

**RELAZIONE TECNICA**

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| --- | --- |
| **Progetto**: | 2009/1897 |
|  |  |
| **Committente** | Colombo Angelo |
|  |  |
|  |  |
| **Revisione** | **0** |
|  |  |
| **Data:** | 29 Luglio 2009 |
|  |  |
| **Data Revisione** |  |

LA PRESENTE RELAZIONE TECNICA DEVE ESSERE VERIFICATA

ED APPROVATA DAL PROGETTISTA TERMOTECNICO INCARICATO.

**Unità immobiliare UI-(Abitazione civile)**

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Bagno | | **Codice:** | A-1 | **Collettore:** | | C - 1 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 6.79 | **Potenza richiesta** | [W] | : 760.2 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 32.97 |
| **Superficie totale a soffitto** | | | [m²] | : 6.79 |
| **Superficie residenziale** | | | [m²] | : 4.82 | **Potenza residua** | [W] | : -194.5 | | : 165 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 2 | | | | | |

**Dati relativi ai circuiti a pavimento**

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| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 1 | | | | **Superficie ricoperta** [m²]: 2.43 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 50 | 117.6 | | | 34.3 | | | | 285.4 | 83.3 | | | 30.4 | | | 19 | | 2.43 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 49.75 | | | | **Spirale** [m]: | | | | 48.97 | | | **Adduzione**: [m] | | | | 0.78 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 285.6 | | | | 26.7 | | | | 312.3 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 54 | | | 116.47 | | | 54 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 83.3 | | | 7.8 | | | | | 91.1 | | |

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| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 2 | | | | **Superficie ricoperta** [m²]: 2.38 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 50 | 117.6 | | | 34.3 | | | | 280.3 | 81.8 | | | 30.4 | | | 19 | | 2.38 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 49.25 | | | | **Spirale** [m]: | | | | 48.47 | | | **Adduzione**: [m] | | | | 0.78 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 280.5 | | | | 26.2 | | | | 306.7 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 53 | | | 111.87 | | | 53 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 81.8 | | | 7.7 | | | | | 89.5 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | A-2 | **Collettore:** | | C - 1 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 14.23 | **Potenza richiesta** | [W] | : 1573.9 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 45.27 |
| **Superficie totale a soffitto** | | | [m²] | : 14.23 |
| **Superficie residenziale** | | | [m²] | : 13.07 | **Potenza residua** | [W] | : -271.5 | | : 400.3 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 2 | | | | | |

**Dati relativi ai circuiti a pavimento**

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| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 3 | | | | **Superficie ricoperta** [m²]: 5.6 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.7 | | | | 559.5 | 172.2 | | | 29 | | | 19.5 | | 5.6 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 50.73 | | | | **Spirale** [m]: | | | | 42.98 | | | **Adduzione**: [m] | | | | 7.75 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 615.7 | | | | 62.4 | | | | 678.1 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 117 | | | 445.03 | | | 117 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 183.4 | | | 18.6 | | | | | 202 | | |

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| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 4 | | | | **Superficie ricoperta** [m²]: 7.44 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.7 | | | | 742.8 | 228.1 | | | 29 | | | 19.5 | | 7.44 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 53.39 | | | | **Spirale** [m]: | | | | 48.11 | | | **Adduzione**: [m] | | | | 5.28 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 770.6 | | | | 78.1 | | | | 848.6 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 146 | | | 689.91 | | | 146 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 233.6 | | | 23.7 | | | | | 257.3 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | A-3 | **Collettore:** | |  | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 29 | **Potenza richiesta** | [W] | : 2775.1 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 74.52 |
| **Superficie totale a soffitto** | | | [m²] | : 29 |
| **Superficie residenziale** | | | [m²] | : 25.34 | **Potenza residua** | [W] | : -305.1 | | : 882.9 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 132 | | : 27.3 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 3 | | | | | |

