |
| B9 | Planta 1 | 396.81 | 54.00 | 186.64 | 105.19 | 583.45 |
| P9 | Planta 1 | 130.03 | 21.76 | 75.22 | 25.46 | 205.25 |
| Total | | | 401.8 | | | |
| Carga total simultánea | | | | | | 5773.2 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

3.- RESUMEN DE LOS RESULTADOS PARA CONJUNTOS DE RECINTOS

| Refrigeración | | |
|---------------|---|--------------------|
| Conjunto | Potencia por superficie (W/m ²) | Potencia total (W) |
| V1 | 33.2 | 3524.1 |
| V10 | 32.9 | 3487.8 |
| V11 | 32.9 | 3493.7 |
| V12 | 32.9 | 3494.0 |
| V13 | 32.6 | 3542.6 |
| V14 | 32.6 | 3548.3 |
| V15 | 32.8 | 3489.1 |
| V16 | 33.7 | 3565.7 |
| V2 | 32.7 | 3469.4 |
| V3 | 32.7 | 3474.4 |
| V4 | 32.7 | 3475.3 |
| V5 | 32.4 | 3521.8 |
| V6 | 32.4 | 3528.6 |
| V7 | 32.6 | 3470.2 |
| V8 | 33.5 | 3548.3 |
| V9 | 33.4 | 3545.6 |

| Calefacción | | |
|-------------|---|--------------------|
| Conjunto | Potencia por superficie (W/m ²) | Potencia total (W) |
| V1 | 54.9 | 5815.6 |
| V10 | 51.9 | 5506.2 |
| V11 | 51.9 | 5512.8 |
| V12 | 51.9 | 5511.7 |
| V13 | 51.3 | 5577.9 |
| V14 | 51.3 | 5579.5 |
| V15 | 51.8 | 5508.6 |
| V16 | 54.5 | 5765.5 |
| V2 | 52.3 | 5544.9 |
| V3 | 52.2 | 5554.2 |
| V4 | 52.2 | 5550.5 |
| V5 | 51.7 | 5620.4 |
| V6 | 51.6 | 5619.4 |
| V7 | 52.2 | 5550.0 |
| V8 | 54.9 | 5804.2 |
| V9 | 54.5 | 5773.2 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS UNIFAMILIARES

Fecha: 08/05/13

SOLUCION (B) PLURIFAMILIAR

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Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

1.- PARÁMETROS GENERALES

Término municipal: Mancha Real

Latitud (grados): 37.8 grados

Altitud sobre el nivel del mar: 770 m

Percentil para verano: 5.0 %

Temperatura seca verano: 33.35 °C

Temperatura húmeda verano: 21.60 °C

Oscilación media diaria: 17.3 °C

Oscilación media anual: 40.1 °C

Percentil para invierno: 97.5 %

Temperatura seca en invierno: -4.30 °C

Humedad relativa en invierno: 90 %

Velocidad del viento: 5.4 m/s

Temperatura del terreno: 5.00 °C

Porcentaje de mayoración por la orientación N: 20 %

Porcentaje de mayoración por la orientación S: 0 %

Porcentaje de mayoración por la orientación E: 10 %

Porcentaje de mayoración por la orientación O: 10 %

Suplemento de intermitencia para calefacción: 5 %

Porcentaje de cargas debido a la propia instalación: 3 %

Porcentaje de mayoración de cargas (Invierno): 0 %

Porcentaje de mayoración de cargas (Verano): 0 %

2.- RESUMEN DE LOS RESULTADOS DE CÁLCULO DE LOS RECINTOS

Refrigeración

| Conjunto: VIVIENDA 1 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D11 | Planta baja | 124.57 | 172.64 | 207.44 | 306.13 | 340.93 | 38.27 | 81.60 | 158.54 | 35.24 | 387.73 | 499.47 |
| D12 | Planta baja | 106.84 | 165.18 | 234.78 | 280.18 | 349.78 | 36.00 | 20.31 | 90.45 | 41.92 | 300.49 | 440.24 |
| D13 | Planta baja | 61.64 | 167.02 | 236.62 | 235.52 | 305.12 | 36.00 | 20.31 | 90.45 | 36.37 | 255.83 | 395.57 |
| S1 | Planta baja | 223.98 | 617.13 | 721.53 | 866.34 | 970.74 | 64.80 | 121.46 | 249.20 | 52.93 | 987.79 | 1219.93 |
| C1 | Planta baja | 75.48 | 275.79 | 378.20 | 361.81 | 464.22 | 54.88 | 58.52 | 168.87 | 83.06 | 420.33 | 633.09 |
| P1 | Planta baja | 2.51 | 10.49 | 10.49 | 13.39 | 13.39 | 10.42 | 11.11 | 32.06 | 11.78 | 24.50 | 45.46 |
| V1 | Planta baja | 34.99 | 13.16 | 13.16 | 49.60 | 49.60 | 11.83 | 11.08 | 34.39 | 19.18 | 60.68 | 83.99 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3273.4 |

