



# Declaration of Performance

No. 202009-1010

Florence 2 Column 200mm

|  |   |
|--|---|
| <b>Unique product code:</b>                      | SMC/F2C/194   |
| <b>Type, batch or serial number:</b>             | SMC/F2C/194   |
| <b>Intended use of the construction product:</b> | In heating systems in buildings   |
| <b>Manufacturer:</b>                             | Castrads Limited<br>1 Kenwood Road<br>Stockport SK5 6PH<br>United Kingdom                                   |
| <b>System of AVCP:</b>                           | System 3  |
| <b>Harmonized standard:</b>                      | EN 442-1:2014   |
| <b>Notified body:</b>                            | CETIAT<br>Domaine Scientifique de la Doua<br>25 Avenue des Arts<br>BP 52042<br>69603 Villeurbanne<br>France |
| <b>Test report number:</b>                       | ENE/MRT.ITPL.01005  |

## Declared performance

| Essential characteristics   | Performance   | Harmonized technical specification |
|---|---|------------------------------------|
| Reaction to fire  | A1  | EN 442-1:2014                      |
| Release of dangerous substances   | None  |                                    |
| Pressure tightness  | No leakage at 1.3 × maximum operating pressure [kPa]                            |                                    |
| Surface temperature   | Maximum 120 °C  |                                    |
| Resistance to pressure  | No breakage at 1.69 × maximum operating pressure [kPa]                          |                                    |
| Resistance to pressure  | Maximum operating pressure: 1000 [kPa]  |                                    |
| Rated thermal outputs   | See appendix 1  |                                    |
| Thermal output in different operating conditions (characteristic curve) | $\phi = K_m \cdot \Delta T^n$<br>See appendix for factor $K_m$ and exponent $n$ |                                    |
| Resistance against corrosion:   | No corrosion after 100h humidity  |                                    |
| Resistance against minor impact:  | Class 0   |                                    |

## Appendix: Dimensions and thermal outputs

Panel dimensions: 294mm h, 65mm d for all numbers of sections. See table for length.

| SKU            | Number of sections | Length, mm | Output, W $\Delta T50$ | Output, W $\Delta T30$ | Factor, Km | Exponent, n |
|----------------|--------------------|------------|------------------------|------------------------|------------|-------------|
| SMC/F2C/194/03 | 3                  | 165        | 45                     | 24                     | 0.334      | 1.25221     |
| SMC/F2C/194/04 | 4                  | 210        | 60                     | 32                     | 0.445      | 1.25221     |
| SMC/F2C/194/05 | 5                  | 255        | 75                     | 40                     | 0.556      | 1.25221     |
| SMC/F2C/194/06 | 6                  | 300        | 89                     | 47                     | 0.667      | 1.25221     |
| SMC/F2C/194/07 | 7                  | 345        | 104                    | 55                     | 0.778      | 1.25221     |
| SMC/F2C/194/08 | 8                  | 390        | 119                    | 63                     | 0.890      | 1.25221     |
| SMC/F2C/194/09 | 9                  | 435        | 134                    | 71                     | 1.001      | 1.25221     |
| SMC/F2C/194/10 | 10                 | 480        | 149                    | 79                     | 1.112      | 1.25221     |
| SMC/F2C/194/11 | 11                 | 525        | 164                    | 87                     | 1.223      | 1.25221     |
| SMC/F2C/194/12 | 12                 | 570        | 179                    | 95                     | 1.334      | 1.25221     |
| SMC/F2C/194/13 | 13                 | 615        | 194                    | 103                    | 1.445      | 1.25221     |
| SMC/F2C/194/14 | 14                 | 660        | 209                    | 111                    | 1.557      | 1.25221     |
| SMC/F2C/194/15 | 15                 | 705        | 224                    | 119                    | 1.668      | 1.25221     |
| SMC/F2C/194/16 | 16                 | 750        | 238                    | 126                    | 1.779      | 1.25221     |
| SMC/F2C/194/17 | 17                 | 795        | 253                    | 134                    | 1.890      | 1.25221     |
| SMC/F2C/194/18 | 18                 | 840        | 268                    | 142                    | 2.001      | 1.25221     |
| SMC/F2C/194/19 | 19                 | 885        | 283                    | 150                    | 2.113      | 1.25221     |
| SMC/F2C/194/20 | 20                 | 930        | 298                    | 158                    | 2.224      | 1.25221     |
| SMC/F2C/194/21 | 21                 | 975        | 313                    | 166                    | 2.335      | 1.25221     |
| SMC/F2C/194/22 | 22                 | 1020       | 328                    | 174                    | 2.446      | 1.25221     |
| SMC/F2C/194/23 | 23                 | 1065       | 343                    | 182                    | 2.557      | 1.25221     |
| SMC/F2C/194/24 | 24                 | 1110       | 358                    | 190                    | 2.669      | 1.25221     |
| SMC/F2C/194/25 | 25                 | 1155       | 373                    | 198                    | 2.780      | 1.25221     |
| SMC/F2C/194/26 | 26                 | 1200       | 387                    | 205                    | 2.891      | 1.25221     |
| SMC/F2C/194/27 | 27                 | 1245       | 402                    | 213                    | 3.002      | 1.25221     |
| SMC/F2C/194/28 | 28                 | 1290       | 417                    | 221                    | 3.113      | 1.25221     |
| SMC/F2C/194/29 | 29                 | 1335       | 432                    | 229                    | 3.225      | 1.25221     |
| SMC/F2C/194/30 | 30                 | 1380       | 447                    | 237                    | 3.336      | 1.25221     |
| SMC/F2C/194/31 | 31                 | 1425       | 462                    | 245                    | 3.447      | 1.25221     |
| SMC/F2C/194/32 | 32                 | 1470       | 477                    | 253                    | 3.558      | 1.25221     |
| SMC/F2C/194/33 | 33                 | 1515       | 492                    | 261                    | 3.669      | 1.25221     |
| SMC/F2C/194/34 | 34                 | 1560       | 507                    | 269                    | 3.780      | 1.25221     |
| SMC/F2C/194/35 | 35                 | 1605       | 522                    | 277                    | 3.892      | 1.25221     |
| SMC/F2C/194/36 | 36                 | 1650       | 536                    | 284                    | 4.003      | 1.25221     |
| SMC/F2C/194/37 | 37                 | 1695       | 551                    | 292                    | 4.114      | 1.25221     |
| SMC/F2C/194/38 | 38                 | 1740       | 566                    | 300                    | 4.225      | 1.25221     |
| SMC/F2C/194/39 | 39                 | 1785       | 581                    | 308                    | 4.336      | 1.25221     |
| SMC/F2C/194/40 | 40                 | 1830       | 596                    | 316                    | 4.448      | 1.25221     |