**Dati relativi ai circuiti a pavimento**

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| **Collettore**: | | | | | | | | | | **Circuito n.**: 5 | | | | **Superficie ricoperta** [m²]: 8.25 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.2 | | | | 823.3 | 249.2 | | | 29 | | | 19.6 | | 8.25 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 78.42 | | | | **Spirale** [m]: | | | | 57.59 | | | **Adduzione**: [m] | | | | 20.83 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 865 | | | | 100.5 | | | | 965.5 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 166 | | | 1190.35 | | | 166 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.7 | | | 374.5 | | | 43.5 | | | | | 418 | | |

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| **Collettore**: | | | | | | | | | | **Circuito n.**: 6 | | | | **Superficie ricoperta** [m²]: 9.19 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.8 | | | | 917.7 | 283.4 | | | 29 | | | 19.5 | | 9.19 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 80.42 | | | | **Spirale** [m]: | | | | 60 | | | **Adduzione**: [m] | | | | 20.42 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 1147.9 | | | | 116.3 | | | | 1264.2 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 217 | | | 2078.77 | | | 217 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.4 | | | 330.3 | | | 33.5 | | | | | 363.8 | | |

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| **Collettore**: | | | | | | | | | | **Circuito n.**: 7 | | | | **Superficie ricoperta** [m²]: 8.08 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.8 | | | | 806.7 | 248.9 | | | 29 | | | 19.5 | | 8.08 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 74.85 | | | | **Spirale** [m]: | | | | 58.67 | | | **Adduzione**: [m] | | | | 16.17 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 971.4 | | | | 98.4 | | | | 1069.9 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 184 | | | 1445.88 | | | 184 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.4 | | | 282.4 | | | 28.6 | | | | | 311.1 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | A-4 | **Collettore:** | | C - 1 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 4.47 | **Potenza richiesta** | [W] | : 683.2 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 25.5 |
| **Superficie totale a soffitto** | | | [m²] | : 4.47 |
| **Superficie residenziale** | | | [m²] | : 3.67 | **Potenza residua** | [W] | : -318.7 | | : 113.4 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 1 | | | | | |

**Dati relativi ai circuiti a pavimento**

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| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 8 | | | | **Superficie ricoperta** [m²]: 3.65 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 31.1 | | | | 364.6 | 113.4 | | | 29 | | | 19.5 | | 3.65 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 51.97 | | | | **Spirale** [m]: | | | | 26.04 | | | **Adduzione**: [m] | | | | 25.93 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 611.1 | | | | 61.9 | | | | 673 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 116 | | | 450.06 | | | 116 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.3 | | | 163.6 | | | 16.6 | | | | | 180.2 | | |

**CARATTERISTICHE DELL' AMBIENTE**

|  |  |  |  |  |  |  |  |  |  |
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| **Camera:** | | Locale | | **Codice:** | A-5 | **Collettore:** | | C - 1 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 15.6 | **Potenza richiesta** | [W] | : 1605.6 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 50.03 |
| **Superficie totale a soffitto** | | | [m²] | : 15.6 |
| **Superficie residenziale** | | | [m²] | : 9.23 | **Potenza residua** | [W] | : -222.6 | | : 376.5 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 472.6 | | : 96.9 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 1 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Collettore**: C - 1 | | | | | | | | | | **Circuito n.**: 9 | | | | **Superficie ricoperta** [m²]: 9.12 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.7 | | | | 910.4 | 279.5 | | | 29 | | | 19.5 | | 9.12 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 69.67 | | | | **Spirale** [m]: | | | | 63.9 | | | **Adduzione**: [m] | | | | 5.78 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 939.7 | | | | 95.2 | | | | 1034.9 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 178 | | | 1270.32 | | | 178 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 285.3 | | | 28.9 | | | | | 314.2 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | A-7 | **Collettore:** | |  | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 2.54 | **Potenza richiesta** | [W] | : 490 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 21.6 |
| **Superficie totale a soffitto** | | | [m²] | : 2.54 |
| **Superficie residenziale** | | | [m²] | : 1.38 | **Potenza residua** | [W] | : -234.7 | | : 51.1 |
| **Superficie marginale** | | | [m²] | : 1.16 | **Potenza acquisita (Passaggi)** | [W] | : 255.3 | | : 51.1 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 5 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 2.75 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 0 | | | | | |

