



**CONFIDENTIAL**

**Report: Chilt/RF12153**

**A fire resistance test performed on 4 No. meter box enclosures, 4 No. meter box enclosure repair units and 6 No. fire seal units within a flexible supporting construction**

**Test conducted in accordance with  
BSEN 1366-3: 2009 and BSEN 1363-1:  
2012**

**Test date: 12<sup>th</sup> November 2012**

**Page 1 of 29**



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[www.chilternfire.co.uk](http://www.chilternfire.co.uk)

[www.chilterndynamics.co.uk](http://www.chilterndynamics.co.uk)

[www.qmark.info](http://www.qmark.info)



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## Contents

|                                                                         | Page No   |
|-------------------------------------------------------------------------|-----------|
| <b>1 Introduction .....</b>                                             | <b>3</b>  |
| <b>2 Specimen verification .....</b>                                    | <b>3</b>  |
| <b>3 Description of supporting construction .....</b>                   | <b>3</b>  |
| <b>4 Description of specimens.....</b>                                  | <b>3</b>  |
| 4.1 Meter box enclosures / fire seal units fitted in the partition..... | 3         |
| 4.2 Meter box enclosure fire sealing details.....                       | 5         |
| 4.3 Fire Seal unit sealing details.....                                 | 5         |
| 4.4 Specimen fixing details .....                                       | 5         |
| <b>5 Test conditions.....</b>                                           | <b>6</b>  |
| 5.1 Furnace temperature .....                                           | 6         |
| 5.2 Pressure readings .....                                             | 7         |
| 5.3 Ambient temperature .....                                           | 7         |
| 5.4 Thermocouple positions .....                                        | 7         |
| <b>6 Observations .....</b>                                             | <b>8</b>  |
| <b>7 Expression of results.....</b>                                     | <b>11</b> |
| <b>8 Limitations.....</b>                                               | <b>12</b> |
| <b>9 Photographs.....</b>                                               | <b>13</b> |
| <b>10 Graphs .....</b>                                                  | <b>16</b> |
| <b>Appendix 1 – clients drawings .....</b>                              | <b>23</b> |
| <b>Appendix 2 – figures 1 and 2.....</b>                                | <b>29</b> |
| <b>Appendix 3 - raw test data (16 pages)</b>                            |           |



## 1 Introduction

4 No. meter box enclosures, 4 No. meter box enclosure repair units and 6 No. fire seal units were tested to determine their fire resistance.

## 2 Specimen verification

The specimens were delivered to Chiltern International Fire Ltd (CIFL) on the 6<sup>th</sup> November 2012. CIFL constructed a nominally 140mm thick timber stud/plasterboard clad partition. CIFL then subsequently installed the specimens into the supporting construction.

## 3 Description of supporting construction

The supporting construction comprised a 3000mm wide x 3000mm high x nominally 140mm thick timber stud/plasterboard clad partition, built into a refractory lined steel restraint frame.

The partition framing was comprised of 95mm thick x 46mm wide timber head and base track, studs and noggins, and clad on the unexposed face with a single layer of 15mm thick type F plasterboard, and clad on the exposed face with 2 No. layers of 15mm thick type F plasterboard. The supporting construction was fixed on all edges, and included 14 No. apertures. The apertures were lined with 1 No. layer of 15mm thick type F plasterboard. All plasterboard was fixed to the timber framing with the appropriately sized screws in order to achieve a minimum of 10mm penetration into the timber.

## 4 Description of specimens

Details of the specimens are shown in the drawings supplied by the client in Appendix 1, and CIFL drawings in Appendix 2. All measurements are in mm and the descriptions are written viewing the specimens from the unexposed face unless stated otherwise. The meter box enclosures were labelled as shown in figure 1 of Appendix 2

### 4.1 Meter box enclosures / fire seal units fitted in the partition

(see figure 1 of Appendix 2 for location)

| Specimen reference and product reference | Enclosure material                          | Mounting position – direction of opening       | Unit size (mm)                | Aperture size (mm)  | Lock type             |
|------------------------------------------|---------------------------------------------|------------------------------------------------|-------------------------------|---------------------|-----------------------|
| A1<br>(R17 large)                        | 1.2mm thick stainless steel (powder coated) | Exposed face - opening into the furnace        | 568 wide x 795 high x 68 deep | 475 wide x 700 high | 2No. Tri-key cam lock |
| A2<br>(R17 large)                        | 1.2mm thick stainless steel (powder coated) | Unexposed face - opening away from the furnace | 568 wide x 795 high x 68 deep | 475 wide x 700 high | 2No. Tri-key cam lock |

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| Specimen reference and product reference | Enclosure material                                                            | Mounting position – direction of opening       | Unit size (mm)                 | Aperture size (mm)  | Lock type              |
|------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|---------------------|------------------------|
| B1<br>(R5 large)                         | Door – 1.2mm thick zinc plated steel<br>Frame – 1.0mm thick zinc plated steel | Exposed face - opening into the furnace        | 555 wide x 732 high x 180 deep | 500 wide x 680 high | Tri-key cam lock       |
| B2<br>(R5 large)                         | Door – 1.2mm thick zinc plated steel<br>Frame – 1.0mm thick zinc plated steel | Unexposed face - opening away from the furnace | 555 wide x 732 high x 180 deep | 500 wide x 680 high | Tri-key cam lock       |
| C1<br>(R18 Gas)                          | 1.2mm thick stainless steel (powder coated)                                   | Exposed face - opening into the furnace        | 285 wide x 835 high x 67 deep  | 365 wide x 535 high | Tri-key cam lock       |
| C2<br>(R18 Gas)                          | 1.2mm thick stainless steel (powder coated)                                   | Unexposed face - opening away from the furnace | 285 wide x 835 high x 67 deep  | 365 wide x 535 high | Tri-key cam lock       |
| D1<br>(R5 small)                         | Door – 1.2mm thick zinc plated steel<br>Frame – 1.0mm thick zinc plated steel | Exposed face - opening into the furnace        | 415 wide x 582 high x 180 deep | 360 wide x 530 high | Tri-key cam lock       |
| D2<br>(R5 small)                         | Door – 1.2mm thick zinc plated steel<br>Frame – 1.0mm thick zinc plated steel | Unexposed face - opening away from the furnace | 415 wide x 582 high x 180 deep | 360 wide x 530 high | Tri-key cam lock       |
| E1<br>(Fire seal unit - large)           | 1.2 thick stainless steel (powder coated)                                     | Unexposed face - opening away from the furnace | 450 wide x 925 high x 52 deep  | 399 wide x 792 high | 2No. Tri key cam locks |
| E2<br>(Fire seal unit - large)           | 1.2 thick stainless steel (powder coated)                                     | Exposed face - opening into the furnace        | 450 wide x 925 high x 52 deep  | 399 wide x 792 high | 2No. Tri key cam locks |
| F1<br>(Fire seal unit – small)           | 1.2 thick stainless steel (powder coated)                                     | Unexposed face - opening away from the furnace | 201 wide x 283 high x 52 deep  | 150 wide x 150 high | Tri key cam locks      |

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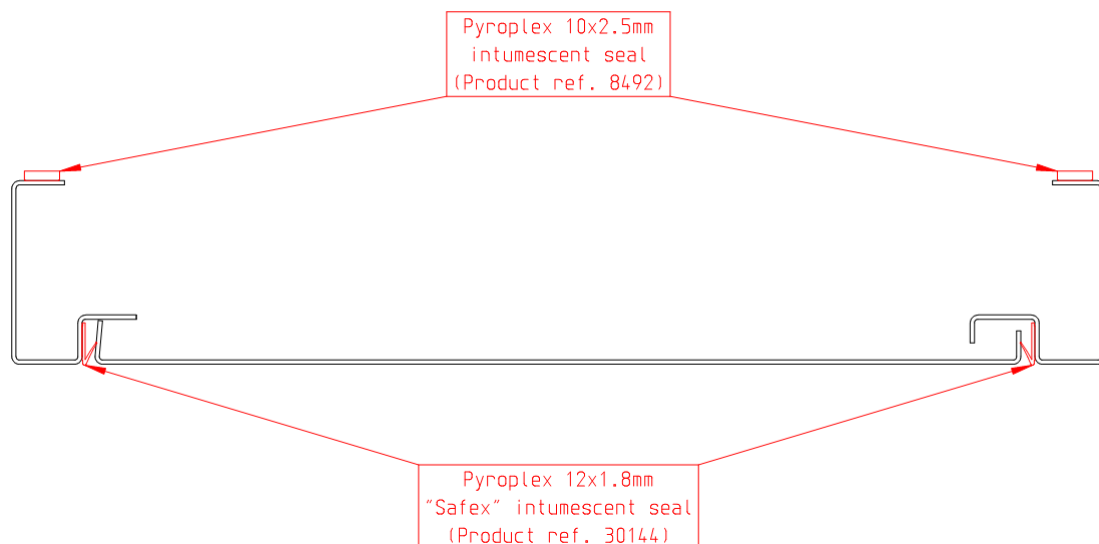
| Specimen reference and product reference | Enclosure material                        | Mounting position – direction of opening       | Unit size (mm)                | Aperture size (mm)  | Lock type         |
|------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------|---------------------|-------------------|
| F2<br>(Fire seal unit – small)           | 1.2 thick stainless steel (powder coated) | Exposed face - opening into the furnace        | 201 wide x 283 high x 52 deep | 150 wide x 150 high | Tri key cam locks |
| G1<br>(Fire seal unit – medium)          | 1.2 thick stainless steel (powder coated) | Exposed face - opening into the furnace        | 371 wide x 798 high           | 320 wide x 665 high | Tri key cam locks |
| G2<br>(Fire seal unit – medium)          | 1.2 thick stainless steel (powder coated) | Unexposed face - opening away from the furnace | 371 wide x 798 high           | 320 wide x 665 high | Tri key cam locks |

#### 4.2 Meter box enclosure fire sealing details

No seals were fitted to the meter box enclosure units or meter box enclosure repair units.

#### 4.3 Fire Seal unit sealing details (Specimens E - G)

Pyroplex seals were fitted as shown below.



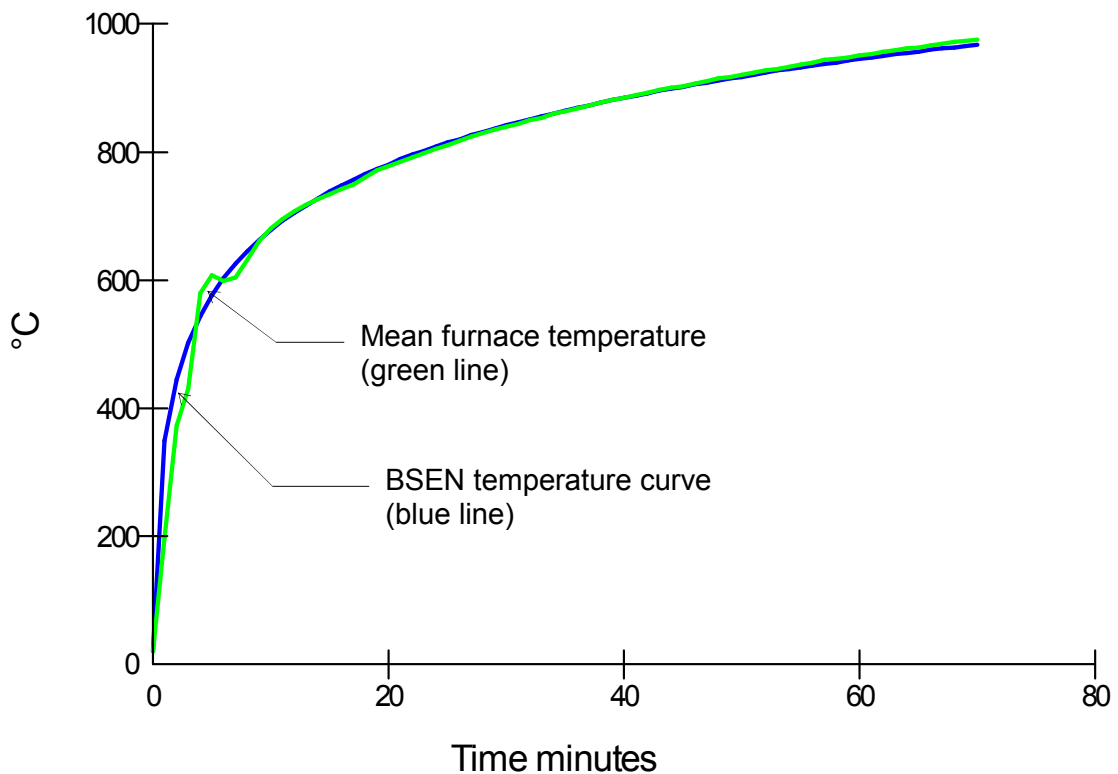
#### 4.4 Specimen fixing detail

Each specimen was fixed to the supporting construction using 2No 40mm wood screws per vertical edge, fitted at equidistant centres.

## 5 Test conditions

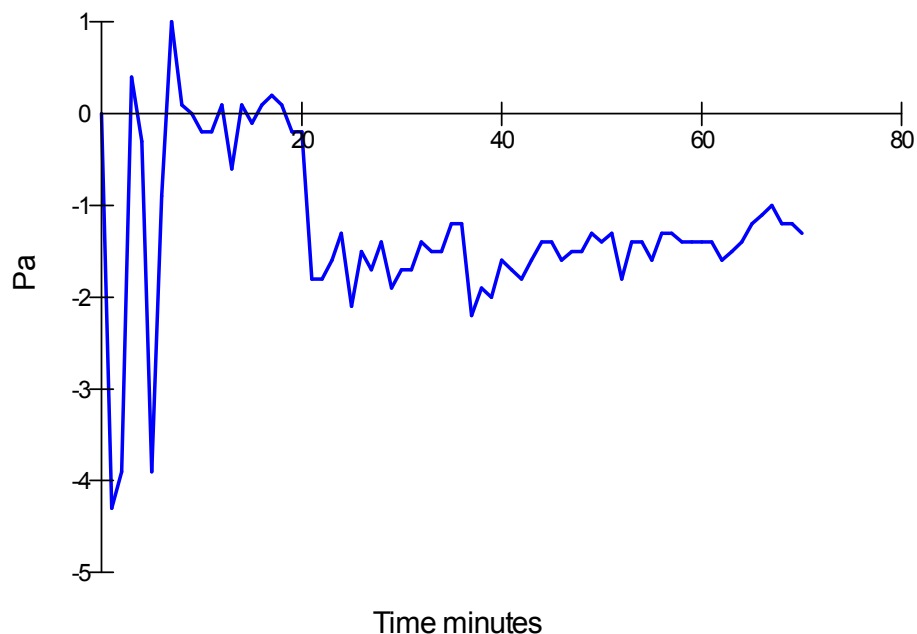
### 5.1 Furnace temperature

The furnace was controlled to follow the temperature/time relationship specified in BSEN 1363: Part 1: 2012 Section 5.1.1 as closely as possible, using the average of nine plate thermometers suitably distributed within the furnace. The temperatures recorded have been tabulated in Appendix 3 and are shown graphically below:



## 5.2 Pressure readings

After the first 5 minutes of the test, the furnace pressure was maintained at  $-1 \pm 5$  Pa and after 10 minutes was maintained at  $-1 \pm 3$  Pa with respect to atmosphere, at a point 0.5m from the furnace floor level. Therefore equating to 17.7 Pa at the head of the upper enclosures. The pressure readings have been tabulated in Appendix 3 and are shown graphically below:



## 5.3 Ambient temperature

The ambient temperature of the test area at commencement of test was 14°C.