| Conjunto: VIVIENDA 2 | | | | | | | | | | | | |
|----------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D21 | Planta baja | 125.44 | 172.64 | 207.44 | 307.03 | 341.83 | 38.27 | 81.60 | 158.54 | 35.31 | 388.63 | 500.37 |
| D22 | Planta baja | 71.42 | 166.33 | 235.93 | 244.88 | 314.48 | 36.00 | 20.31 | 90.45 | 37.72 | 265.19 | 404.93 |
| D23 | Planta baja | 62.08 | 167.02 | 236.62 | 235.97 | 305.57 | 36.00 | 20.31 | 90.45 | 36.41 | 256.28 | 396.02 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| Conjunto: VIVIENDA 2 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| S2 | Planta baja | 223.87 | 617.13 | 721.53 | 866.22 | 970.62 | 64.80 | 121.46 | 249.20 | 52.92 | 987.68 | 1219.82 |
| C2 | Planta baja | 81.27 | 275.79 | 378.20 | 367.77 | 470.18 | 54.88 | 58.52 | 168.87 | 83.84 | 426.29 | 639.05 |
| P2 | Planta baja | 2.51 | 10.49 | 10.49 | 13.39 | 13.39 | 10.42 | 11.11 | 32.06 | 11.78 | 24.50 | 45.46 |
| V2 | Planta baja | 35.19 | 13.16 | 13.16 | 49.80 | 49.80 | 11.83 | 11.08 | 34.39 | 19.22 | 60.88 | 84.19 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3262.1 |

| Conjunto: VIVIENDA 3 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D31 | Planta baja | 124.57 | 172.64 | 207.44 | 306.13 | 340.93 | 38.27 | 81.60 | 158.54 | 35.24 | 387.73 | 499.48 |
| D32 | Planta baja | 71.42 | 166.33 | 235.93 | 244.88 | 314.48 | 36.00 | 20.31 | 90.45 | 37.72 | 265.19 | 404.93 |
| D33 | Planta baja | 61.33 | 167.02 | 236.62 | 235.20 | 304.80 | 36.00 | 20.31 | 90.45 | 36.34 | 255.52 | 395.26 |
| S3 | Planta baja | 223.96 | 617.13 | 721.53 | 866.32 | 970.72 | 64.80 | 121.46 | 249.20 | 52.93 | 987.77 | 1219.91 |
| C3 | Planta baja | 81.28 | 275.79 | 378.20 | 367.79 | 470.20 | 54.88 | 58.52 | 168.87 | 83.84 | 426.31 | 639.07 |
| P3 | Planta baja | 2.51 | 10.49 | 10.49 | 13.39 | 13.39 | 10.42 | 11.11 | 32.06 | 11.78 | 24.50 | 45.46 |
| V3 | Planta baja | 34.99 | 13.16 | 13.16 | 49.60 | 49.60 | 11.83 | 11.08 | 34.39 | 19.18 | 60.68 | 83.99 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3261.6 |

| Conjunto: VIVIENDA 4 | | | | | | | | | | | | |
|-------------------------------|-------------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D41 | Planta baja | 125.47 | 172.64 | 207.44 | 307.06 | 341.86 | 38.27 | 81.60 | 158.54 | 35.31 | 388.66 | 500.40 |
| D42 | Planta baja | 88.93 | 165.18 | 234.78 | 261.74 | 331.34 | 36.00 | 20.31 | 90.45 | 40.17 | 282.05 | 421.79 |
| D43 | Planta baja | 62.15 | 167.02 | 236.62 | 236.04 | 305.64 | 36.00 | 20.31 | 90.45 | 36.42 | 256.35 | 396.10 |
| S4 | Planta baja | 223.92 | 617.13 | 721.53 | 866.28 | 970.68 | 64.80 | 121.46 | 249.20 | 52.93 | 987.73 | 1219.87 |
| C4 | Planta baja | 81.30 | 275.79 | 378.20 | 367.80 | 470.21 | 54.88 | 58.52 | 168.87 | 83.84 | 426.32 | 639.08 |
| P4 | Planta baja | 2.51 | 10.49 | 10.49 | 13.39 | 13.39 | 10.42 | 11.11 | 32.06 | 11.78 | 24.50 | 45.46 |
| V4 | Planta baja | 35.19 | 13.16 | 13.16 | 49.80 | 49.80 | 11.83 | 11.08 | 34.39 | 19.22 | 60.88 | 84.20 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3280.0 |

| Conjunto: VIVIENDA 5 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D11 | Planta 1 | 152.94 | 172.64 | 207.44 | 335.35 | 370.15 | 38.27 | 81.60 | 158.54 | 37.30 | 416.95 | 528.69 |
| D12 | Planta 1 | 138.09 | 165.18 | 234.78 | 312.37 | 381.97 | 36.00 | 20.31 | 90.45 | 44.99 | 332.69 | 472.43 |
| D13 | Planta 1 | 94.34 | 167.02 | 236.62 | 269.20 | 338.80 | 36.00 | 20.31 | 90.45 | 39.47 | 289.51 | 429.26 |
| S1 | Planta 1 | 239.30 | 649.08 | 857.88 | 915.03 | 1123.83 | 64.80 | 36.56 | 162.82 | 55.82 | 951.59 | 1286.64 |
| C1 | Planta 1 | 86.46 | 275.79 | 378.20 | 373.12 | 475.53 | 54.88 | 58.52 | 168.87 | 84.54 | 431.64 | 644.40 |
| P1 | Planta 1 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V1 | Planta 1 | 38.54 | 13.16 | 13.16 | 53.25 | 53.25 | 11.83 | 11.08 | 34.39 | 20.01 | 64.33 | 87.64 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3422.8 |