**CARATTERISTICHE DELL' AMBIENTE**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Camera:** | | Bagno | | **Codice:** | B-1 | **Collettore:** | | C - 2 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 5.84 | **Potenza richiesta** | [W] | : 800.6 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 28.74 |
| **Superficie totale a soffitto** | | | [m²] | : 5.84 |
| **Superficie residenziale** | | | [m²] | : 4.12 | **Potenza residua** | [W] | : -318.2 | | : 139.5 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 1 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 1 | | | | **Superficie ricoperta** [m²]: 4.1 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 50 | 117.6 | | | 34 | | | | 482.4 | 139.5 | | | 30.4 | | | 19 | | 4.1 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 88.69 | | | | **Spirale** [m]: | | | | 80.33 | | | **Adduzione**: [m] | | | | 8.37 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 564.4 | | | | 47.9 | | | | 612.3 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 105 | | | 652.92 | | | 105 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 155.7 | | | 13.2 | | | | | 169 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | B-2 | **Collettore:** | | C - 2 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 21.08 | **Potenza richiesta** | [W] | : 1872.8 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 56.57 |
| **Superficie totale a soffitto** | | | [m²] | : 21.08 |
| **Superficie residenziale** | | | [m²] | : 19.38 | **Potenza residua** | [W] | : 61.5 | | : 591.4 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 3 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 2 | | | | **Superficie ricoperta** [m²]: 6.58 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.5 | | | | 656.8 | 200.8 | | | 29 | | | 19.5 | | 6.58 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 71.19 | | | | **Spirale** [m]: | | | | 46.92 | | | **Adduzione**: [m] | | | | 24.27 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 971.8 | | | | 82.4 | | | | 1054.2 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 181 | | | 1340.43 | | | 181 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 264.4 | | | 22.4 | | | | | 286.8 | | |

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| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 3 | | | | **Superficie ricoperta** [m²]: 7.23 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.5 | | | | 722.1 | 220.6 | | | 29 | | | 19.5 | | 7.23 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 69.65 | | | | **Spirale** [m]: | | | | 45.65 | | | **Adduzione**: [m] | | | | 23.99 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 1030.4 | | | | 87.4 | | | | 1117.8 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 192 | | | 1452.2 | | | 192 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 282.9 | | | 24 | | | | | 306.9 | | |

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| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 4 | | | | **Superficie ricoperta** [m²]: 5.56 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.6 | | | | 555.4 | 170 | | | 29 | | | 19.5 | | 5.56 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 59.76 | | | | **Spirale** [m]: | | | | 36.33 | | | **Adduzione**: [m] | | | | 23.43 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 854.7 | | | | 72.5 | | | | 927.2 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 159 | | | 900.35 | | | 159 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.4 | | | 230.5 | | | 19.6 | | | | | 250.1 | | |

**CARATTERISTICHE DELL' AMBIENTE**

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| **Camera:** | | Locale | | **Codice:** | B-3 | **Collettore:** | | C - 2 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 31.89 | **Potenza richiesta** | [W] | : 2934 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 77.25 |
| **Superficie totale a soffitto** | | | [m²] | : 31.89 |
| **Superficie residenziale** | | | [m²] | : 23.21 | **Potenza residua** | [W] | : -40.7 | | : 818.6 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 578.9 | | : 118.1 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 2 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 5 | | | | **Superficie ricoperta** [m²]: 11.23 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.2 | | | | 1121.1 | 339.4 | | | 29 | | | 19.6 | | 11.23 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 89.7 | | | | **Spirale** [m]: | | | | 80.99 | | | **Adduzione**: [m] | | | | 8.7 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 1185.1 | | | | 100.5 | | | | 1285.6 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 221 | | | 2387.45 | | | 221 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.6 | | | 352 | | | 29.9 | | | | | 381.9 | | |