## 5.4 Thermocouple positions (see Appendix 2 figure 2)

The temperature of the unexposed face of each meter box enclosure unit and fire seal unit was monitored by means of thermocouples fixed to the plasterboard of the supporting construction, 25mm from the unit / aperture, one thermocouple fixed to the unit 25mm from the plasterboard of the supporting construction, and three thermocouples fixed to the leaf of the unit.

Graphs of each meter box / fire seal unit can be found in Section 10.  
The temperatures recorded have been tabulated in the Appendix 3.

## 6 Observations

All comments relate to the unexposed face unless otherwise specified, (reference to Appendix 2 - figure 1).

| Time<br>(minutes) | Comments                                                                                                      |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| 0.00              | Test started.                                                                                                 |
| 01.00             | There is smoke issuing from E2 and G1.                                                                        |
| 01.48             | There is smoke issuing from the perimeter of all of the specimens except from E1 and G2.                      |
| 02.37             | There is discolouration across the top half face of E2 and G1.                                                |
| 03.06             | There is an increase in the level of smoke issuing from the perimeter of all specimens except from E1 and G2. |
| 03.41             | There is discolouration across the entire face of E2 and G1.                                                  |
| 04.18             | There is discolouration and smoke issuing across the face of E2 and G1.                                       |
| 04.52             | There is discolouration at the perimeter of B2 and D2.                                                        |
| 05.37             | There is discolouration across the face of F2.                                                                |
| 06.16             | There is discolouration from the perimeter of B1 and D1.                                                      |
| 06.57             | The seal at the perimeter of E1 and G2 is expanding out.                                                      |
| 08.41             | There is an increase in the level of discolouration and smoke issuing from all specimens.                     |
| 11.52             | The seal at the perimeter of E2 and G1 is expanding out.                                                      |
| 13.15             | The powder coating at the perimeter of B1, B2 and D2 is bubbling / blistering.                                |
| 14.17             | There is intermittent flaming from the top of A2.                                                             |
| 15.38             | There is continuous flaming from the top of A2, thereby constituting <b>integrity failure</b> .               |
| 18.33             | There is a glow visible from the perimeter of B1 and at the top half perimeter of E2 and G1.                  |
| 18.35             | A roving thermo couple test was performed on the centre of B1, where a reading of 212°C was taken.            |
| 20.01             | There is a glow visible at the top half perimeter of D1.                                                      |

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- 22.24 A cotton pad integrity test was performed at the left edge of B1, no failure.
- 23.10 The powder coating at the perimeter of B1, B2, D1 and D2 is peeling away.
- 23.55 A cotton pad integrity test was performed on the top right corner of D1, no failure.
- 25.09 A cotton pad integrity test was performed on the top right corner of E2, which resulted in ignition of the cotton pad, thereby constituting **integrity failure**.
- 26.05 A cotton pad integrity test was performed on the bottom right corner of G1, which resulted in ignition of the cotton pad, thereby constituting **integrity failure**.
- 26.44 There is a glow visible from the top of C1.
- 27.20 A cotton pad integrity test was performed on the top left corner of C1, no failure.
- 28.20 A cotton pad integrity test was performed on the top right corner of D1, which resulted in ignition of the cotton pad, thereby constituting **integrity failure**.
- 29.15 A cotton pad integrity test was performed on the top left corner of B1, no failure.
- 29.29 There is an increase in the level of discolouration across the surface of all boxes.
- 31.30 A roving thermocouple test was performed on the centre of A1, where a reading of 240°C was recorded.
- 34.30 A cotton pad integrity test was performed on the top left of B1, no failure.
- 34.54 A cotton pad integrity test was performed on F2, which resulted in ignition of the cotton pad, thereby constituting **integrity failure**.
- 39.05 A cotton pad integrity test was performed on the top of B1, no failure.
- 42.10 A cotton pad integrity test was performed on the top of B1, no failure.
- 44.35 A cotton pad integrity test was performed on the bottom of B1, no failure.
- 47.18 A cotton pad integrity test was performed on the top of B1, no failure.
- 48.30 A cotton pad integrity test was performed on the top of C1, no failure.
- 49.07 There is a glow visible from the perimeter of A1, B1 and C1.

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- 50.13 A cotton pad integrity test was performed on the top of B1, which resulted in ignition of the cotton pad, thereby constituting **integrity failure**.
- 51.11 A cotton pad integrity test was performed on the top of A1, no failure.
- 51.35 A cotton pad integrity test was performed on the top of C1, no failure.
- 55.50 A cotton pad integrity test was performed on the top of A1, no failure.
- 56.40 A cotton pad integrity test was performed on top of C1, no failure.
- 57.40 A cotton pad integrity test was performed on the top of A1, no failure.
- 59.00 A cotton pad integrity test was performed on the top of C1, no failure.
- 59.50 A cotton pad integrity test was performed on the top of A1, no failure.
- 60.15 A cotton pad integrity test was performed on the top of C1, no failure.
- 62.08 A cotton pad integrity test was performed on the top of A1, no failure.
- 63.20 A cotton pad integrity test was performed on the top of C1, no failure.
- 63.35 There is intermittent flaming from the bottom of E2 thereby constituting **further integrity failure**.
- 64.40 A cotton pad integrity test was performed on the top of A1, no failure.
- 66.30 A cotton pad integrity test was performed on the top of A1, no failure.
- 68.00 Test terminated.

## 7 Expression of results

| Specimen test reference | Integrity                     |                            |                            | Insulation               |
|-------------------------|-------------------------------|----------------------------|----------------------------|--------------------------|
|                         | Cotton pad                    | Gap gauge                  | Continuous flaming         |                          |
| A1                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 29 (twenty nine) minutes |
| A2                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 15 (fifteen) minutes       | 11 (eleven) minutes      |
| B1                      | 50 (fifty) minutes ***        | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 18 (eighteen) minutes ** |
| B2                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 5 (five) minutes         |
| C1                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 8 (eight) minutes        |
| C2                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 8 (eight) minutes        |
| D1                      | 28 (twenty eight) minutes *** | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 12 (twelve) minutes      |
| D2                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 7 (seven) minutes        |
| E1                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 5 (five) minutes         |
| E2                      | 25 (twenty five) minutes ***  | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 6 (six) minutes          |
| F1                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 6 (six) minutes          |
| F2                      | 34 (thirty four) minutes ***  | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 2 (two) minutes          |
| G1                      | 26 (twenty six) minutes ***   | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 4 (four) minutes         |
| G2                      | 68 (sixty eight) minutes *    | 68 (sixty eight) minutes * | 68 (sixty eight) minutes * | 2 (two) minutes          |

\* Failure criteria was not achieved upon termination of the test at 68 minutes

\*\* Roving thermocouple

\*\*\* When classified under BSEN 13501: 2007+A1: 2009, this value of integrity failure will be disregarded, as the specimen was deemed not to have achieved insulation performance at the time of integrity failure

## 8 Limitations

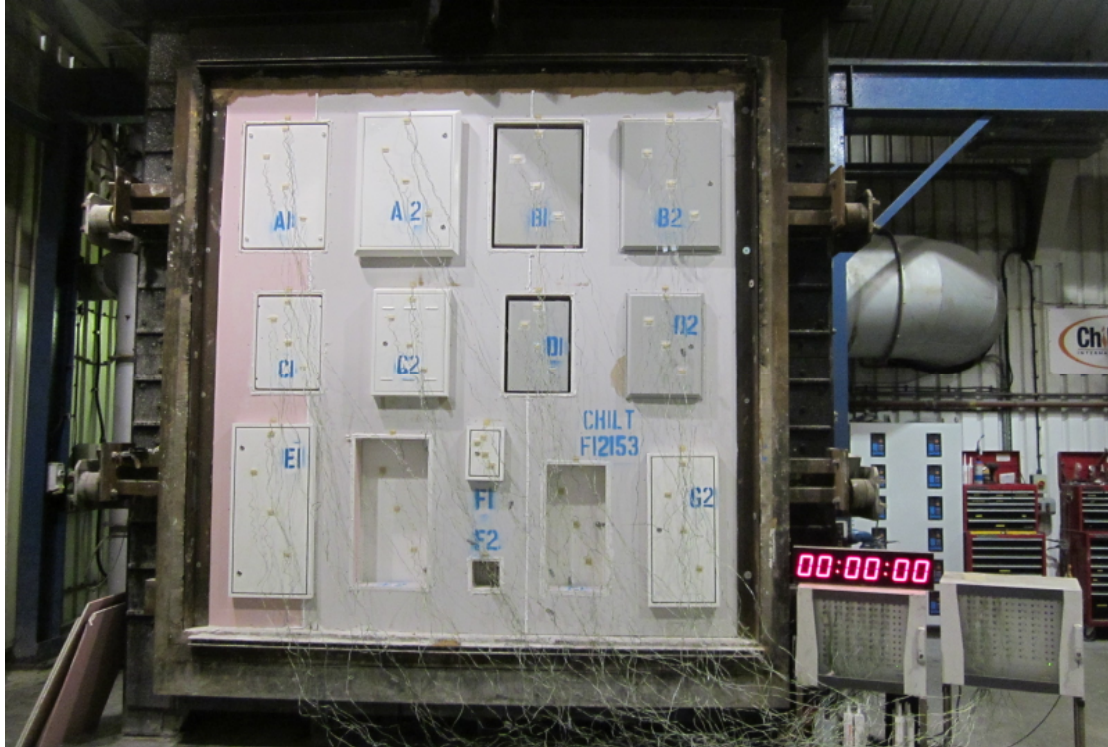
The results only relate to the behaviour of the element of construction under the particular conditions of test; they are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. CIFL will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

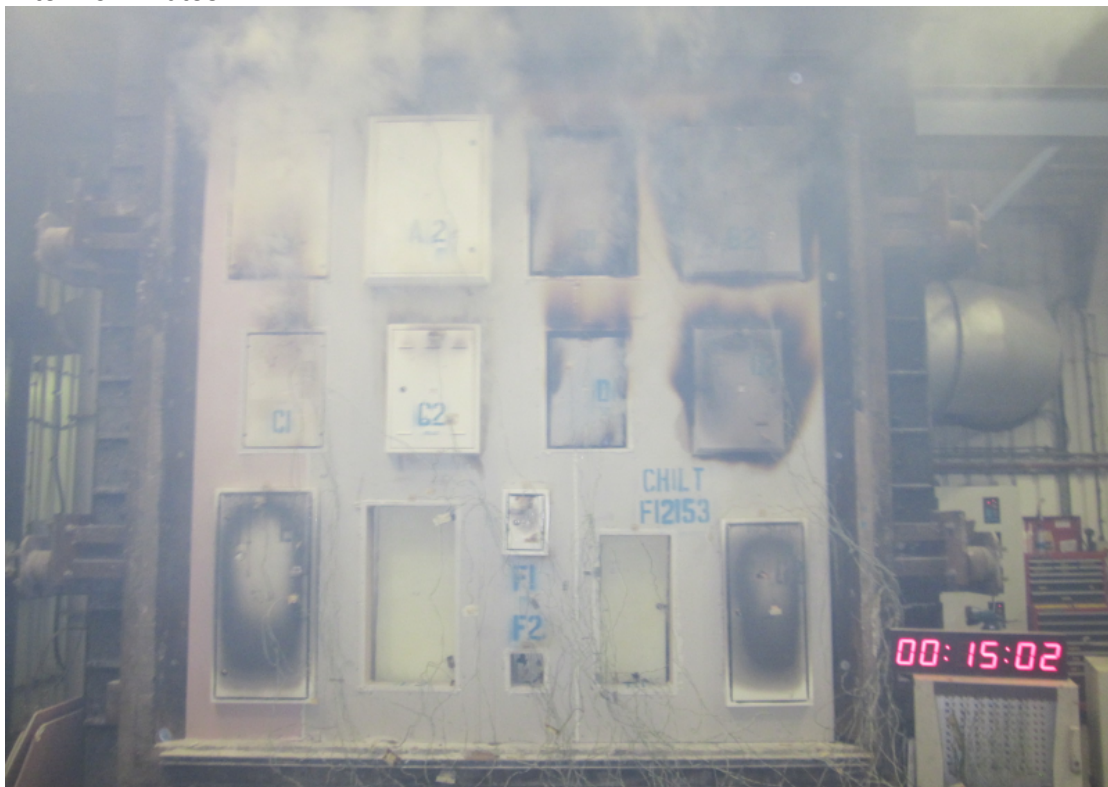
|                       |                                                                                    |                                                                                      |
|-----------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Signature:</b>     |  |  |
| <b>Name:</b>          | Robert Axe                                                                         | Vincent Kerrigan                                                                     |
| <b>Title:</b>         | Deputy Section Leader – Fire Resistance                                            | Technical Manager                                                                    |
| <b>Date of issue:</b> | 24.01.2013                                                                         | 24-01-2013                                                                           |