| Conjunto: VIVIENDA 6 | | | | | | | | | | | | |
|----------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D21 | Planta 1 | 153.79 | 172.64 | 207.44 | 336.23 | 371.03 | 38.27 | 81.60 | 158.54 | 37.37 | 417.83 | 529.57 |
| D22 | Planta 1 | 104.07 | 166.33 | 235.93 | 278.51 | 348.11 | 36.00 | 20.31 | 90.45 | 40.86 | 298.82 | 438.56 |
| D23 | Planta 1 | 95.56 | 167.02 | 236.62 | 270.45 | 340.05 | 36.00 | 20.31 | 90.45 | 39.58 | 290.77 | 430.51 |
| S2 | Planta 1 | 238.36 | 649.08 | 857.88 | 914.06 | 1122.86 | 64.80 | 36.56 | 162.82 | 55.78 | 950.62 | 1285.68 |
| C2 | Planta 1 | 86.44 | 275.79 | 378.20 | 373.10 | 475.51 | 54.88 | 58.52 | 168.87 | 84.54 | 431.62 | 644.38 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| Conjunto: VIVIENDA 6 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| P2 | Planta 1 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V2 | Planta 1 | 39.00 | 13.16 | 13.16 | 53.72 | 53.72 | 11.83 | 11.08 | 34.39 | 20.12 | 64.81 | 88.12 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3406.7 |

| Conjunto: VIVIENDA 7 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D31 | Planta 1 | 152.92 | 172.64 | 207.44 | 335.33 | 370.13 | 38.27 | 81.60 | 158.54 | 37.30 | 416.93 | 528.67 |
| D32 | Planta 1 | 104.07 | 166.33 | 235.93 | 278.51 | 348.11 | 36.00 | 20.31 | 90.45 | 40.86 | 298.82 | 438.56 |
| D33 | Planta 1 | 94.36 | 167.02 | 236.62 | 269.22 | 338.82 | 36.00 | 20.31 | 90.45 | 39.47 | 289.53 | 429.27 |
| S3 | Planta 1 | 239.20 | 649.08 | 857.88 | 914.92 | 1123.72 | 64.80 | 36.56 | 162.82 | 55.82 | 951.48 | 1286.54 |
| C3 | Planta 1 | 86.46 | 275.79 | 378.20 | 373.12 | 475.53 | 54.88 | 58.52 | 168.87 | 84.54 | 431.64 | 644.40 |
| P3 | Planta 1 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V3 | Planta 1 | 38.55 | 13.16 | 13.16 | 53.26 | 53.26 | 11.83 | 11.08 | 34.39 | 20.01 | 64.34 | 87.65 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3406.3 |

| Conjunto: VIVIENDA 8 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D41 | Planta 1 | 154.28 | 174.24 | 209.04 | 338.38 | 373.18 | 38.83 | 82.80 | 160.86 | 37.14 | 421.17 | 534.04 |
| D42 | Planta 1 | 120.75 | 165.18 | 234.78 | 294.51 | 364.11 | 36.00 | 20.31 | 90.45 | 43.29 | 314.82 | 454.56 |
| D43 | Planta 1 | 95.56 | 167.02 | 236.62 | 270.45 | 340.05 | 36.00 | 20.31 | 90.45 | 39.58 | 290.77 | 430.51 |
| S4 | Planta 1 | 237.91 | 649.08 | 857.88 | 913.59 | 1122.39 | 64.80 | 36.56 | 162.82 | 55.76 | 950.15 | 1285.21 |
| C4 | Planta 1 | 86.47 | 275.79 | 378.20 | 373.13 | 475.54 | 54.88 | 58.52 | 168.87 | 84.54 | 431.65 | 644.41 |
| P4 | Planta 1 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V4 | Planta 1 | 38.99 | 13.16 | 13.16 | 53.71 | 53.71 | 11.83 | 11.08 | 34.39 | 20.12 | 64.79 | 88.11 |
| Total | | | | | | | 252.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3427.4 |

| Conjunto: VIVIENDA 10 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|---------------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D21 | Planta 2 | 153.79 | 172.64 | 207.44 | 336.23 | 371.03 | 38.27 | 81.60 | 158.54 | 37.37 | 417.83 | 529.57 |
| D22 | Planta 2 | 104.07 | 166.33 | 235.93 | 278.51 | 348.11 | 36.00 | 20.31 | 90.45 | 40.86 | 298.82 | 438.56 |
| D23 | Planta 2 | 95.73 | 167.02 | 236.62 | 270.64 | 340.24 | 36.00 | 20.31 | 90.45 | 39.60 | 290.95 | 430.69 |
| S2 | Planta 2 | 238.41 | 649.08 | 857.88 | 914.11 | 1122.91 | 64.80 | 36.56 | 162.82 | 55.78 | 950.67 | 1285.73 |
| C2 | Planta 2 | 86.44 | 275.79 | 378.20 | 373.10 | 475.51 | 54.88 | 58.52 | 168.87 | 84.54 | 431.62 | 644.38 |
| P2 | Planta 2 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V2 | Planta 2 | 39.04 | 13.16 | 13.16 | 53.77 | 53.77 | 11.83 | 11.08 | 34.39 | 20.13 | 64.85 | 88.16 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | | 3406.8 |

| Conjunto: VIVIENDA 11 | | | | | | | | | | | | |
|-----------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D31 | Planta 2 | 152.92 | 172.64 | 207.44 | 335.33 | 370.13 | 38.27 | 81.60 | 158.54 | 37.30 | 416.93 | 528.67 |
| D32 | Planta 2 | 104.07 | 166.33 | 235.93 | 278.51 | 348.11 | 36.00 | 20.31 | 90.45 | 40.86 | 298.82 | 438.56 |
| D33 | Planta 2 | 94.42 | 167.02 | 236.62 | 269.28 | 338.88 | 36.00 | 20.31 | 90.45 | 39.48 | 289.59 | 429.33 |
| S3 | Planta 2 | 239.36 | 649.08 | 857.88 | 915.09 | 1123.89 | 64.80 | 36.56 | 162.82 | 55.83 | 951.65 | 1286.70 |
| C3 | Planta 2 | 86.46 | 275.79 | 378.20 | 373.12 | 475.53 | 54.88 | 58.52 | 168.87 | 84.54 | 431.64 | 644.40 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