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| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 6 | | | | **Superficie ricoperta** [m²]: 11.95 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.2 | | | | 1193.3 | 361.2 | | | 29 | | | 19.6 | | 11.95 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 89.41 | | | | **Spirale** [m]: | | | | 80.88 | | | **Adduzione**: [m] | | | | 8.53 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 1253.9 | | | | 106.4 | | | | 1360.3 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 234 | | | 2627.21 | | | 234 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.6 | | | 373.1 | | | 31.7 | | | | | 404.8 | | |

**CARATTERISTICHE DELL' AMBIENTE**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Camera:** | | Locale | | **Codice:** | B-4 | **Collettore:** | | C - 2 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 4.2 | **Potenza richiesta** | [W] | : 412.3 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 24.72 |
| **Superficie totale a soffitto** | | | [m²] | : 4.2 |
| **Superficie residenziale** | | | [m²] | : 3.68 | **Potenza residua** | [W] | : -47.7 | | : 111.3 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 0 | | : 0 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 1 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 7 | | | | **Superficie ricoperta** [m²]: 3.65 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.5 | | | | 364.6 | 111.3 | | | 29 | | | 19.5 | | 3.65 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 37.53 | | | | **Spirale** [m]: | | | | 25.76 | | | **Adduzione**: [m] | | | | 11.77 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 502.2 | | | | 42.6 | | | | 544.8 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 94 | | | 226.15 | | | 94 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.5 | | | 139.2 | | | 11.8 | | | | | 151 | | |

**CARATTERISTICHE DELL' AMBIENTE**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Camera:** | | Locale | | **Codice:** | B-5 | **Collettore:** | | C - 2 | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 15.95 | **Potenza richiesta** | [W] | : 1207.6 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 54.84 |
| **Superficie totale a soffitto** | | | [m²] | : 15.95 |
| **Superficie residenziale** | | | [m²] | : 12.87 | **Potenza residua** | [W] | : 184.1 | | : 409.4 |
| **Superficie marginale** | | | [m²] | : 0 | **Potenza acquisita (Passaggi)** | [W] | : 117.2 | | : 23.9 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 2 | | | | | |

**Dati relativi ai circuiti a pavimento**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 9 | | | | **Superficie ricoperta** [m²]: 6.66 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.2 | | | | 665.5 | 201.2 | | | 29 | | | 19.6 | | 6.66 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 49.92 | | | | **Spirale** [m]: | | | | 47.5 | | | **Adduzione**: [m] | | | | 2.42 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 678.4 | | | | 57.5 | | | | 736 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 126 | | | 504.28 | | | 126 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.6 | | | 203.7 | | | 17.3 | | | | | 221 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Collettore**: C - 2 | | | | | | | | | | **Circuito n.**: 8 | | | | **Superficie ricoperta** [m²]: 6.1 | | | | | | | |
|  | | **Passo**  [mm] | **Densità**  [W/m²] | | | | | | | **Potenza**  [W] | | | | **Temperatura Supeficiale** [°C] | | | | | **Superficie ricoperta**  [m²] | | |
| **Inv.** | | | **Est.** | | | | **Inv.** | **Est.** | | | **Inv.** | | | **Est.** | |
| **Zona Soggiornale** | | 150 | 99.8 | | | 30.2 | | | | 608.9 | 184.3 | | | 29 | | | 19.6 | | 6.1 | | |
| **Zona Marginale** | | 0 | 0 | | | 0 | | | | 0 | 0 | | | 0 | | | 0 | | 0 | | |
| **Lunghezza circuito** | | **Totale** [m]: | | | 46.44 | | | | **Spirale** [m]: | | | | 41.74 | | | **Adduzione**: [m] | | | | 4.71 | |
|  | **DT inverno**  [°C] | | | **Potenza invernale** [W] | | | | | | | | | | | **Portata**  [l/h] | | | **DP**  [daPa] | | | **Posizione valvola** |
| **Alto** | | | | **Basso** | | | | **Totale** | | |
|  | 5 | | | 643.2 | | | | 54.6 | | | | 697.8 | | |
|  | **DT estate**  [°C] | | | **Potenza estiva** [W] | | | | | | | | | | | 120 | | | 428.03 | | | 120 [l/h] |
| **Alto** | | | **Basso** | | | | | **Totale** | | |
| **Dati circuito** | 1.6 | | | 191.1 | | | 16.2 | | | | | 207.3 | | |