## 9 Photographs

Unexposed face at start of test



After 15 minutes



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After 30 minutes



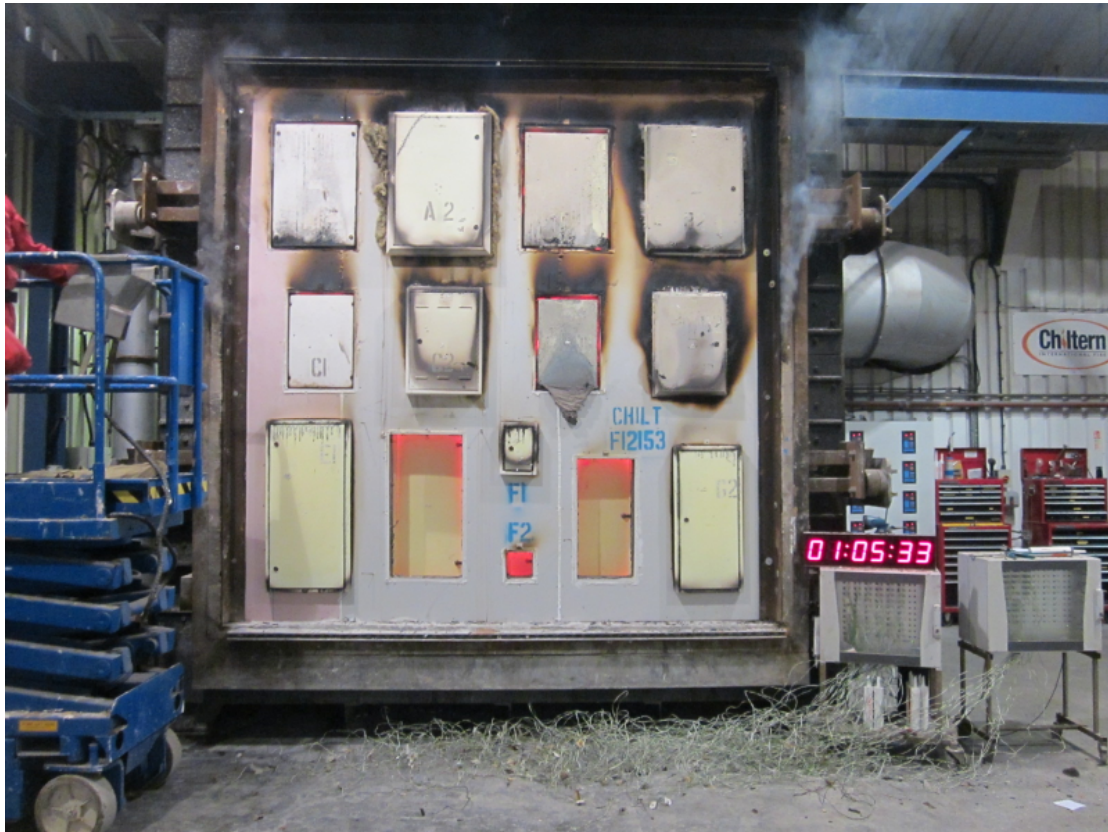
After 45 minutes



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After 65 minutes



Exposed face – post test

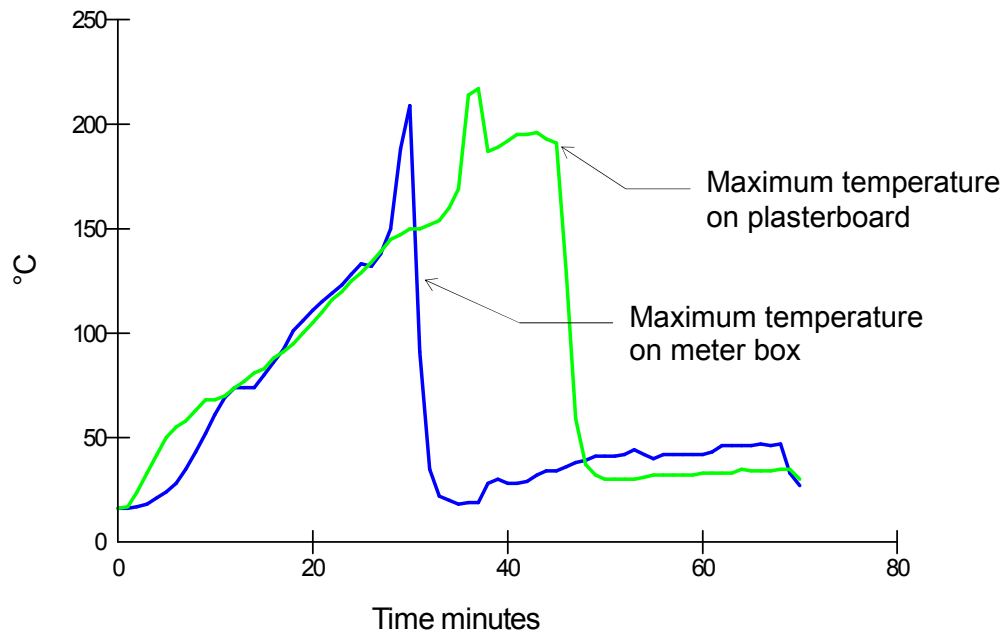


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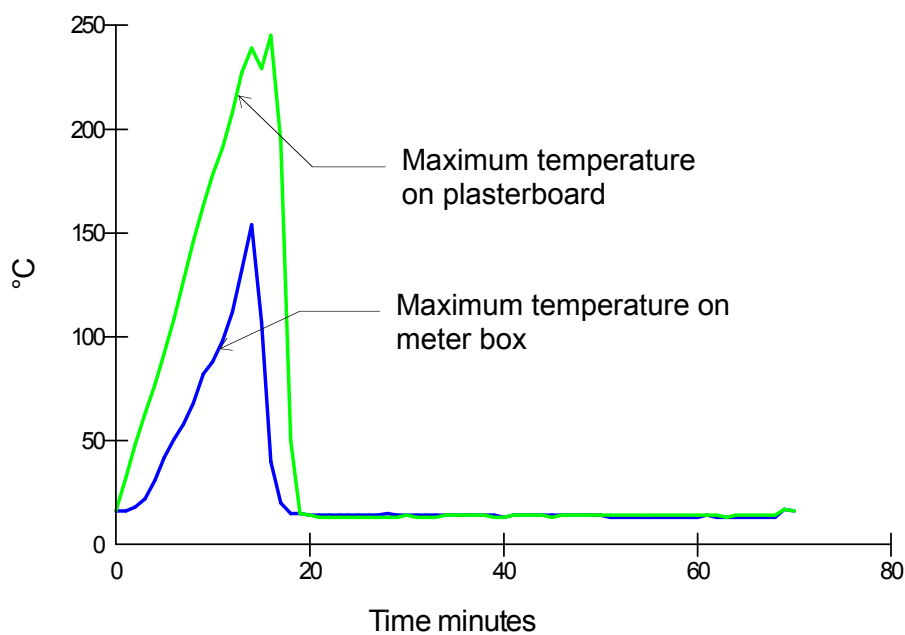
## 10 Graphs

### Unexposed face temperature curves

#### A1

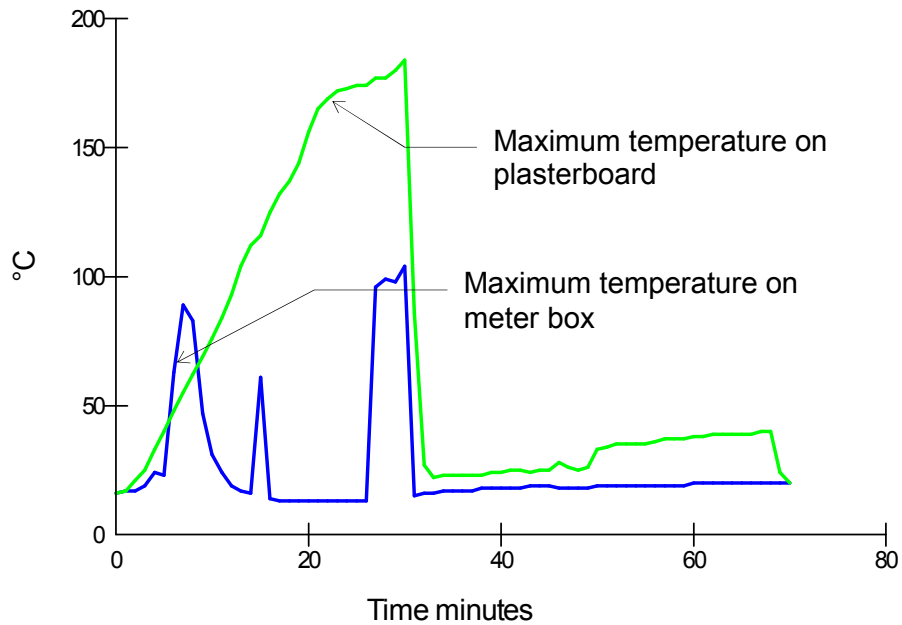


#### A2

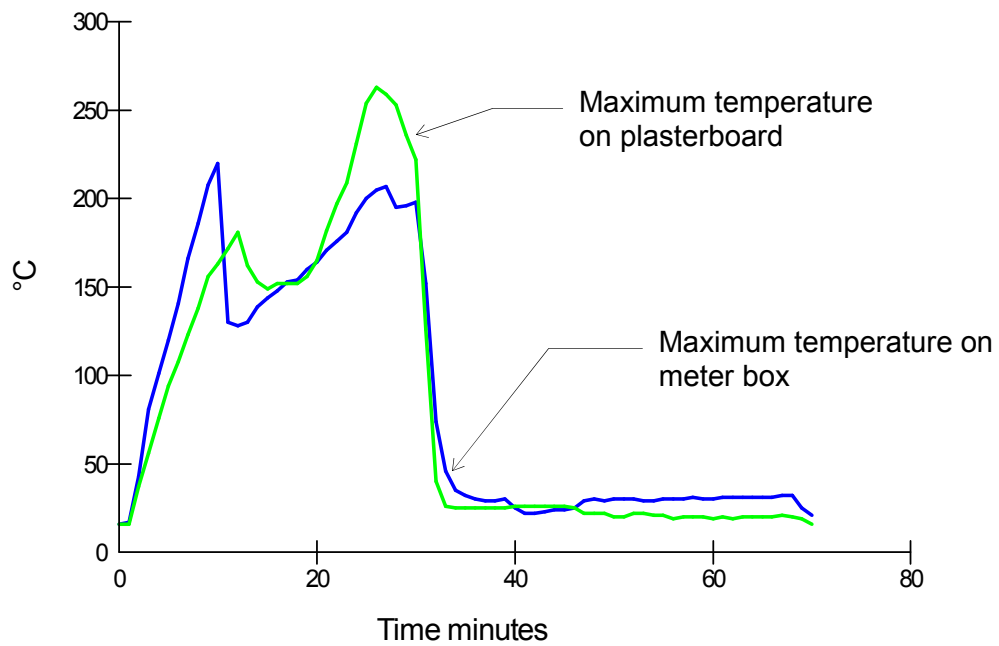


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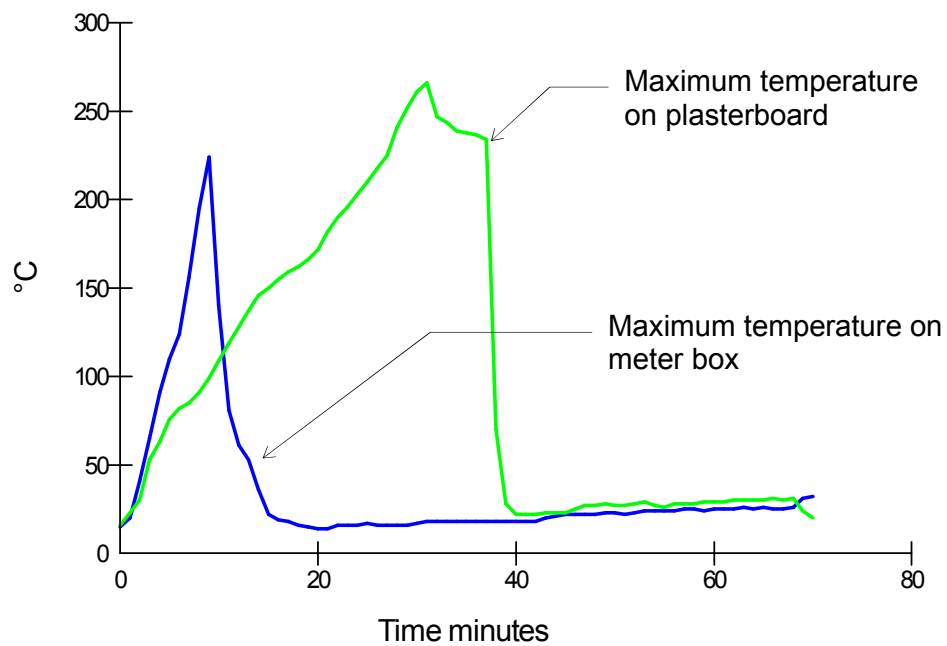
## B1