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| Conjunto: VIVIENDA 11 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| P3 | Planta 2 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V3 | Planta 2 | 38.60 | 13.16 | 13.16 | 53.32 | 53.32 | 11.83 | 11.08 | 34.39 | 20.03 | 64.40 | 87.71 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3406.3 | |

| Conjunto: VIVIENDA 12 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D41 | Planta 2 | 154.71 | 174.24 | 209.04 | 338.82 | 373.62 | 38.83 | 82.80 | 160.86 | 37.17 | 421.62 | 534.49 |
| D42 | Planta 2 | 120.75 | 165.18 | 234.78 | 294.51 | 364.11 | 36.00 | 20.31 | 90.45 | 43.29 | 314.82 | 454.56 |
| D43 | Planta 2 | 95.73 | 167.02 | 236.62 | 270.64 | 340.24 | 36.00 | 20.31 | 90.45 | 39.60 | 290.95 | 430.69 |
| S4 | Planta 2 | 237.91 | 649.08 | 857.88 | 913.59 | 1122.39 | 64.80 | 36.56 | 162.82 | 55.76 | 950.15 | 1285.21 |
| C4 | Planta 2 | 86.47 | 275.79 | 378.20 | 373.13 | 475.54 | 54.88 | 58.52 | 168.87 | 84.54 | 431.65 | 644.41 |
| P4 | Planta 2 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V4 | Planta 2 | 39.04 | 13.16 | 13.16 | 53.77 | 53.77 | 11.83 | 11.08 | 34.39 | 20.13 | 64.85 | 88.17 |
| Total | | | | | | | 252.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3427.9 | |

| Conjunto: VIVIENDA 9 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D11 | Planta 2 | 152.94 | 172.64 | 207.44 | 335.35 | 370.15 | 38.27 | 81.60 | 158.54 | 37.30 | 416.95 | 528.69 |
| D12 | Planta 2 | 138.09 | 165.18 | 234.78 | 312.37 | 381.97 | 36.00 | 20.31 | 90.45 | 44.99 | 332.69 | 472.43 |
| D13 | Planta 2 | 94.40 | 167.02 | 236.62 | 269.27 | 338.87 | 36.00 | 20.31 | 90.45 | 39.48 | 289.58 | 429.32 |
| S1 | Planta 2 | 239.30 | 649.08 | 857.88 | 915.03 | 1123.83 | 64.80 | 36.56 | 162.82 | 55.82 | 951.59 | 1286.64 |
| C1 | Planta 2 | 86.46 | 275.79 | 378.20 | 373.12 | 475.53 | 54.88 | 58.52 | 168.87 | 84.54 | 431.64 | 644.40 |
| P1 | Planta 2 | 5.13 | 10.49 | 10.49 | 16.09 | 16.09 | 10.42 | 11.11 | 32.06 | 12.48 | 27.20 | 48.16 |
| V1 | Planta 2 | 38.61 | 13.16 | 13.16 | 53.32 | 53.32 | 11.83 | 11.08 | 34.39 | 20.03 | 64.41 | 87.72 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3422.8 | |

| Conjunto: VIVIENDA 13 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D11 | Planta 3 | 173.52 | 172.64 | 207.44 | 356.55 | 391.35 | 38.27 | 81.60 | 158.54 | 38.80 | 438.15 | 549.89 |
| D12 | Planta 3 | 152.92 | 165.18 | 234.78 | 327.65 | 397.25 | 36.00 | 20.31 | 90.45 | 46.44 | 347.96 | 487.70 |
| D13 | Planta 3 | 111.18 | 167.02 | 236.62 | 286.54 | 356.14 | 36.00 | 20.31 | 90.45 | 41.07 | 306.86 | 446.60 |
| S1 | Planta 3 | 260.55 | 649.08 | 857.88 | 936.91 | 1145.71 | 64.80 | 36.56 | 162.82 | 56.77 | 973.47 | 1308.53 |
| C1 | Planta 3 | 101.28 | 275.79 | 378.20 | 388.39 | 490.80 | 54.88 | 58.52 | 168.87 | 86.54 | 446.90 | 659.67 |
| P1 | Planta 3 | 12.58 | 10.49 | 10.49 | 23.77 | 23.77 | 10.42 | 11.11 | 32.06 | 14.47 | 34.88 | 55.84 |
| V1 | Planta 3 | 49.52 | 13.16 | 13.16 | 64.56 | 64.56 | 11.83 | 11.08 | 34.39 | 22.59 | 75.64 | 98.96 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3554.4 | |

| Conjunto: VIVIENDA 14 | | | | | | | | | | | | |
|-----------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|--------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D21 | Planta 3 | 174.20 | 172.64 | 207.44 | 357.25 | 392.05 | 38.27 | 81.60 | 158.54 | 38.85 | 438.85 | 550.59 |
| D22 | Planta 3 | 119.23 | 166.33 | 235.93 | 294.12 | 363.72 | 36.00 | 20.31 | 90.45 | 42.31 | 314.43 | 454.18 |
| D23 | Planta 3 | 114.62 | 167.02 | 236.62 | 290.09 | 359.69 | 36.00 | 20.31 | 90.45 | 41.39 | 310.40 | 450.14 |
| S2 | Planta 3 | 259.34 | 649.08 | 857.88 | 935.67 | 1144.47 | 64.80 | 36.56 | 162.82 | 56.72 | 972.23 | 1307.29 |
| C2 | Planta 3 | 101.26 | 275.79 | 378.20 | 388.36 | 490.77 | 54.88 | 58.52 | 168.87 | 86.54 | 446.88 | 659.64 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