**CARATTERISTICHE DELL' AMBIENTE**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Camera:** | | Locale | | **Codice:** | B-6 | **Collettore:** | |  | |
|  | | |  |  |  |  | **Invernale** | | **Estiva** |
| **Superficie totale** | | | [m²] | : 5.84 | **Potenza richiesta** | [W] | : 679.4 | | : 0 |
| **Superficie totale a parete** | | | [m²] | : 33.11 |
| **Superficie totale a soffitto** | | | [m²] | : 5.84 |
| **Superficie residenziale** | | | [m²] | : 4.81 | **Potenza residua** | [W] | : -61.4 | | : 122.5 |
| **Superficie marginale** | | | [m²] | : 1.03 | **Potenza acquisita (Passaggi)** | [W] | : 618 | | : 122.5 |
| **Superficie a parete** | | | [m²] | : 0 |
| **Superficie a soffitto** | | | [m²] | : 0 |
|  | | |  |  |
| **Temperatura interna invernale** | | | [°C] | : 20 | **T. locale sottostante inv.** | [°C] | | : 20 | |
| **Temperatura interna estiva** | | | [°C] | : 23.9 | **T. locale sottostante est.** | [°C] | | : 20 | |
| **Pavimento** | **Resistenza rivestimento** | | | | [(m²°C)/W] | : 0.02 | | | |
| **Resistenza solaio** | | | | [(m²°C)/W] | : 1.55 | | | |
| **Spessore Massetto** | | | | [mm] | : 45 | | | |
| **Pannello** | | | |  | : Pannello MASTER BASIC H=20 mm | | | |
| **Tubo** | | | |  | : Tubo POLYSTOP 17x2 | | | |
| **Circuiti inseriti** | | |  | : 0 | | | | | |

**ELENCO COLLETTORI**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cod.**  **Collet.** | **Superficie**  **Pannellata**  [m²] | **N. Circ.** | **Temp**  **H2O**  **Inv**  [°C] | **Temp**  **H2O**  **Est**  [°C] | **Portata**  [l/h] | **dpMax**  [daPa] |  | **Pot.**  **Alto**  [W] | **Pot.**  **Basso**  [W] | **Pot.**  **Tot**  [W] |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C - 1 | 56.14 | 9 | 38.6 | 16.4 | 1229 | 2131.12 | **Inverno** | 6487.5 | 665.7 | 7153.2 |
| **Estate** | 2018.4 | 208.8 | 2227.1 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C - 2 | 63.07 | 9 | 38.6 | 16.4 | 1432 | 2687.38 | **Inverno** | 7684.2 | 651.8 | 8336.1 |
| **Estate** | 2192.7 | 186 | 2378.7 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Totale** | 119.21 | 18 |  |  | 2662 |  | **Inverno** | 14171.7 | 1317.6 | 15489.3 |
| **Estate** | 4211 | 394.8 | 4605.8 |

|  |  |  |
| --- | --- | --- |
| **Potenza invernale impianto a pannelli:** | **15489.3** | **[W]** |
| **Potenza estiva impianto a pannelli:** | **4605.8** | **[W]** |
| **Portata totale:** | **2662** | **[l/h]** |

|  |  |  |
| --- | --- | --- |
| **Portata totale (38.6 [°C]):** | **2661** | **[l/h]** |

|  |  |  |
| --- | --- | --- |
| **Portata totale (16.4 [°C]):** | **2661** | **[l/h]** |

|  |  |  |
| --- | --- | --- |
| **Potenza invernale da integrare:** | **-2015** | **[W]** |
| **Potenza estiva da integrare:** | **0** | **[W]** |
| **Potenza invernale richiesta al generatore:** | **17504.3** | **[W]** |
| **Potenza estiva richiesta al generatore:** | **4605.8** | **[W]** |
| **Superficie totale ambienti:** | **127.74** | **[m²]** |
| **Fabbisogno totale tubo:** | **1160.74** | **[m]** |
| **Contenuto acqua nell’impianto (tubi):** | **154.07** | **[l]** |