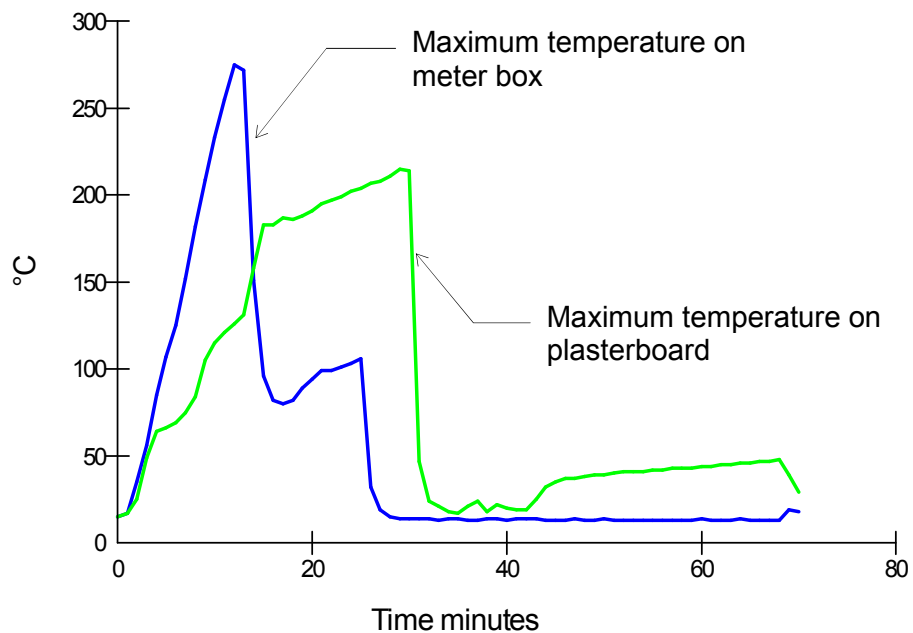
## B2



## C1



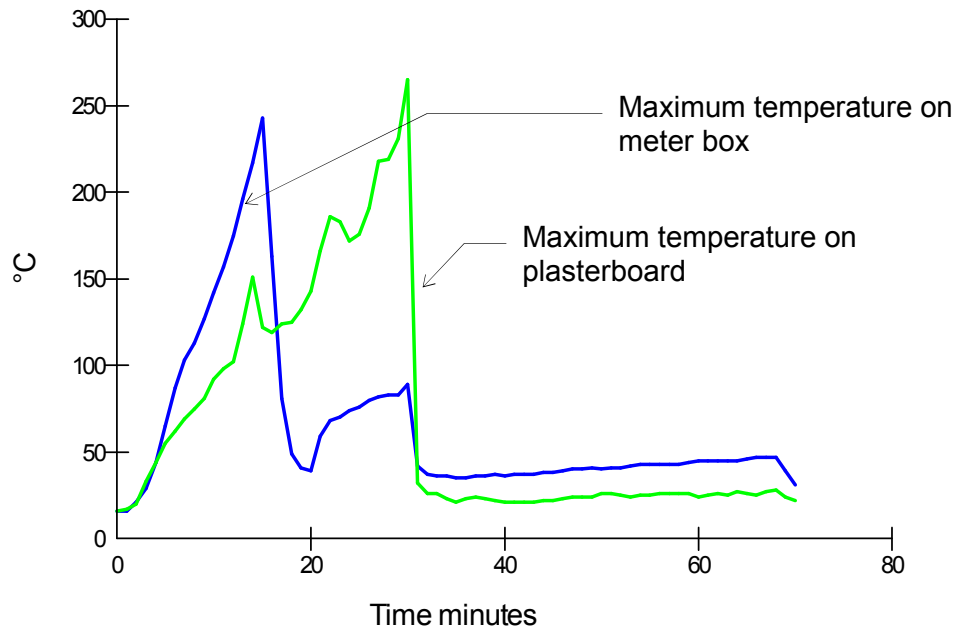
## C2



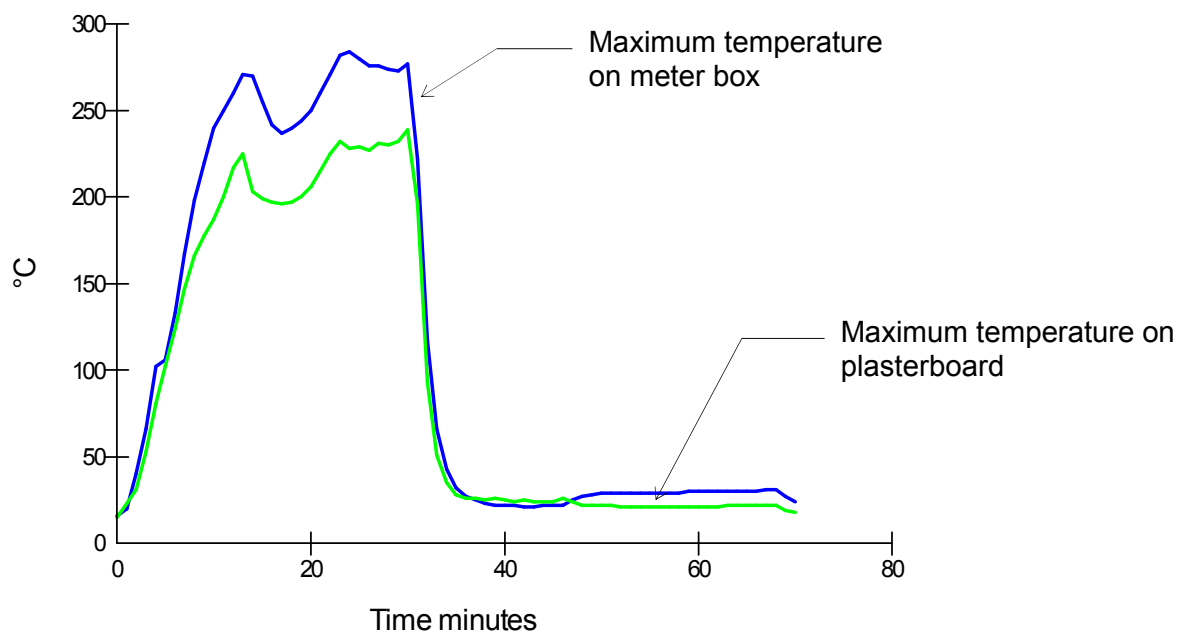
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## D1

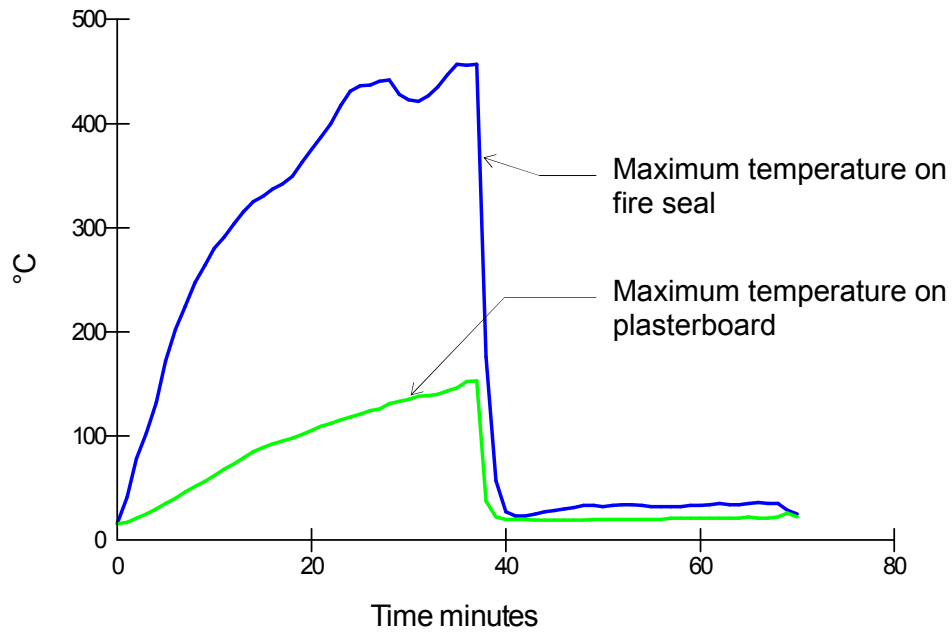


## D2

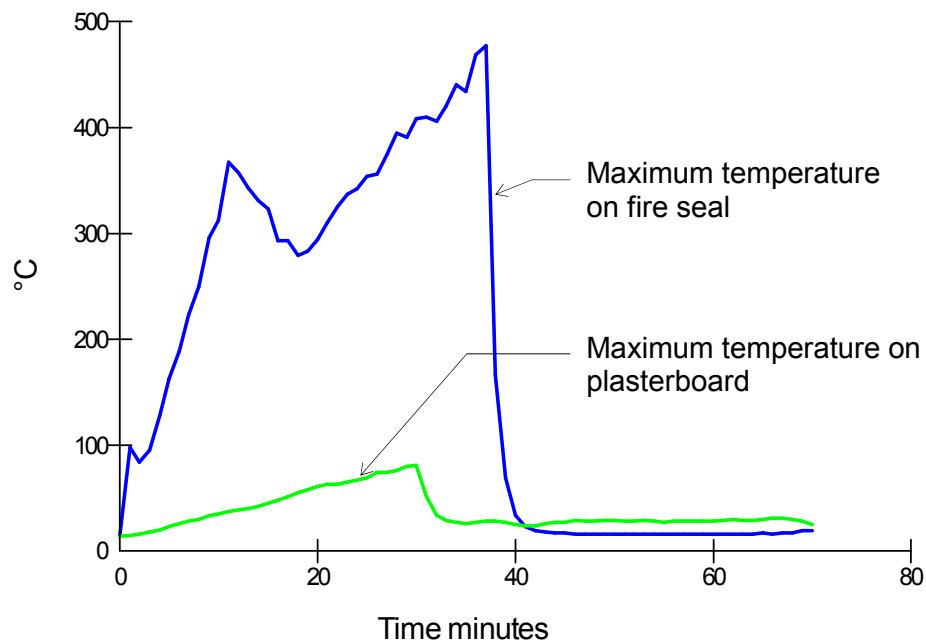


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## E1

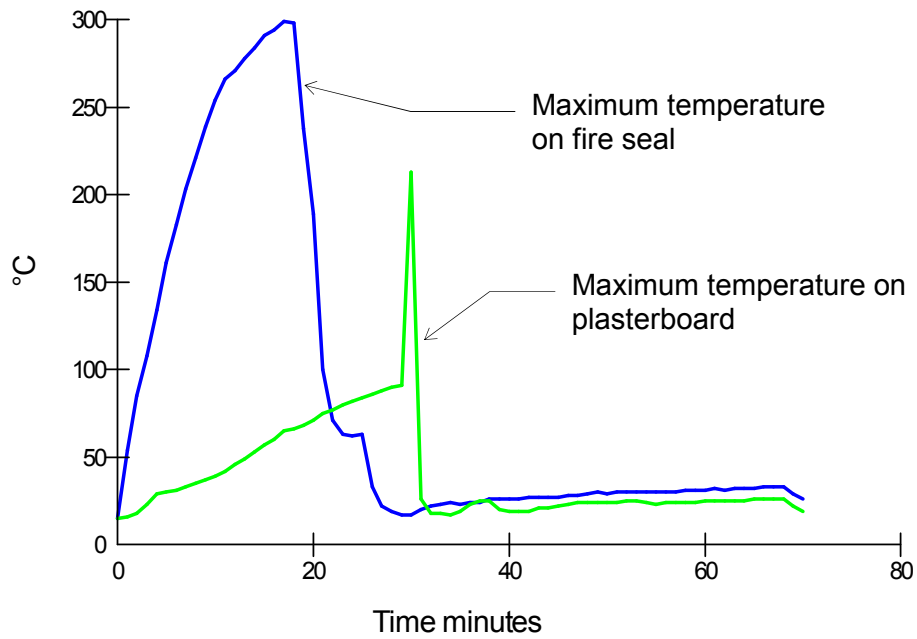


## E2

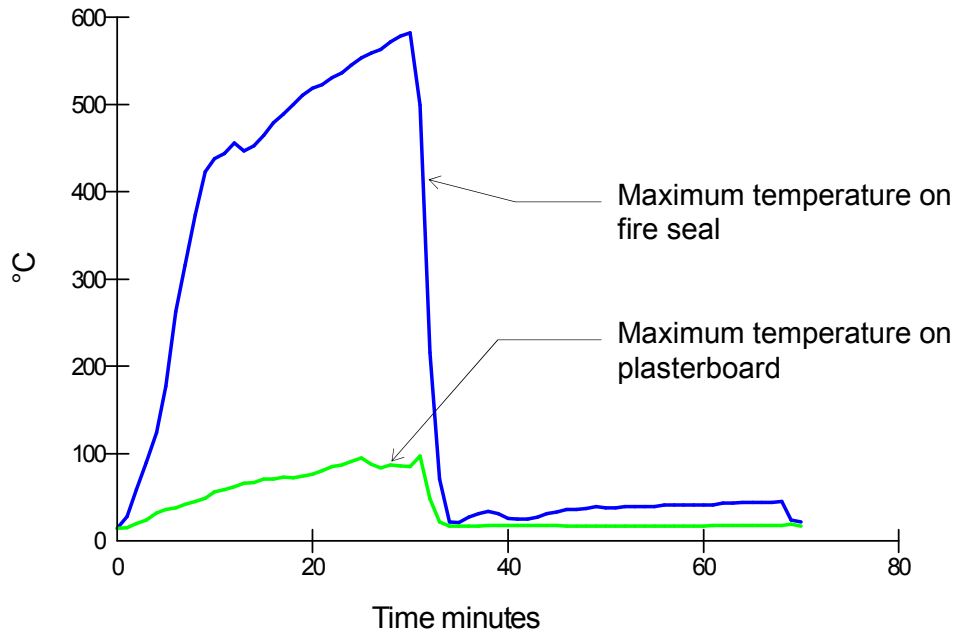


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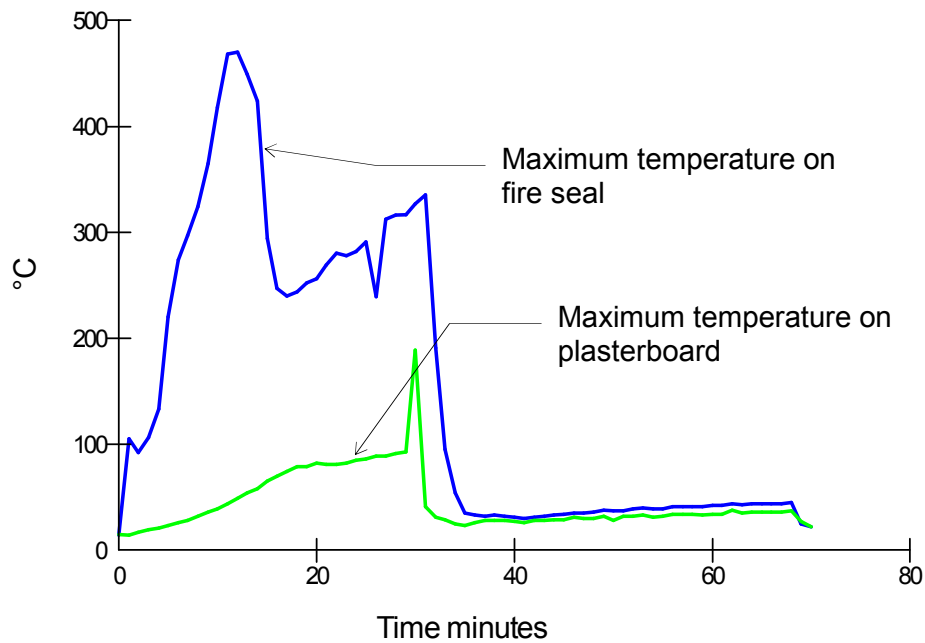
## F1