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| Conjunto: VIVIENDA 14 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| P2 | Planta 3 | 12.58 | 10.49 | 10.49 | 23.77 | 23.77 | 10.42 | 11.11 | 32.06 | 14.47 | 34.88 | 55.84 |
| V2 | Planta 3 | 49.83 | 13.16 | 13.16 | 64.88 | 64.88 | 11.83 | 11.08 | 34.39 | 22.67 | 75.96 | 99.28 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3540.4 | |

| Conjunto: VIVIENDA 15 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D31 | Planta 3 | 173.46 | 172.64 | 207.44 | 356.48 | 391.28 | 38.27 | 81.60 | 158.54 | 38.80 | 438.08 | 549.83 |
| D32 | Planta 3 | 119.23 | 166.33 | 235.93 | 294.12 | 363.72 | 36.00 | 20.31 | 90.45 | 42.31 | 314.43 | 454.18 |
| D33 | Planta 3 | 111.20 | 167.02 | 236.62 | 286.56 | 356.16 | 36.00 | 20.31 | 90.45 | 41.07 | 306.88 | 446.62 |
| S3 | Planta 3 | 260.56 | 649.08 | 857.88 | 936.93 | 1145.73 | 64.80 | 36.56 | 162.82 | 56.77 | 973.49 | 1308.55 |
| C3 | Planta 3 | 101.29 | 275.79 | 378.20 | 388.39 | 490.80 | 54.88 | 58.52 | 168.87 | 86.54 | 446.91 | 659.67 |
| P3 | Planta 3 | 12.58 | 10.49 | 10.49 | 23.77 | 23.77 | 10.42 | 11.11 | 32.06 | 14.47 | 34.88 | 55.84 |
| V3 | Planta 3 | 49.52 | 13.16 | 13.16 | 64.56 | 64.56 | 11.83 | 11.08 | 34.39 | 22.59 | 75.64 | 98.96 |
| Total | | | | | | | 252.2 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3539.7 | |

| Conjunto: VIVIENDA 16 | | | | | | | | | | | | |
|-------------------------------|----------|-----------------|-----------------------|--------------------|---------------|-----------|---------------|--------------|-----------------|-----------------------|---------------|-----------|
| Recinto | Planta | Subtotales | | | Carga interna | | Ventilación | | | Potencia térmica | | |
| | | Estructural (W) | Sensible interior (W) | Total interior (W) | Sensible (W) | Total (W) | Caudal (m³/h) | Sensible (W) | Carga total (W) | Por superficie (W/m²) | Sensible (W) | Total (W) |
| D41 | Planta 3 | 175.33 | 174.24 | 209.04 | 360.06 | 394.86 | 38.83 | 82.80 | 160.86 | 38.65 | 442.86 | 555.73 |
| D42 | Planta 3 | 135.58 | 165.18 | 234.78 | 309.78 | 379.38 | 36.00 | 20.31 | 90.45 | 44.74 | 330.09 | 469.83 |
| D43 | Planta 3 | 114.62 | 167.02 | 236.62 | 290.09 | 359.69 | 36.00 | 20.31 | 90.45 | 41.39 | 310.40 | 450.14 |
| S4 | Planta 3 | 258.86 | 649.08 | 857.88 | 935.18 | 1143.98 | 64.80 | 36.56 | 162.82 | 56.70 | 971.74 | 1306.80 |
| C4 | Planta 3 | 101.26 | 275.79 | 378.20 | 388.36 | 490.77 | 54.88 | 58.52 | 168.87 | 86.54 | 446.88 | 659.64 |
| P4 | Planta 3 | 12.58 | 10.49 | 10.49 | 23.77 | 23.77 | 10.42 | 11.11 | 32.06 | 14.47 | 34.88 | 55.84 |
| V4 | Planta 3 | 49.83 | 13.16 | 13.16 | 64.88 | 64.88 | 11.83 | 11.08 | 34.39 | 22.67 | 75.96 | 99.28 |
| Total | | | | | | | 252.8 | | | | | |
| Carga total simultánea | | | | | | | | | | | 3563.7 | |

Calefacción

| Conjunto: VIVIENDA 1 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D11 | Planta baja | 750.44 | 38.27 | 264.51 | 71.62 | 1014.95 |
| D12 | Planta baja | 660.39 | 36.00 | 248.85 | 86.59 | 909.24 |
| D13 | Planta baja | 560.08 | 36.00 | 248.85 | 74.38 | 808.93 |
| S1 | Planta baja | 1319.68 | 64.80 | 447.94 | 76.69 | 1767.62 |
| C1 | Planta baja | 439.91 | 54.88 | 189.68 | 82.60 | 629.60 |
| B11 | Planta baja | 228.09 | 54.00 | 186.64 | 109.28 | 414.73 |
| B12 | Planta baja | 273.38 | 54.00 | 186.64 | 122.11 | 460.02 |
| P1 | Planta baja | 49.76 | 10.42 | 36.02 | 22.22 | 85.78 |
| V1 | Planta baja | 235.53 | 11.83 | 40.87 | 63.11 | 276.40 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6367.3 |

| Conjunto: VIVIENDA 2 | | | | | | |
|----------------------|--|--|--|--|--|--|
|----------------------|--|--|--|--|--|--|