**TABELLA RIASSUNTIVA DEI LOCALI CON POTENZA DA INTEGRARE (Unità UI-(Abitazione civile))**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cod.** | Ambiente | **Potenza Richiesta**  **[W]** | **Potenza Residua**  **[W]** | **Potenza Residua**  **%** |

**INVERNO**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-1 | Bagno | 760.2 | -194.5 | -26% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-2 | Locale | 1573.9 | -271.5 | -17% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-3 | Locale | 2775.1 | -305.1 | -11% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-4 | Locale | 683.2 | -318.7 | -47% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-5 | Locale | 1605.6 | -222.6 | -14% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-7 | Locale | 490 | -234.7 | -48% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B-1 | Bagno | 800.6 | -318.2 | -40% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B-3 | Locale | 2934 | -40.7 | -1% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B-4 | Locale | 412.3 | -47.7 | -12% |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B-6 | Locale | 679.4 | -61.4 | -9% |

**ESTATE**

**TABELLA RIASSUNTIVA DI CANTIERE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Rivestimento** | **Superficie [m²]** | | | | | **Passo** | | **Lunghezza [m]** | | | | **Posizione valvola** | **Collettore** |
| **N.** | **Ambiente** | **Tot.**  **[m²]** | **Res.**  **[m²]** | **Mar.**  **[m²]** | **Par.**  **[m²]** | **Soff.**  **[m²]** | **Res.**  **[mm]** | **Mar.**  **[mm]** | **Vani passaggio** | **[m]** | **Adduz.**  **[m]** | **Total**  **[m]** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-1 | Bagno | Ceramica 15mm | 6.79 | 2.43 | 0 |  |  | 50 | 0 | A-7-Locale / | 0.02 / | 0.78 | 49.75 | 54 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 2.38 | 0 |  |  | 50 | 0 | A-7-Locale / | 0.02 / | 0.78 | 49.25 | 53 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-2 | Locale | Ceramica 15mm | 14.23 | 5.6 | 0 |  |  | 150 | 0 | A-6-Locale / A-7-Locale / | 2.51 / 0.85 / | 7.75 | 50.73 | 117 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 7.44 | 0 |  |  | 150 | 0 | A-6-Locale / A-7-Locale / | 1.41 / 0.69 / | 5.28 | 53.39 | 146 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-3 | Locale | Ceramica 15mm | 29 | 8.25 | 0 |  |  | 150 | 0 | A-5-Locale / A-6-Locale / A-7-Locale / | 4.76 / 0.84 / 5.33 / | 20.83 | 78.42 | 166 [l/h] |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 9.19 | 0 |  |  | 150 | 0 | A-5-Locale / A-6-Locale / A-7-Locale / | 4.96 / 1.04 / 4.69 / | 20.42 | 80.42 | 217 [l/h] |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 8.08 | 0 |  |  | 150 | 0 | A-5-Locale / A-6-Locale / A-7-Locale / | 5.16 / 1.24 / 1.96 / | 16.17 | 74.85 | 184 [l/h] |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-4 | Locale | Ceramica 15mm | 4.47 | 3.65 | 0 |  |  | 150 | 0 | A-3-Locale / A-5-Locale / A-6-Locale / A-7-Locale / | 4.72 / 5.36 / 1.44 / 1.18 / | 25.93 | 51.97 | 116 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-5 | Locale | Ceramica 15mm | 15.6 | 9.12 | 0 |  |  | 150 | 0 | A-6-Locale / A-7-Locale / | 1.64 / 1.02 / | 5.78 | 69.67 | 178 [l/h] | C - 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-6 | Locale | Ceramica 15mm | 1.44 | 0 | 0 |  |  | 150 | 0 | Solo passaggi |  | 0 | 0 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-7 | Locale | Ceramica 15mm | 2.54 | 0 | 0 |  |  | 100 | 0 | Solo passaggi |  | 0 | 0 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-1 | Bagno | Ceramica 15mm | 5.84 | 4.1 | 0 |  |  | 50 | 0 | B-6-Locale / | 4.02 / | 8.37 | 88.69 | 105 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-2 | Locale | Ceramica 15mm | 21.08 | 6.58 | 0 |  |  | 150 | 0 | B-3-Locale / B-6-Locale / | 5.6 / 6.84 / | 24.27 | 71.19 | 181 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 7.23 | 0 |  |  | 150 | 0 | B-3-Locale / B-6-Locale / | 6.7 / 5.8 / | 23.99 | 69.65 | 192 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 5.56 | 0 |  |  | 150 | 0 | B-3-Locale / B-6-Locale / | 7 / 5.27 / | 23.43 | 59.76 | 159 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B-3 | Locale | Ceramica 15mm | 31.89 | 11.23 | 0 |  |  | 150 | 0 | B-6-Locale / | 4.13 / | 8.7 | 89.7 | 221 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 11.95 | 0 |  |  | 150 | 0 | B-6-Locale / | 3.51 / | 8.53 | 89.41 | 234 [l/h] | C - 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| B-4 | Locale | Ceramica 15mm | 4.2 | 3.65 | 0 |  |  | 150 | 0 | B-5-Locale / B-6-Locale / | 4.12 / 1.21 / | 11.77 | 37.53 | 94 [l/h] | C - 2 |