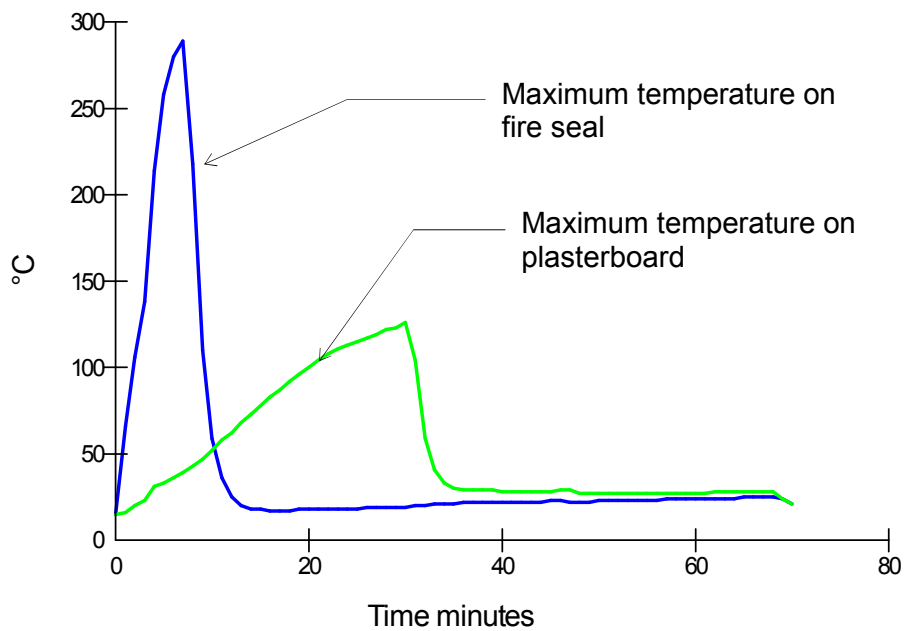
## F2



## G1



## G2

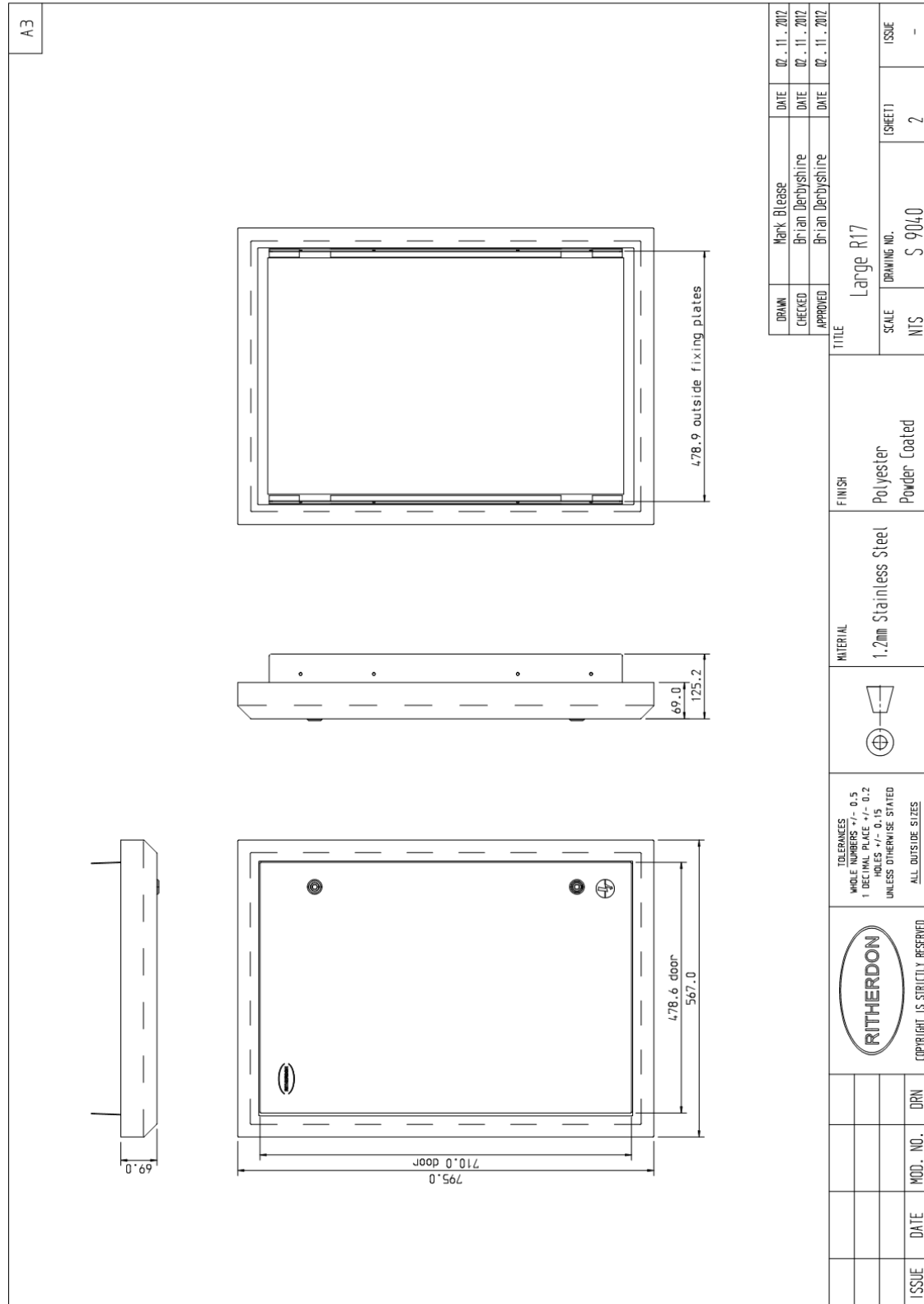


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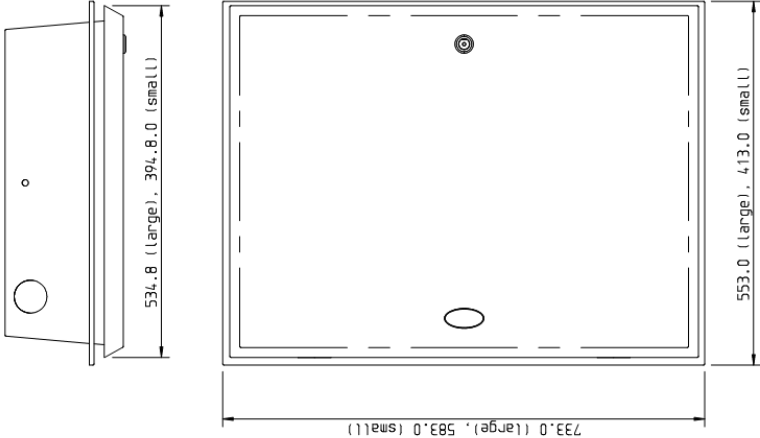
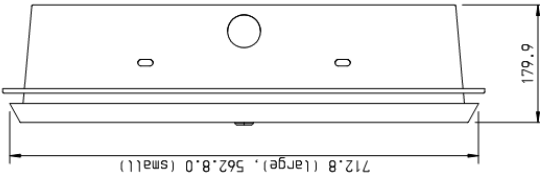
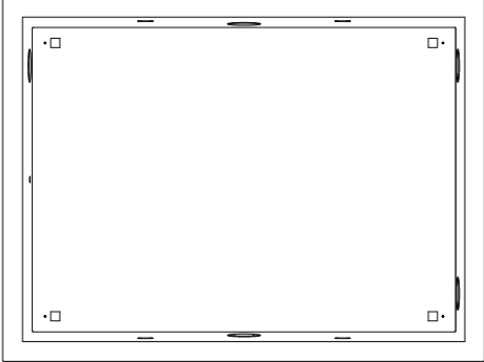
## Appendix 1 – clients drawings

### Meter box enclosure R17 large



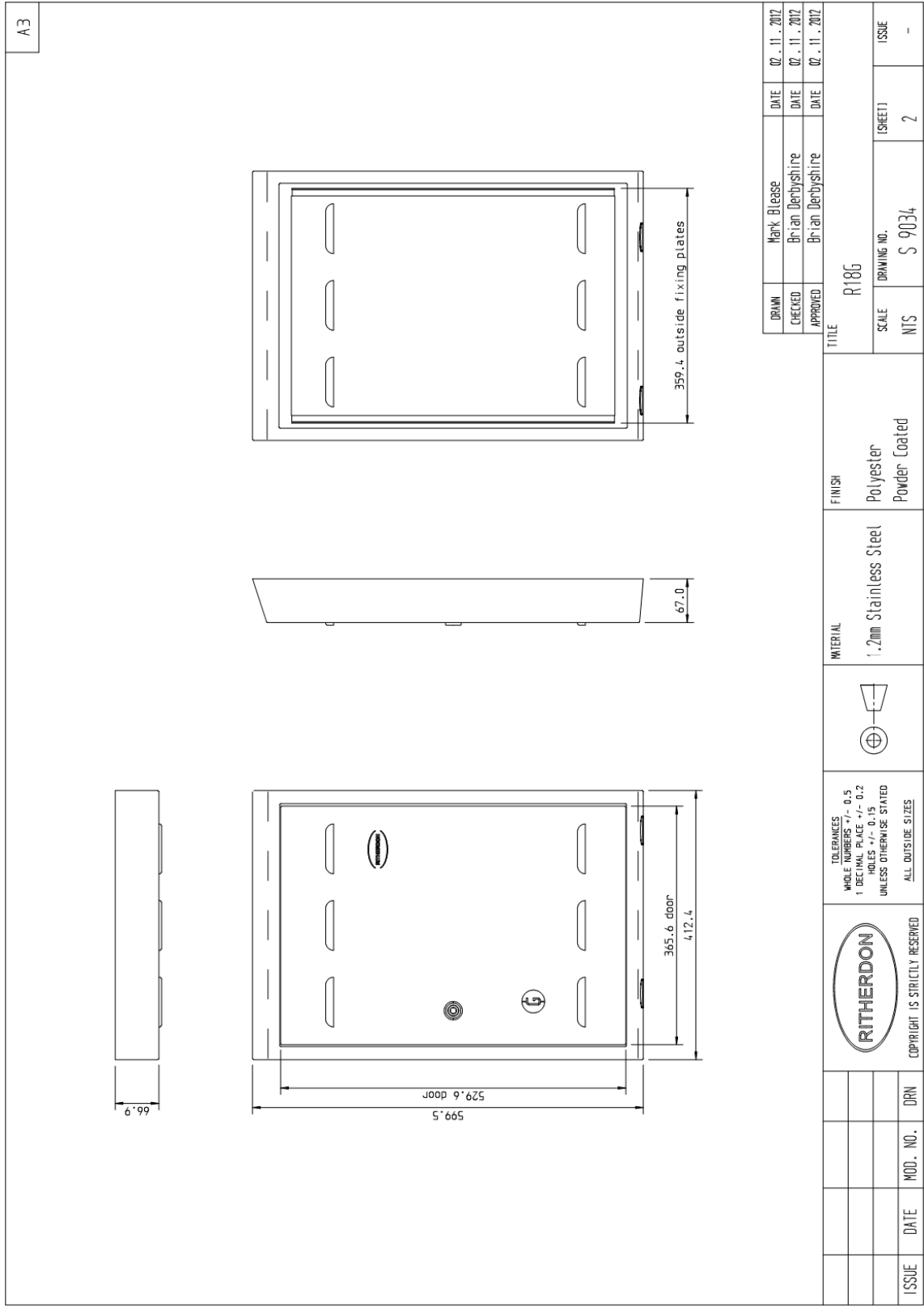
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## Meter box enclosure R5 large and small

|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
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| A3                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |  |                                         |  |                                                                                                                        | <table border="1"> <tr> <td>DRAWN</td> <td>Mark Blease</td> <td>DATE</td> <td>02.11.2012</td> </tr> <tr> <td>CHECKED</td> <td>Brian Derbyshire</td> <td>DATE</td> <td>02.11.2012</td> </tr> <tr> <td>APPROVED</td> <td>Brian Derbyshire</td> <td>DATE</td> <td>02.11.2012</td> </tr> </table> |            | DRAWN | Mark Blease | DATE | 02.11.2012 | CHECKED | Brian Derbyshire | DATE | 02.11.2012 | APPROVED | Brian Derbyshire | DATE | 02.11.2012 |
| DRAWN                                                                                                                                                                                                                                                                                                                                     | Mark Blease                                                                                                            |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        | DATE                                                                                                                                                                                                                                                                                          | 02.11.2012 |       |             |      |            |         |                  |      |            |          |                  |      |            |
| CHECKED                                                                                                                                                                                                                                                                                                                                   | Brian Derbyshire                                                                                                       |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        | DATE                                                                                                                                                                                                                                                                                          | 02.11.2012 |       |             |      |            |         |                  |      |            |          |                  |      |            |
| APPROVED                                                                                                                                                                                                                                                                                                                                  | Brian Derbyshire                                                                                                       | DATE                                                                                  | 02.11.2012              |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| <table border="1"> <tr> <td colspan="2">TITLE</td> <td colspan="2">R5 - Large/Small</td> </tr> <tr> <td>SCALE</td> <td>DRAWING NO.</td> <td>(SHEET)</td> <td>ISSUE</td> </tr> <tr> <td>NTS</td> <td>S 9033</td> <td>1</td> <td>-</td> </tr> </table>                                                                                      |                                                                                                                        | TITLE                                                                                 |                         | R5 - Large/Small                                                                     |                                         | SCALE                                                                              | DRAWING NO.                                                                                                            | (SHEET)                                                                                                                                                                                                                                                                                       | ISSUE      | NTS   | S 9033      | 1    | -          |         |                  |      |            |          |                  |      |            |
| TITLE                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        | R5 - Large/Small                                                                      |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| SCALE                                                                                                                                                                                                                                                                                                                                     | DRAWING NO.                                                                                                            | (SHEET)                                                                               | ISSUE                   |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| NTS                                                                                                                                                                                                                                                                                                                                       | S 9033                                                                                                                 | 1                                                                                     | -                       |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| <table border="1"> <tr> <td>FINISH</td> <td>Polyester Powder Coated</td> </tr> <tr> <td>MATERIAL</td> <td>Box: 1.2mm Zintec<br/>Door: 1.0mm Zintec</td> </tr> <tr> <td>TOLERANCES</td> <td>WHOLE NUMBERS +/- 0.5<br/>1 DECIMAL PLACE +/- 0.2<br/>FRACTIONS +/- 0.15<br/>UNLESS OTHERWISE STATED<br/>ALL OUTSIDE SIZES</td> </tr> </table> |                                                                                                                        | FINISH                                                                                | Polyester Powder Coated | MATERIAL                                                                             | Box: 1.2mm Zintec<br>Door: 1.0mm Zintec | TOLERANCES                                                                         | WHOLE NUMBERS +/- 0.5<br>1 DECIMAL PLACE +/- 0.2<br>FRACTIONS +/- 0.15<br>UNLESS OTHERWISE STATED<br>ALL OUTSIDE SIZES |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| FINISH                                                                                                                                                                                                                                                                                                                                    | Polyester Powder Coated                                                                                                |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| MATERIAL                                                                                                                                                                                                                                                                                                                                  | Box: 1.2mm Zintec<br>Door: 1.0mm Zintec                                                                                |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| TOLERANCES                                                                                                                                                                                                                                                                                                                                | WHOLE NUMBERS +/- 0.5<br>1 DECIMAL PLACE +/- 0.2<br>FRACTIONS +/- 0.15<br>UNLESS OTHERWISE STATED<br>ALL OUTSIDE SIZES |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| <table border="1"> <tr> <td colspan="2">  </td> <td colspan="2">COPYRIGHT IS STRICTLY RESERVED</td> </tr> <tr> <td>ISSUE</td> <td>DATE</td> <td>MOD. NO.</td> <td>DRN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>         |                                                                                                                        |  |                         | COPYRIGHT IS STRICTLY RESERVED                                                       |                                         | ISSUE                                                                              | DATE                                                                                                                   | MOD. NO.                                                                                                                                                                                                                                                                                      | DRN        |       |             |      |            |         |                  |      |            |          |                  |      |            |
|                                                                                                                                                                                                                                                      |                                                                                                                        | COPYRIGHT IS STRICTLY RESERVED                                                        |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
| ISSUE                                                                                                                                                                                                                                                                                                                                     | DATE                                                                                                                   | MOD. NO.                                                                              | DRN                     |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |
|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |                                                                                       |                         |                                                                                      |                                         |                                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                               |            |       |             |      |            |         |                  |      |            |          |                  |      |            |