Anexo. Listado resumen de cargas térmicas

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| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D21 | Planta baja | 750.44 | 38.27 | 264.51 | 71.62 | 1014.95 |
| D22 | Planta baja | 598.98 | 36.00 | 248.85 | 78.98 | 847.83 |
| D23 | Planta baja | 560.15 | 36.00 | 248.85 | 74.39 | 809.00 |
| S2 | Planta baja | 1319.68 | 64.80 | 447.94 | 76.69 | 1767.62 |
| C2 | Planta baja | 458.73 | 54.88 | 189.68 | 85.07 | 648.42 |
| B21 | Planta baja | 107.43 | 54.00 | 186.64 | 73.75 | 294.08 |
| B22 | Planta baja | 220.14 | 54.00 | 186.64 | 102.76 | 406.78 |
| P2 | Planta baja | 49.76 | 10.42 | 36.02 | 22.22 | 85.78 |
| V2 | Planta baja | 235.53 | 11.83 | 40.87 | 63.11 | 276.40 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6150.9 |

| Conjunto: VIVIENDA 3 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D31 | Planta baja | 750.44 | 38.27 | 264.51 | 71.62 | 1014.95 |
| D32 | Planta baja | 598.98 | 36.00 | 248.85 | 78.98 | 847.83 |
| D33 | Planta baja | 560.15 | 36.00 | 248.85 | 74.39 | 809.00 |
| S3 | Planta baja | 1319.68 | 64.80 | 447.94 | 76.69 | 1767.62 |
| C3 | Planta baja | 458.73 | 54.88 | 189.68 | 85.07 | 648.42 |
| B31 | Planta baja | 107.43 | 54.00 | 186.64 | 73.75 | 294.08 |
| B32 | Planta baja | 220.14 | 54.00 | 186.64 | 102.76 | 406.78 |
| P3 | Planta baja | 49.76 | 10.42 | 36.02 | 22.22 | 85.78 |
| V3 | Planta baja | 235.53 | 11.83 | 40.87 | 63.11 | 276.40 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6150.9 |

| Conjunto: VIVIENDA 4 | | | | | | |
|-------------------------------|-------------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D41 | Planta baja | 750.44 | 38.27 | 264.51 | 71.62 | 1014.95 |
| D42 | Planta baja | 658.29 | 36.00 | 248.85 | 86.39 | 907.15 |
| D43 | Planta baja | 560.15 | 36.00 | 248.85 | 74.39 | 809.00 |
| S4 | Planta baja | 1319.68 | 64.80 | 447.94 | 76.69 | 1767.62 |
| C4 | Planta baja | 458.73 | 54.88 | 189.68 | 85.07 | 648.42 |
| B41 | Planta baja | 228.09 | 54.00 | 186.64 | 109.28 | 414.73 |
| B42 | Planta baja | 273.38 | 54.00 | 186.64 | 122.11 | 460.02 |
| P4 | Planta baja | 49.76 | 10.42 | 36.02 | 22.22 | 85.78 |
| V4 | Planta baja | 235.53 | 11.83 | 40.87 | 63.11 | 276.40 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6384.1 |

| Conjunto: VIVIENDA 5 | | | | | | |
|----------------------|--------|------------------------|-------------|--|----------|--|
| Recinto | Planta | Carga interna sensible | Ventilación | | Potencia | |

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| | | (W) | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
|-------------------------------|----------|---------|---------------|-----------------|-----------------------|---------------|
| D11 | Planta 1 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D12 | Planta 1 | 794.42 | 36.00 | 248.85 | 99.35 | 1043.28 |
| D13 | Planta 1 | 697.17 | 36.00 | 248.85 | 86.99 | 946.02 |
| S1 | Planta 1 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C1 | Planta 1 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B11 | Planta 1 | 230.81 | 54.00 | 186.64 | 110.00 | 417.45 |
| B12 | Planta 1 | 276.68 | 54.00 | 186.64 | 122.98 | 463.32 |
| P1 | Planta 1 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V1 | Planta 1 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 7142.9 |

| Conjunto: VIVIENDA 6 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D21 | Planta 1 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D22 | Planta 1 | 734.29 | 36.00 | 248.85 | 91.59 | 983.15 |
| D23 | Planta 1 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S2 | Planta 1 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C2 | Planta 1 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B21 | Planta 1 | 108.96 | 54.00 | 186.64 | 74.13 | 295.60 |
| B22 | Planta 1 | 222.32 | 54.00 | 186.64 | 103.31 | 408.97 |
| P2 | Planta 1 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V2 | Planta 1 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6906.7 |

| Conjunto: VIVIENDA 7 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D31 | Planta 1 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D32 | Planta 1 | 734.29 | 36.00 | 248.85 | 91.59 | 983.15 |
| D33 | Planta 1 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S3 | Planta 1 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C3 | Planta 1 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B31 | Planta 1 | 108.96 | 54.00 | 186.64 | 74.13 | 295.60 |
| B32 | Planta 1 | 222.32 | 54.00 | 186.64 | 103.31 | 408.97 |
| P3 | Planta 1 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V3 | Planta 1 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6906.7 |