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| B-5 | Locale | Ceramica 15mm | 15.95 | 6.66 | 0 |  |  | 150 | 0 | B-6-Locale / | 0.64 / | 2.42 | 49.92 | 126 [l/h] | C - 2 |

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|  |  |  | 0 | 6.1 | 0 |  |  | 150 | 0 | B-6-Locale / | 1.78 / | 4.71 | 46.44 | 120 [l/h] | C - 2 |

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| B-6 | Locale | Ceramica 15mm | 5.84 | 0 | 0 |  |  | 100 | 0 | Solo passaggi |  | 0 | 0 |  |  |

**AMBIENTI INTERESSATI DA ATTRAVERSAMENTI**

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| --- | --- | --- | --- | --- | --- |
| **#** | **Ambiente**  **attraversato** | **Copertura totale** | **[m]** | **N. Circuito** | **Circuiti**  **del vano** |

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| A-3 | Locale |  | 9.25 | 8 | A-4 - Locale |

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| A-5 | Locale |  | 9.62 | 5 | A-3 - Locale |

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|  |  |  | 10.02 | 6 | A-3 - Locale |

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|  |  |  | 10.42 | 7 | A-3 - Locale |

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|  |  |  | 10.82 | 8 | A-4 - Locale |

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| A-6 | Locale | Sì | 1.78 | 5 | A-3 - Locale |

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|  |  |  | 2.18 | 6 | A-3 - Locale |

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|  |  |  | 2.58 | 7 | A-3 - Locale |

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|  |  |  | 2.98 | 8 | A-4 - Locale |

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|  |  |  | 3.38 | 9 | A-5 - Locale |

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|  |  |  | 5.02 | 3 | A-2 - Locale |

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|  |  |  | 2.72 | 4 | A-2 - Locale |

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| A-7 | Locale | Sì | 10.34 | 5 | A-3 - Locale |

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|  |  |  | 9.07 | 6 | A-3 - Locale |

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|  |  |  | 3.22 | 7 | A-3 - Locale |

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|  |  |  | 2.29 | 8 | A-4 - Locale |

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|  |  |  | 1.96 | 9 | A-5 - Locale |

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|  |  |  | 1.63 | 3 | A-2 - Locale |

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|  |  |  | 1.3 | 4 | A-2 - Locale |

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|  |  |  | 0.04 | 1 | A-1 - Bagno |