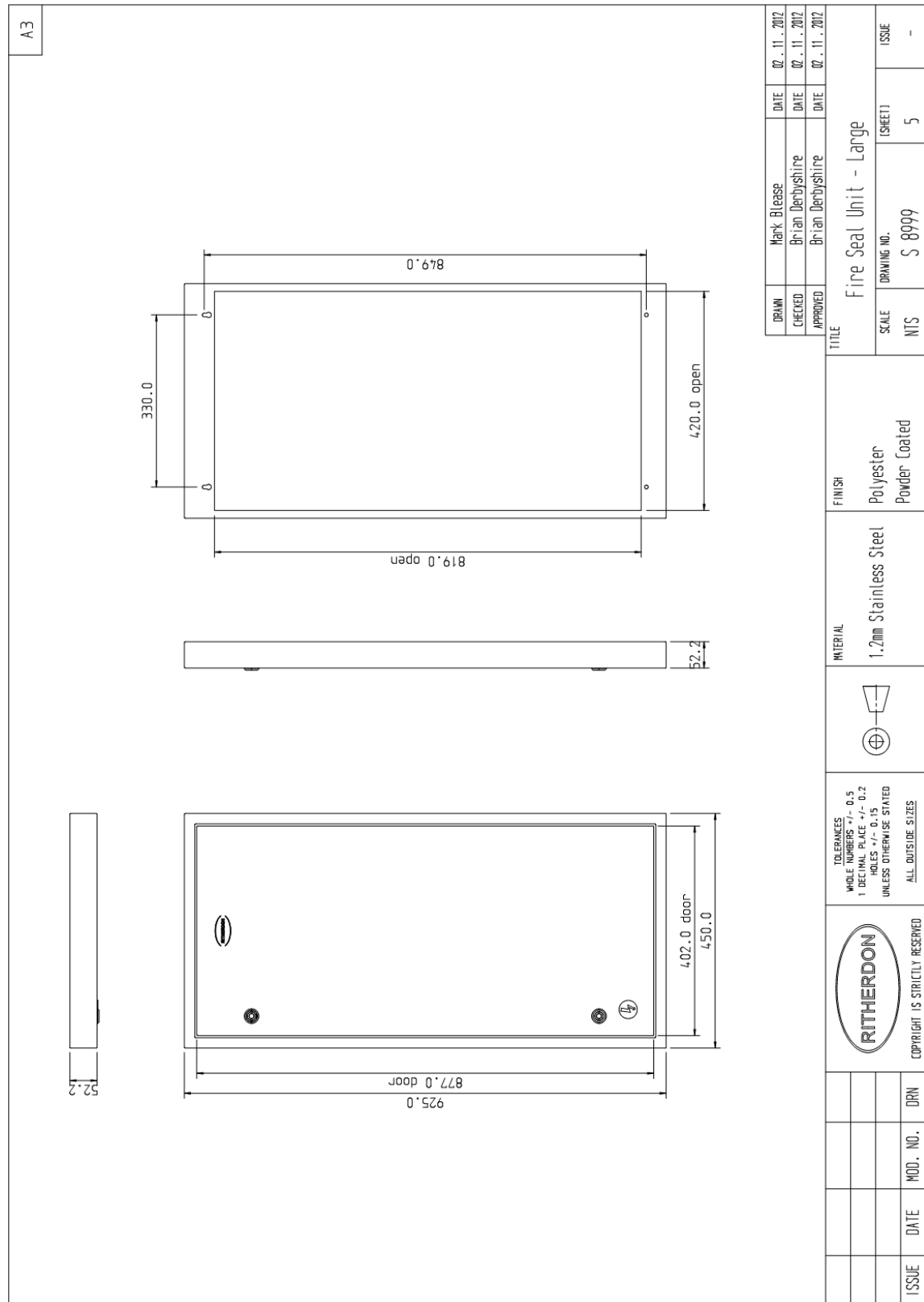
The legal validity of this report can only be claimed on presentation of the complete report.

# Meter box R18 gas



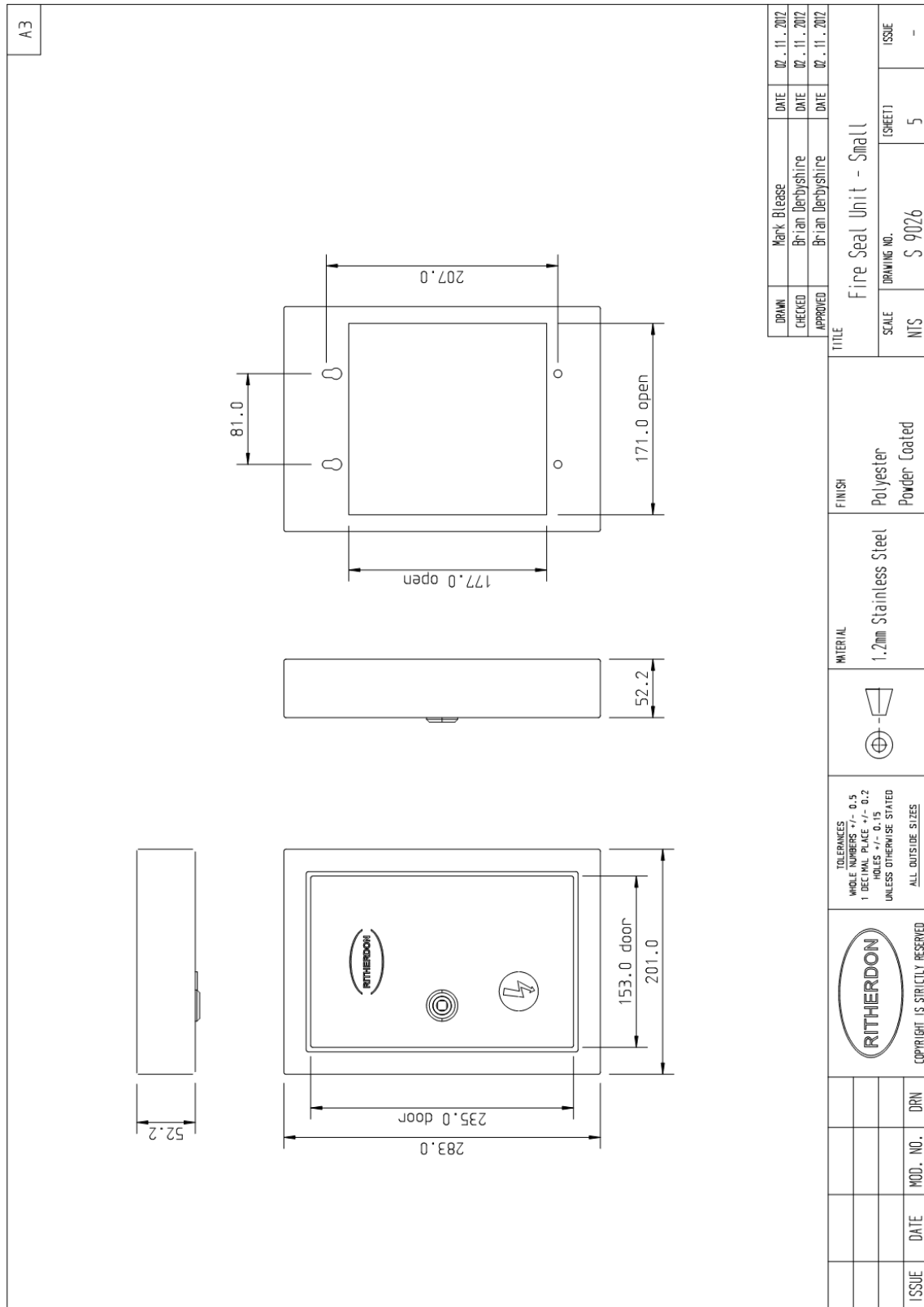
The legal validity of this report can only be claimed on presentation of the complete report.

# Fire Seal Unit - large



The legal validity of this report can only be claimed on presentation of the complete report.

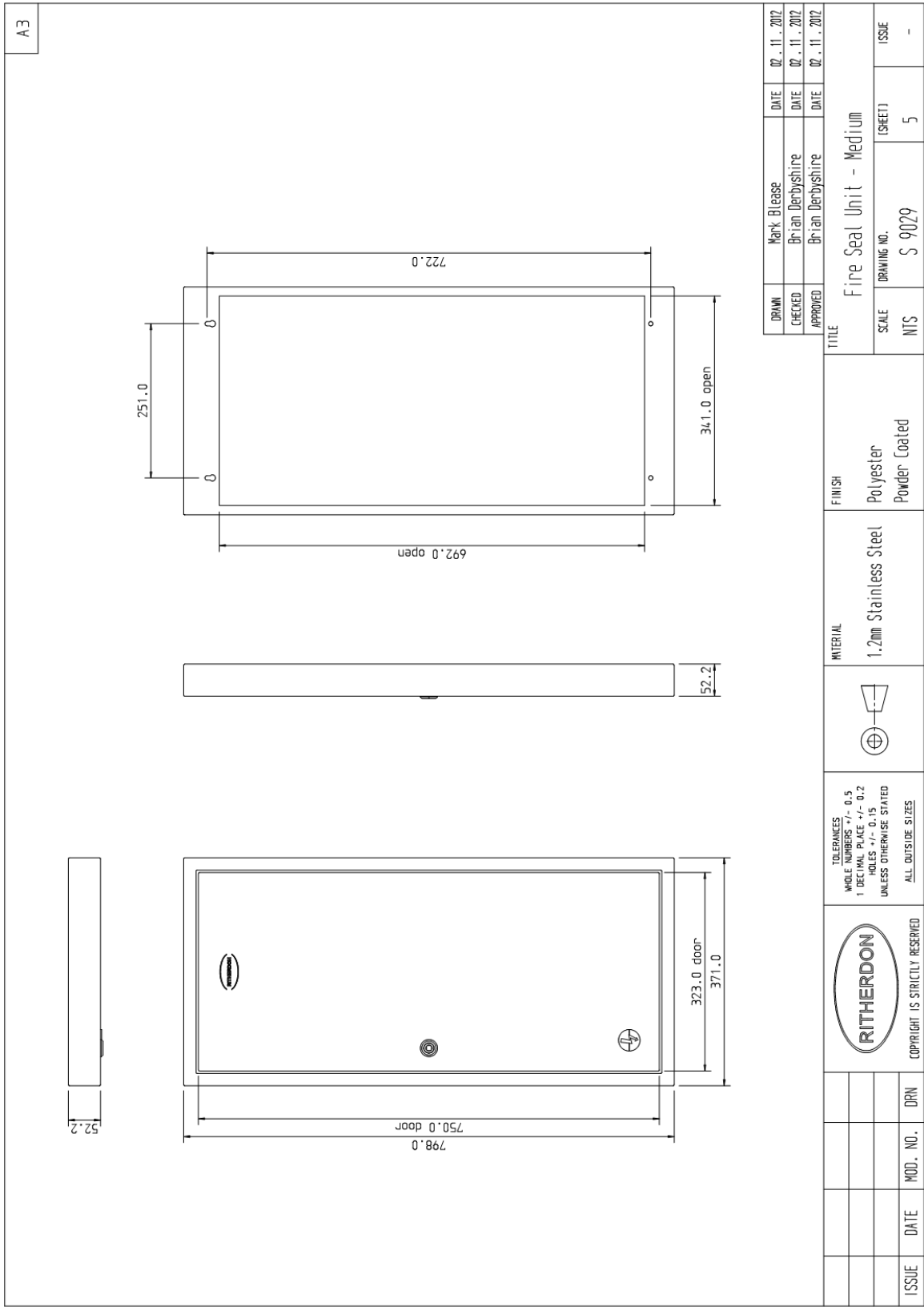
## Fire seal small



The legal validity of this report can only be claimed on presentation of the complete report.