| Conjunto: VIVIENDA 8 | | | | | | |
|----------------------|--------|----------------------------|---------------|-----------------|-----------------------|-----------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| Conjunto: VIVIENDA 8 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D41 | Planta 1 | 935.95 | 38.83 | 268.38 | 83.75 | 1204.34 |
| D42 | Planta 1 | 792.30 | 36.00 | 248.85 | 99.15 | 1041.15 |
| D43 | Planta 1 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S4 | Planta 1 | 1610.50 | 64.80 | 447.94 | 89.31 | 2058.43 |
| C4 | Planta 1 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B41 | Planta 1 | 230.81 | 54.00 | 186.64 | 110.00 | 417.45 |
| B42 | Planta 1 | 279.27 | 54.00 | 186.64 | 121.44 | 465.91 |
| P4 | Planta 1 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V4 | Planta 1 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.8 | | | |
| Carga total simultánea | | | | | | 7150.1 |

| Conjunto: VIVIENDA 10 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D21 | Planta 2 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D22 | Planta 2 | 734.29 | 36.00 | 248.85 | 91.59 | 983.15 |
| D23 | Planta 2 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S2 | Planta 2 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C2 | Planta 2 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B21 | Planta 2 | 108.96 | 54.00 | 186.64 | 74.13 | 295.60 |
| B22 | Planta 2 | 222.32 | 54.00 | 186.64 | 103.31 | 408.97 |
| P2 | Planta 2 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V2 | Planta 2 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6906.7 |

| Conjunto: VIVIENDA 11 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D31 | Planta 2 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D32 | Planta 2 | 734.29 | 36.00 | 248.85 | 91.59 | 983.15 |
| D33 | Planta 2 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S3 | Planta 2 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C3 | Planta 2 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B31 | Planta 2 | 108.96 | 54.00 | 186.64 | 74.13 | 295.60 |
| B32 | Planta 2 | 222.32 | 54.00 | 186.64 | 103.31 | 408.97 |
| P3 | Planta 2 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V3 | Planta 2 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6906.7 |

| Conjunto: VIVIENDA 12 | | | | | | |
|-----------------------|--|--|--|--|--|--|
|-----------------------|--|--|--|--|--|--|

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D41 | Planta 2 | 939.82 | 38.83 | 268.38 | 84.02 | 1208.20 |
| D42 | Planta 2 | 792.30 | 36.00 | 248.85 | 99.15 | 1041.15 |
| D43 | Planta 2 | 697.26 | 36.00 | 248.85 | 86.99 | 946.12 |
| S4 | Planta 2 | 1610.50 | 64.80 | 447.94 | 89.31 | 2058.43 |
| C4 | Planta 2 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B41 | Planta 2 | 230.81 | 54.00 | 186.64 | 110.00 | 417.45 |
| B42 | Planta 2 | 279.71 | 54.00 | 186.64 | 121.56 | 466.35 |
| P4 | Planta 2 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V4 | Planta 2 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.8 | | | |
| Carga total simultánea | | | | | | 7154.4 |

| Conjunto: VIVIENDA 9 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D11 | Planta 2 | 931.14 | 38.27 | 264.51 | 84.37 | 1195.65 |
| D12 | Planta 2 | 794.42 | 36.00 | 248.85 | 99.35 | 1043.28 |
| D13 | Planta 2 | 697.17 | 36.00 | 248.85 | 86.99 | 946.02 |
| S1 | Planta 2 | 1612.61 | 64.80 | 447.94 | 89.40 | 2060.55 |
| C1 | Planta 2 | 461.65 | 54.88 | 189.68 | 85.45 | 651.33 |
| B11 | Planta 2 | 230.81 | 54.00 | 186.64 | 110.00 | 417.45 |
| B12 | Planta 2 | 276.68 | 54.00 | 186.64 | 122.98 | 463.32 |
| P1 | Planta 2 | 51.24 | 10.42 | 36.02 | 22.61 | 87.25 |
| V1 | Planta 2 | 237.20 | 11.83 | 40.87 | 63.49 | 278.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 7142.9 |

| Conjunto: VIVIENDA 13 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D11 | Planta 3 | 760.65 | 38.27 | 264.51 | 72.34 | 1025.16 |
| D12 | Planta 3 | 668.08 | 36.00 | 248.85 | 87.32 | 916.94 |
| D13 | Planta 3 | 566.35 | 36.00 | 248.85 | 74.96 | 815.20 |
| S1 | Planta 3 | 1335.33 | 64.80 | 447.94 | 77.37 | 1783.27 |
| C1 | Planta 3 | 463.39 | 54.88 | 189.68 | 85.68 | 653.07 |
| B11 | Planta 3 | 231.68 | 54.00 | 186.64 | 110.23 | 418.32 |
| B12 | Planta 3 | 277.54 | 54.00 | 186.64 | 123.21 | 464.18 |
| P1 | Planta 3 | 52.12 | 10.42 | 36.02 | 22.84 | 88.13 |
| V1 | Planta 3 | 238.20 | 11.83 | 40.87 | 63.72 | 279.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6443.3 |

| Conjunto: VIVIENDA 14 | | | | | | |
|-----------------------|--------|------------------------|-------------|--|----------|--|
| Recinto | Planta | Carga interna sensible | Ventilación | | Potencia | |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| | | (W) | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
|-------------------------------|----------|---------|---------------|-----------------|-----------------------|---------------|
| D21 | Planta 3 | 760.65 | 38.27 | 264.51 | 72.34 | 1025.16 |
| D22 | Planta 3 | 605.17 | 36.00 | 248.85 | 79.56 | 854.02 |
| D23 | Planta 3 | 566.42 | 36.00 | 248.85 | 74.96 | 815.27 |
| S2 | Planta 3 | 1335.33 | 64.80 | 447.94 | 77.37 | 1783.27 |
| C2 | Planta 3 | 463.39 | 54.88 | 189.68 | 85.68 | 653.07 |
| B21 | Planta 3 | 109.87 | 54.00 | 186.64 | 74.36 | 296.51 |
| B22 | Planta 3 | 223.23 | 54.00 | 186.64 | 103.54 | 409.87 |
| P2 | Planta 3 | 52.12 | 10.42 | 36.02 | 22.84 | 88.13 |
| V2 | Planta 3 | 238.20 | 11.83 | 40.87 | 63.72 | 279.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6204.4 |