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|  |  |  | 0.04 | 2 | A-1 - Bagno |

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| B-3 | Locale |  | 11.75 | 2 | B-2 - Locale |

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|  |  |  | 13.15 | 3 | B-2 - Locale |

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|  |  |  | 14.55 | 4 | B-2 - Locale |

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| B-5 | Locale |  | 8.45 | 7 | B-4 - Locale |

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| B-6 | Locale | Sì | 7.91 | 1 | B-1 - Bagno |

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|  |  |  | 1.57 | 9 | B-5 - Locale |

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|  |  |  | 2.7 | 7 | B-4 - Locale |

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|  |  |  | 3.9 | 8 | B-5 - Locale |

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|  |  |  | 13.41 | 2 | B-2 - Locale |

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|  |  |  | 11.34 | 3 | B-2 - Locale |

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|  |  |  | 9.07 | 4 | B-2 - Locale |

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|  |  |  | 8.22 | 5 | B-3 - Locale |

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|  |  |  | 7.54 | 6 | B-3 - Locale |

**TABELLA RIASSUNTIVA DI CANTIERE (esecutiva)**

N.B (\*): N° attacco collettore: si intende a partire dal lato di arrivo della colonna di alimentazione. Il N° 1 è il più vicino, il N° 2 è il successivo, ecc..

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| N. Circ. | Ambiente | N. Attacco collettore | Pos. Valvola | Lotto  produz.  Tubo | Inizio  [m] | Fine  [m] | Posati  [m] |

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|  | Bagno |  |  |  |  |  |  |

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|  | Bagno |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Bagno |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

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|  | Locale |  |  |  |  |  |  |

**Suddivisione dei rotoli in circuiti**

**Ditta: CHEMIDRO**

**Unità immobilari: UI-(Abitazione civile)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rotolo n.:** | 1 | **Tubo:** | Tubo POLYSTOP 17x2x2 | **Confez. [m]:** | 500 | **Scarto [m]:** | 5 |

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| **Ambiente** | **Circuito n.** | **Lungh [m]** | **VT** | **[m] inizio** | **[m] fine** | **[m] posati** |
| A-1 - Bagno | 1 | 50 |  |  |  |  |
| A-2 - Locale | 4 | 53 |  |  |  |  |
| A-3 - Locale | 5 | 78 |  |  |  |  |
| A-3 - Locale | 6 | 80 |  |  |  |  |
| A-3 - Locale | 7 | 75 |  |  |  |  |
| B-3 - Locale | 6 | 89 |  |  |  |  |
| A-5 - Locale | 9 | 70 |  |  |  |  |

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| **Rotolo n.:** | 2 | **Tubo:** | Tubo POLYSTOP 17x2x2 | **Confez. [m]:** | 500 | **Scarto [m]:** | 26 |

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| **Ambiente** | **Circuito n.** | **Lungh [m]** | **VT** | **[m] inizio** | **[m] fine** | **[m] posati** |
| A-1 - Bagno | 2 | 49 |  |  |  |  |
| B-2 - Locale | 2 | 71 |  |  |  |  |
| B-2 - Locale | 3 | 70 |  |  |  |  |
| B-2 - Locale | 4 | 60 |  |  |  |  |
| B-3 - Locale | 5 | 90 |  |  |  |  |
| B-4 - Locale | 7 | 38 |  |  |  |  |
| B-5 - Locale | 8 | 46 |  |  |  |  |
| B-5 - Locale | 9 | 50 |  |  |  |  |

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| **Rotolo n.:** | 3 | **Tubo:** | Tubo POLYSTOP 17x2x2 | **Confez. [m]:** | 200 | **Scarto [m]:** | 8 |

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| **Ambiente** | **Circuito n.** | **Lungh [m]** | **VT** | **[m] inizio** | **[m] fine** | **[m] posati** |
| A-2 - Locale | 3 | 51 |  |  |  |  |
| B-1 - Bagno | 1 | 89 |  |  |  |  |
| A-4 - Locale | 8 | 52 |  |  |  |  |