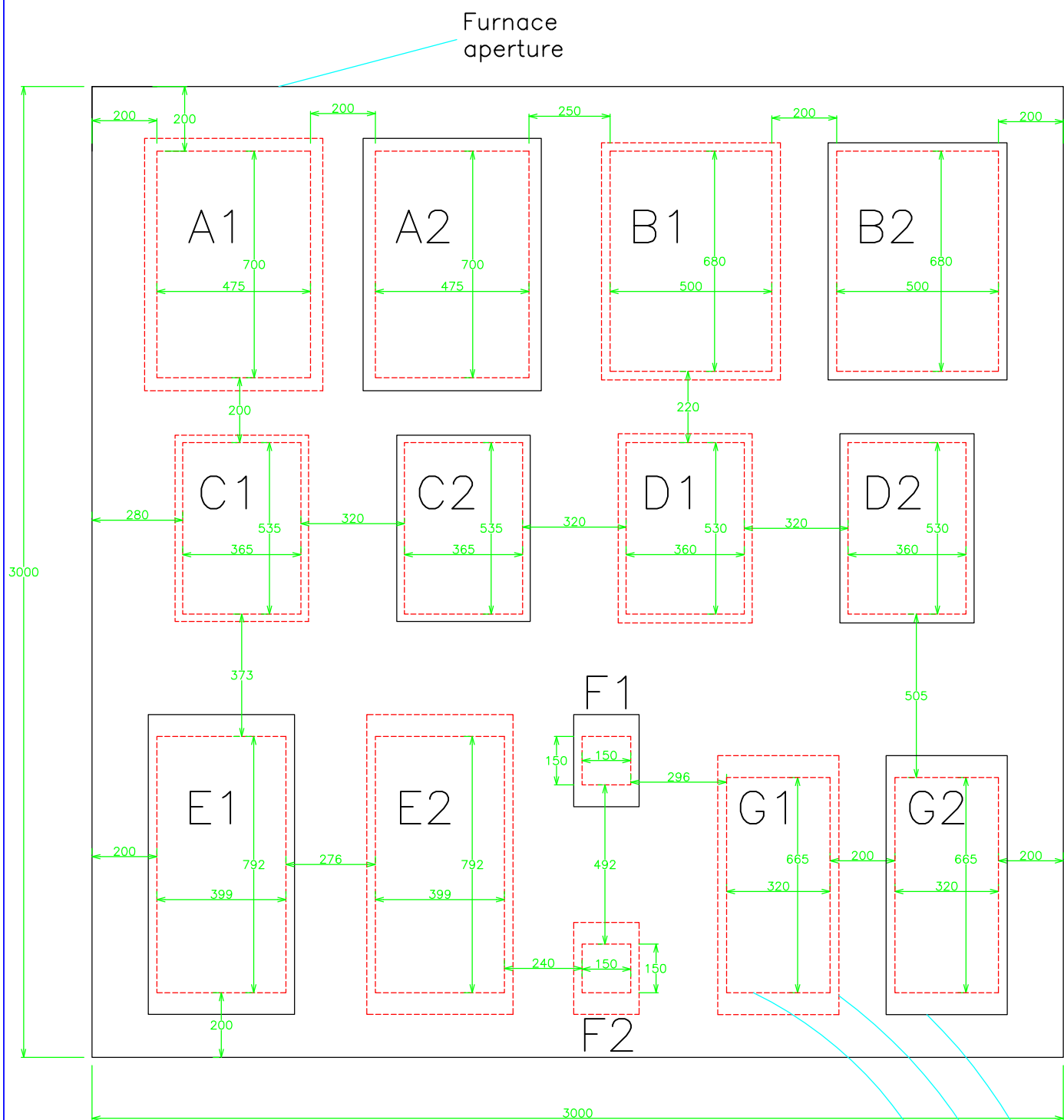


Fire seal medium



The legal validity of this report can only be claimed on presentation of the complete report.

## Appendix 2 – figures 1 and 2



Chiltern House, Stocking Lane, Hughenden Valley  
 High Wycombe, Buckinghamshire, HP14 4ND, UK.  
 Tel: +44 (0)1494 569800 Fax: +44 (0)1494 564895

Title Unexposed face elevation

(All dimensions in mm)

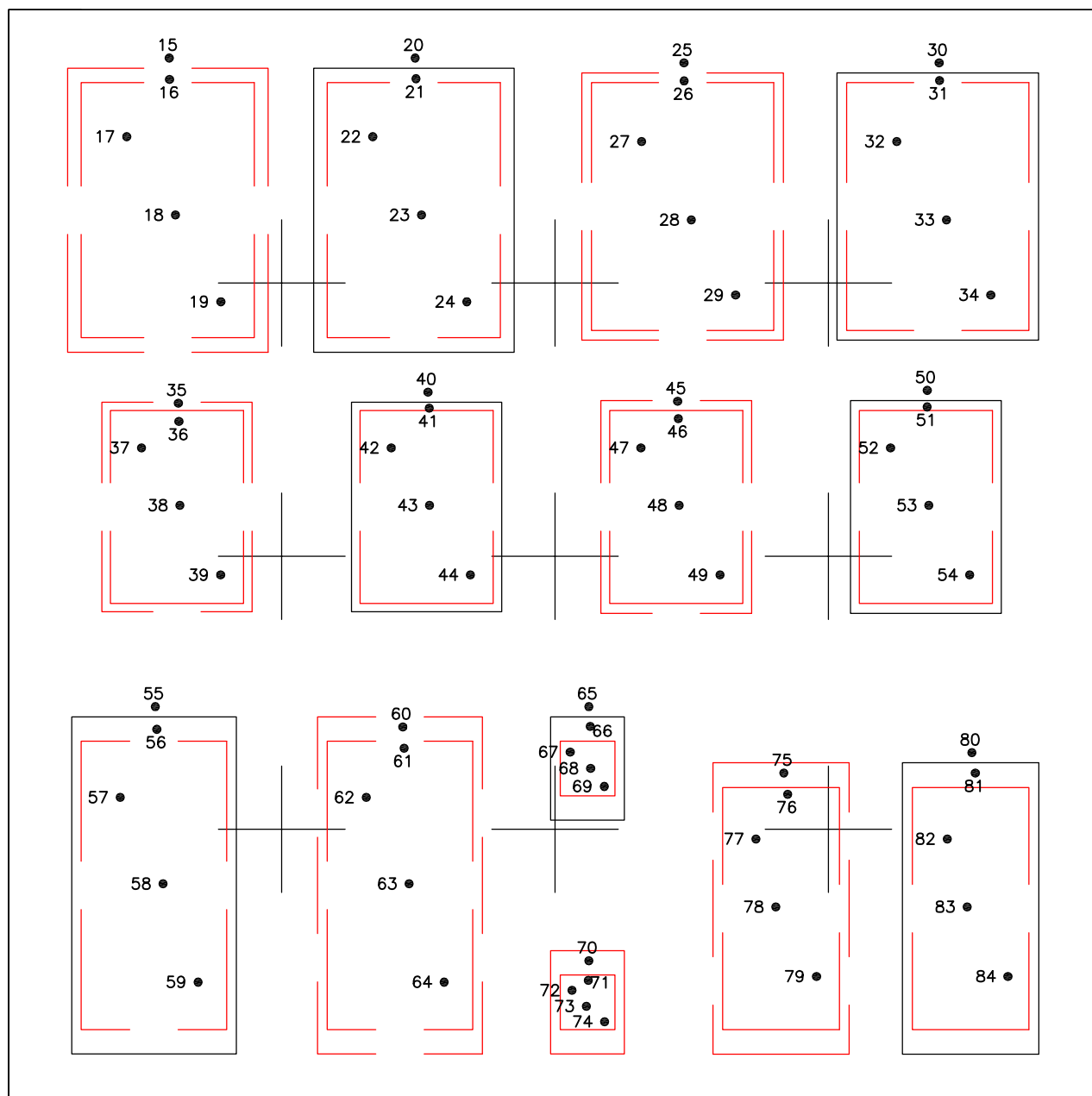
Date Drawn  
28/11/12

Drawn By  
ARD

Scale  
NTS

Project No.  
Chilt/RF12153

Appendix 2



Chiltern House, Stocking Lane, Hughenden Valley  
High Wycombe, Buckinghamshire, HP14 4ND, UK.  
Tel: +44 (0)1494 569800 Fax: +44 (0)1494 564895

Title Thermocouple positions

(All dimensions in mm)

Date Drawn  
28/11/12

Drawn By  
ARD

Scale  
NTS

Project No.  
Chilt/RF12153

Appendix 2

## Appendix 2 - raw test data (16 pages)

(see figure 2 of Appendix 2 for channel locations)

Furnace thermocouples
  Failure time and corresponding thermocouple

| Time | Chan 0 | Chan 1 | Chan 2 | Chan 3 | Chan 4 | Chan 5 | Chan 6 | Chan 7 | Chan 8 | Chan 9 | Chan 11 | Chan 15 | Chan 16 | Chan 17 | Chan 18 | Chan 19 | Chan 20 | Chan 21 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | Pa     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 0    | 0      | 14     | 15     | 15     | 15     | 15     | 15     | 16     | 16     | 16     | 14      | 16      | 16      | 16      | 16      | 16      | 16      | 16      |
| 1    | -4.3   | 198    | 264    | 224    | 230    | 193    | 15     | 192    | 277    | 180    | 14      | 17      | 17      | 16      | 17      | 17      | 32      | 16      |
| 2    | -8.9   | 398    | 395    | 419    | 461    | 434    | 15     | 387    | 444    | 407    | 14      | 24      | 18      | 17      | 18      | 20      | 48      | 18      |
| 3    | 0.4    | 453    | 440    | 474    | 538    | 513    | 15     | 458    | 503    | 479    | 14      | 33      | 23      | 18      | 22      | 28      | 63      | 22      |
| 4    | -0.3   | 532    | 541    | 556    | 622    | 597    | 611    | 568    | 611    | 586    | 14      | 42      | 28      | 21      | 27      | 34      | 77      | 31      |
| 5    | -3.9   | 574    | 578    | 582    | 644    | 629    | 636    | 597    | 627    | 613    | 14      | 50      | 33      | 24      | 33      | 41      | 92      | 42      |
| 6    | -0.9   | 572    | 558    | 574    | 638    | 628    | 625    | 585    | 610    | 601    | 14      | 55      | 38      | 28      | 38      | 48      | 109     | 51      |
| 7    | 1      | 580    | 566    | 585    | 642    | 637    | 631    | 586    | 612    | 601    | 14      | 58      | 44      | 35      | 46      | 55      | 127     | 58      |
| 8    | 0.1    | 605    | 606    | 618    | 666    | 666    | 655    | 610    | 634    | 623    | 14      | 63      | 51      | 43      | 54      | 62      | 146     | 68      |
| 9    | 0      | 635    | 645    | 648    | 695    | 700    | 683    | 637    | 662    | 649    | 14      | 68      | 59      | 52      | 63      | 66      | 163     | 82      |
| 10   | -0.2   | 656    | 670    | 671    | 714    | 716    | 699    | 660    | 678    | 669    | 14      | 68      | 57      | 61      | 75      | 74      | 178     | 88      |
| 11   | -0.2   | 668    | 689    | 688    | 728    | 729    | 711    | 677    | 690    | 682    | 14      | 70      | 57      | 69      | 85      | 84      | 191     | 98      |
| 12   | 0.1    | 683    | 701    | 697    | 740    | 741    | 721    | 692    | 702    | 694    | 14      | 74      | 61      | 74      | 90      | 90      | 208     | 112     |
| 13   | -0.6   | 698    | 712    | 708    | 749    | 749    | 731    | 705    | 712    | 705    | 14      | 77      | 67      | 74      | 92      | 93      | 227     | 132     |
| 14   | 0.1    | 707    | 722    | 717    | 757    | 761    | 742    | 709    | 720    | 713    | 14      | 81      | 68      | 74      | 92      | 95      | 239     | 154     |
| 15   | -0.1   | 713    | 730    | 725    | 764    | 767    | 746    | 720    | 727    | 721    | 13      | 83      | 91      | 80      | 92      | 96      | 229     | 107     |
| 16   | 0.1    | 725    | 739    | 731    | 773    | 773    | 752    | 727    | 734    | 728    | 13      | 88      | 84      | 86      | 92      | 73      | 245     | 40      |
| 17   | 0.2    | 734    | 746    | 739    | 780    | 778    | 760    | 733    | 740    | 735    | 13      | 91      | 79      | 92      | 92      | 63      | 194     | 20      |

| Time | Chan 0 | Chan 1 | Chan 2 | Chan 3 | Chan 4 | Chan 5 | Chan 6 | Chan 7 | Chan 8 | Chan 9 | Chan 11 | Chan 15 | Chan 16 | Chan 17 | Chan 18 | Chan 19 | Chan 20 | Chan 21 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | Pa     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 18   | 0.1    | 746    | 757    | 750    | 790    | 791    | 769    | 744    | 751    | 745    | 13      | 95      | 78      | 101     | 93      | 69      | 50      | 15      |
| 19   | -0.2   | 758    | 770    | 760    | 800    | 803    | 779    | 754    | 762    | 755    | 13      | 100     | 83      | 106     | 93      | 65      | 15      | 15      |
| 20   | -0.2   | 768    | 778    | 771    | 806    | 810    | 787    | 761    | 768    | 761    | 13      | 105     | 87      | 111     | 95      | 64      | 14      | 14      |
| 21   | -1.8   | 777    | 788    | 773    | 813    | 817    | 794    | 769    | 775    | 767    | 13      | 110     | 89      | 115     | 98      | 65      | 13      | 14      |
| 22   | -1.8   | 785    | 792    | 782    | 822    | 823    | 801    | 775    | 782    | 774    | 13      | 116     | 93      | 119     | 105     | 65      | 13      | 14      |
| 23   | -1.6   | 792    | 799    | 790    | 829    | 829    | 805    | 784    | 788    | 782    | 13      | 120     | 97      | 123     | 109     | 68      | 13      | 14      |
| 24   | -1.3   | 799    | 807    | 794    | 833    | 836    | 813    | 787    | 794    | 787    | 13      | 125     | 99      | 128     | 113     | 75      | 13      | 14      |
| 25   | -2.1   | 807    | 812    | 800    | 838    | 839    | 819    | 795    | 799    | 792    | 13      | 129     | 102     | 133     | 122     | 74      | 13      | 14      |
| 26   | -1.5   | 812    | 820    | 808    | 845    | 847    | 825    | 800    | 806    | 797    | 13      | 134     | 102     | 132     | 138     | 73      | 13      | 14      |
| 27   | -1.7   | 820    | 827    | 816    | 850    | 853    | 829    | 809    | 813    | 804    | 13      | 139     | 105     | 138     | 177     | 76      | 13      | 14      |
| 28   | -1.4   | 827    | 837    | 822    | 857    | 860    | 834    | 814    | 817    | 809    | 13      | 145     | 110     | 150     | 153     | 79      | 13      | 15      |
| 29   | -1.9   | 833    | 840    | 828    | 862    | 864    | 841    | 817    | 822    | 814    | 13      | 147     | 113     | 188     | 140     | 76      | 13      | 14      |
| 30   | -1.7   | 838    | 846    | 830    | 866    | 870    | 845    | 823    | 829    | 820    | 13      | 150     | 115     | 209     | 138     | 76      | 14      | 14      |
| 31   | -1.7   | 843    | 849    | 837    | 871    | 875    | 849    | 829    | 832    | 825    | 13      | 150     | 64      | 91      | 112     | 39      | 13      | 14      |
| 32   | -1.4   | 850    | 857    | 844    | 875    | 881    | 854    | 831    | 837    | 829    | 13      | 152     | 32      | 35      | 105     | 25      | 13      | 14      |
| 33   | -1.5   | 854    | 861    | 850    | 880    | 880    | 859    | 834    | 841    | 833    | 13      | 154     | 22      | 22      | 102     | 19      | 13      | 14      |
| 34   | -1.5   | 859    | 867    | 859    | 883    | 887    | 864    | 838    | 846    | 838    | 13      | 160     | 19      | 20      | 106     | 18      | 14      | 14      |
| 35   | -1.2   | 864    | 872    | 860    | 887    | 891    | 869    | 843    | 850    | 842    | 13      | 169     | 18      | 18      | 107     | 17      | 14      | 14      |
| 36   | -1.2   | 867    | 877    | 868    | 891    | 896    | 873    | 847    | 852    | 845    | 13      | 214     | 18      | 19      | 116     | 16      | 14      | 14      |
| 37   | -2.2   | 875    | 879    | 870    | 897    | 899    | 877    | 851    | 858    | 851    | 13      | 217     | 19      | 19      | 118     | 16      | 14      | 14      |
| 38   | -1.9   | 881    | 885    | 877    | 900    | 904    | 881    | 855    | 862    | 855    | 13      | 187     | 23      | 28      | 73      | 16      | 14      | 14      |
| 39   | -2     | 885    | 889    | 880    | 904    | 907    | 885    | 858    | 866    | 859    | 13      | 189     | 25      | 30      | 45      | 16      | 13      | 14      |
| 40   | -1.6   | 888    | 893    | 886    | 906    | 909    | 888    | 865    | 871    | 864    | 13      | 192     | 25      | 28      | 32      | 15      | 13      | 13      |
| 41   | -1.7   | 893    | 897    | 887    | 911    | 915    | 892    | 869    | 875    | 867    | 13      | 195     | 25      | 28      | 26      | 15      | 14      | 14      |