| Conjunto: VIVIENDA 15 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D31 | Planta 3 | 760.65 | 38.27 | 264.51 | 72.34 | 1025.16 |
| D32 | Planta 3 | 605.17 | 36.00 | 248.85 | 79.56 | 854.02 |
| D33 | Planta 3 | 566.42 | 36.00 | 248.85 | 74.96 | 815.27 |
| S3 | Planta 3 | 1335.33 | 64.80 | 447.94 | 77.37 | 1783.27 |
| C3 | Planta 3 | 463.39 | 54.88 | 189.68 | 85.68 | 653.07 |
| B31 | Planta 3 | 109.87 | 54.00 | 186.64 | 74.36 | 296.51 |
| B32 | Planta 3 | 223.23 | 54.00 | 186.64 | 103.54 | 409.87 |
| P3 | Planta 3 | 52.12 | 10.42 | 36.02 | 22.84 | 88.13 |
| V3 | Planta 3 | 238.20 | 11.83 | 40.87 | 63.72 | 279.08 |
| Total | | | 360.2 | | | |
| Carga total simultánea | | | | | | 6204.4 |

| Conjunto: VIVIENDA 16 | | | | | | |
|-------------------------------|----------|----------------------------|---------------|-----------------|-----------------------|---------------|
| Recinto | Planta | Carga interna sensible (W) | Ventilación | | Potencia | |
| | | | Caudal (m³/h) | Carga total (W) | Por superficie (W/m²) | Total (W) |
| D41 | Planta 3 | 766.83 | 38.83 | 268.38 | 71.99 | 1035.21 |
| D42 | Planta 3 | 665.99 | 36.00 | 248.85 | 87.12 | 914.84 |
| D43 | Planta 3 | 566.42 | 36.00 | 248.85 | 74.96 | 815.27 |
| S4 | Planta 3 | 1333.22 | 64.80 | 447.94 | 77.28 | 1781.15 |
| C4 | Planta 3 | 463.39 | 54.88 | 189.68 | 85.68 | 653.07 |
| B41 | Planta 3 | 231.68 | 54.00 | 186.64 | 110.23 | 418.32 |
| B42 | Planta 3 | 280.59 | 54.00 | 186.64 | 121.79 | 467.23 |
| P4 | Planta 3 | 52.12 | 10.42 | 36.02 | 22.84 | 88.13 |
| V4 | Planta 3 | 238.20 | 11.83 | 40.87 | 63.72 | 279.08 |
| Total | | | 360.8 | | | |
| Carga total simultánea | | | | | | 6452.3 |

3.- RESUMEN DE LOS RESULTADOS PARA CONJUNTOS DE RECINTOS

Refrigeración

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13

| Conjunto | Potencia por superficie (W/m ²) | Potencia total (W) |
|-------------|---|--------------------|
| VIVIENDA 1 | 6.4 | 3273.4 |
| VIVIENDA 2 | 39.5 | 3262.1 |
| VIVIENDA 3 | 39.5 | 3261.6 |
| VIVIENDA 4 | 40.0 | 3280.0 |
| VIVIENDA 5 | 41.7 | 3422.8 |
| VIVIENDA 6 | 41.2 | 3406.7 |
| VIVIENDA 7 | 41.2 | 3406.3 |
| VIVIENDA 8 | 41.6 | 3427.4 |
| VIVIENDA 10 | 41.2 | 3406.8 |
| VIVIENDA 11 | 41.2 | 3406.3 |
| VIVIENDA 12 | 41.7 | 3427.9 |
| VIVIENDA 9 | 41.7 | 3422.8 |
| VIVIENDA 13 | 43.3 | 3554.4 |
| VIVIENDA 14 | 42.9 | 3540.4 |
| VIVIENDA 15 | 42.9 | 3539.7 |
| VIVIENDA 16 | 43.3 | 3563.7 |

Calefacción

| Conjunto | Potencia por superficie (W/m ²) | Potencia total (W) |
|-------------|---|--------------------|
| VIVIENDA 1 | 12.5 | 6367.3 |
| VIVIENDA 2 | 74.5 | 6150.9 |
| VIVIENDA 3 | 74.5 | 6150.9 |
| VIVIENDA 4 | 77.9 | 6384.1 |
| VIVIENDA 5 | 87.1 | 7142.9 |
| VIVIENDA 6 | 83.6 | 6906.7 |
| VIVIENDA 7 | 83.6 | 6906.7 |
| VIVIENDA 8 | 86.9 | 7150.1 |
| VIVIENDA 10 | 83.6 | 6906.7 |
| VIVIENDA 11 | 83.6 | 6906.7 |
| VIVIENDA 12 | 86.9 | 7154.4 |
| VIVIENDA 9 | 87.1 | 7142.9 |
| VIVIENDA 13 | 78.6 | 6443.3 |
| VIVIENDA 14 | 75.1 | 6204.4 |
| VIVIENDA 15 | 75.1 | 6204.4 |
| VIVIENDA 16 | 78.4 | 6452.3 |

Anexo. Listado resumen de cargas térmicas

16 VIVIENDAS BLOQUE

Fecha: 07/05/13