| Time | Chan 0 | Chan 1 | Chan 2 | Chan 3 | Chan 4 | Chan 5 | Chan 6 | Chan 7 | Chan 8 | Chan 9 | Chan 11 | Chan 15 | Chan 16 | Chan 17 | Chan 18 | Chan 19 | Chan 20 | Chan 21 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | Pa     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 42   | -1.8   | 894    | 901    | 892    | 914    | 920    | 896    | 873    | 878    | 871    | 13      | 195     | 26      | 29      | 23      | 16      | 14      | 14      |
| 43   | -1.6   | 900    | 906    | 898    | 919    | 921    | 899    | 877    | 883    | 875    | 13      | 196     | 27      | 32      | 22      | 15      | 14      | 14      |
| 44   | -1.4   | 905    | 909    | 901    | 921    | 926    | 904    | 880    | 886    | 878    | 13      | 193     | 27      | 34      | 21      | 15      | 14      | 14      |
| 45   | -1.4   | 908    | 912    | 904    | 924    | 929    | 907    | 882    | 888    | 880    | 13      | 191     | 27      | 34      | 20      | 15      | 13      | 14      |
| 46   | -1.6   | 911    | 916    | 911    | 927    | 933    | 910    | 887    | 891    | 884    | 13      | 128     | 27      | 36      | 20      | 16      | 14      | 14      |
| 47   | -1.5   | 915    | 920    | 911    | 932    | 936    | 914    | 889    | 895    | 887    | 13      | 59      | 27      | 38      | 20      | 16      | 14      | 14      |
| 48   | -1.5   | 920    | 924    | 914    | 934    | 941    | 918    | 893    | 900    | 892    | 13      | 37      | 27      | 39      | 20      | 16      | 14      | 14      |
| 49   | -1.3   | 922    | 928    | 919    | 937    | 946    | 922    | 895    | 902    | 894    | 13      | 32      | 27      | 41      | 20      | 16      | 14      | 14      |
| 50   | -1.4   | 927    | 930    | 920    | 939    | 947    | 926    | 900    | 907    | 898    | 13      | 30      | 27      | 41      | 20      | 16      | 14      | 14      |
| 51   | -1.3   | 926    | 934    | 926    | 943    | 951    | 928    | 902    | 909    | 901    | 13      | 30      | 27      | 41      | 20      | 16      | 14      | 13      |
| 52   | -1.8   | 931    | 937    | 933    | 946    | 954    | 931    | 907    | 912    | 905    | 13      | 30      | 27      | 42      | 20      | 16      | 14      | 13      |
| 53   | -1.4   | 935    | 940    | 930    | 949    | 957    | 932    | 910    | 915    | 907    | 13      | 30      | 27      | 44      | 20      | 16      | 14      | 13      |
| 54   | -1.4   | 937    | 942    | 932    | 953    | 960    | 936    | 913    | 919    | 912    | 13      | 31      | 27      | 42      | 20      | 16      | 14      | 13      |
| 55   | -1.6   | 942    | 946    | 937    | 956    | 963    | 939    | 916    | 922    | 915    | 13      | 32      | 27      | 40      | 20      | 16      | 14      | 13      |
| 56   | -1.3   | 944    | 949    | 943    | 958    | 966    | 943    | 919    | 926    | 918    | 13      | 32      | 27      | 42      | 20      | 16      | 14      | 13      |
| 57   | -1.3   | 949    | 954    | 945    | 961    | 968    | 947    | 922    | 929    | 921    | 13      | 32      | 27      | 42      | 20      | 16      | 14      | 13      |
| 58   | -1.4   | 952    | 956    | 943    | 963    | 972    | 948    | 925    | 931    | 924    | 13      | 32      | 27      | 42      | 20      | 16      | 14      | 13      |
| 59   | -1.4   | 953    | 958    | 951    | 964    | 976    | 951    | 927    | 934    | 926    | 13      | 32      | 27      | 42      | 20      | 16      | 14      | 13      |
| 60   | -1.4   | 957    | 960    | 950    | 969    | 977    | 954    | 931    | 937    | 930    | 13      | 33      | 27      | 42      | 20      | 16      | 14      | 13      |
| 61   | -1.4   | 959    | 962    | 952    | 971    | 980    | 956    | 934    | 939    | 932    | 13      | 33      | 28      | 43      | 20      | 16      | 14      | 14      |
| 62   | -1.6   | 963    | 965    | 958    | 974    | 982    | 959    | 937    | 941    | 935    | 13      | 33      | 28      | 46      | 20      | 16      | 14      | 13      |
| 63   | -1.5   | 966    | 968    | 958    | 976    | 985    | 962    | 939    | 945    | 937    | 13      | 33      | 28      | 46      | 20      | 16      | 13      | 13      |
| 64   | -1.4   | 967    | 970    | 959    | 980    | 988    | 965    | 942    | 948    | 940    | 13      | 35      | 28      | 46      | 20      | 16      | 14      | 13      |
| 65   | -1.2   | 970    | 972    | 964    | 981    | 988    | 968    | 944    | 950    | 943    | 13      | 34      | 28      | 46      | 20      | 16      | 14      | 13      |

| Time | Chan 0 | Chan 1 | Chan 2 | Chan 3 | Chan 4 | Chan 5 | Chan 6 | Chan 7 | Chan 8 | Chan 9 | Chan 11 | Chan 15 | Chan 16 | Chan 17 | Chan 18 | Chan 19 | Chan 20 | Chan 21 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | Pa     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C     | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 66   | -1.1   | 975    | 976    | 966    | 983    | 992    | 969    | 947    | 952    | 945    | 13      | 34      | 29      | 47      | 20      | 16      | 14      | 13      |
| 67   | -1     | 977    | 978    | 965    | 985    | 994    | 972    | 949    | 955    | 948    | 13      | 34      | 29      | 46      | 20      | 16      | 14      | 13      |
| 68   | -1.2   | 979    | 980    | 972    | 988    | 997    | 975    | 952    | 957    | 950    | 13      | 35      | 28      | 47      | 20      | 16      | 14      | 13      |
| 69   | -1.2   | 978    | 983    | 973    | 991    | 1001   | 976    | 955    | 960    | 952    | 13      | 35      | 29      | 33      | 22      | 23      | 17      | 17      |
| 70   | -1.3   | 982    | 987    | 978    | 991    | 1002   | 980    | 955    | 962    | 955    | 12      | 30      | 27      | 27      | 21      | 21      | 16      | 16      |

| Time | Chan 22 | Chan 23 | Chan 24 | Chan 25 | Chan 26 | Chan 27 | Chan 28 | Chan 29 | Chan 30 | Chan 31 | Chan 32 | Chan 33 | Chan 34 | Chan 35 | Chan 36 | Chan 37 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 0    | 16      | 16      | 16      | 16      | 16      | 16      | 17      | 16      | 16      | 16      | 16      | 16      | 16      | 16      | 15      | 15      |
| 1    | 16      | 17      | 16      | 17      | 17      | 17      | 17      | 17      | 16      | 17      | 20      | 20      | 20      | 23      | 20      | 18      |
| 2    | 18      | 18      | 18      | 21      | 20      | 17      | 18      | 18      | 37      | 43      | 61      | 56      | 51      | 30      | 41      | 33      |
| 3    | 21      | 20      | 20      | 25      | 27      | 19      | 19      | 22      | 56      | 81      | 100     | 80      | 79      | 53      | 65      | 49      |
| 4    | 26      | 25      | 24      | 33      | 41      | 24      | 26      | 35      | 76      | 101     | 121     | 101     | 45      | 63      | 91      | 66      |
| 5    | 32      | 30      | 24      | 40      | 36      | 23      | 36      | 47      | 94      | 120     | 177     | 123     | 27      | 76      | 110     | 89      |
| 6    | 38      | 34      | 18      | 48      | 35      | 63      | 54      | 69      | 108     | 141     | 214     | 157     | 21      | 82      | 124     | 108     |
| 7    | 47      | 39      | 17      | 55      | 37      | 89      | 60      | 81      | 123     | 166     | 233     | 182     | 19      | 85      | 156     | 127     |
| 8    | 55      | 43      | 16      | 62      | 35      | 83      | 43      | 37      | 138     | 186     | 252     | 201     | 17      | 91      | 195     | 147     |
| 9    | 62      | 47      | 16      | 69      | 24      | 47      | 27      | 24      | 156     | 208     | 159     | 215     | 16      | 99      | 224     | 170     |
| 10   | 72      | 45      | 16      | 76      | 19      | 31      | 21      | 20      | 163     | 220     | 77      | 206     | 16      | 109     | 140     | 193     |
| 11   | 82      | 46      | 17      | 84      | 17      | 24      | 18      | 18      | 172     | 130     | 42      | 197     | 16      | 119     | 81      | 165     |
| 12   | 93      | 48      | 17      | 93      | 15      | 19      | 17      | 17      | 181     | 128     | 27      | 200     | 18      | 128     | 61      | 90      |
| 13   | 100     | 53      | 17      | 104     | 15      | 17      | 17      | 17      | 162     | 130     | 20      | 237     | 16      | 137     | 53      | 63      |
| 14   | 50      | 34      | 17      | 112     | 15      | 16      | 16      | 17      | 153     | 139     | 18      | 88      | 16      | 146     | 36      | 55      |
| 15   | 26      | 21      | 17      | 116     | 15      | 61      | 16      | 17      | 149     | 144     | 17      | 34      | 16      | 150     | 22      | 22      |

| Time | Chan<br>22 | Chan<br>23 | Chan<br>24 | Chan<br>25 | Chan<br>26 | Chan<br>27 | Chan<br>28 | Chan<br>29 | Chan<br>30 | Chan<br>31 | Chan<br>32 | Chan<br>33 | Chan<br>34 | Chan<br>35 | Chan<br>36 | Chan<br>37 |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| min  | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         |
| 16   | 17         | 16         | 17         | 125        | 15         | 14         | 16         | 17         | 152        | 148        | 17         | 22         | 17         | 155        | 19         | 16         |
| 17   | 15         | 15         | 17         | 132        | 14         | 13         | 15         | 17         | 152        | 153        | 17         | 19         | 17         | 159        | 18         | 15         |
| 18   | 14         | 14         | 18         | 137        | 14         | 13         | 15         | 18         | 152        | 154        | 17         | 20         | 19         | 162        | 16         | 14         |
| 19   | 15         | 14         | 20         | 144        | 15         | 13         | 15         | 19         | 156        | 160        | 18         | 22         | 20         | 166        | 15         | 14         |
| 20   | 16         | 14         | 21         | 156        | 15         | 13         | 15         | 20         | 165        | 164        | 18         | 23         | 21         | 172        | 14         | 14         |
| 21   | 16         | 14         | 21         | 165        | 15         | 13         | 16         | 21         | 182        | 171        | 18         | 23         | 21         | 182        | 14         | 14         |
| 22   | 16         | 14         | 21         | 169        | 15         | 13         | 16         | 20         | 197        | 176        | 18         | 23         | 21         | 190        | 16         | 14         |
| 23   | 17         | 14         | 20         | 172        | 15         | 13         | 16         | 20         | 209        | 181        | 18         | 21         | 20         | 196        | 16         | 14         |
| 24   | 17         | 14         | 21         | 173        | 15         | 13         | 16         | 19         | 231        | 192        | 19         | 20         | 20         | 203        | 16         | 14         |
| 25   | 17         | 15         | 21         | 174        | 15         | 13         | 16         | 20         | 254        | 200        | 19         | 21         | 20         | 210        | 17         | 14         |
| 26   | 17         | 15         | 22         | 174        | 15         | 13         | 16         | 20         | 263        | 205        | 19         | 21         | 21         | 218        | 16         | 14         |
| 27   | 17         | 15         | 22         | 177        | 16         | 96         | 16         | 20         | 259        | 207        | 19         | 22         | 20         | 225        | 16         | 14         |
| 28   | 18         | 15         | 22         | 177        | 16         | 99         | 16         | 21         | 253        | 195        | 19         | 23         | 20         | 241        | 16         | 14         |
| 29   | 17         | 14         | 23         | 180        | 16         | 98         | 16         | 20         | 236        | 196        | 19         | 23         | 20         | 252        | 16         | 14         |
| 30   | 18         | 15         | 24         | 184        | 16         | 104        | 17         | 21         | 222        | 198        | 19         | 23         | 21         | 261        | 17         | 14         |
| 31   | 18         | 14         | 25         | 86         | 17         | 15         | 18         | 23         | 126        | 152        | 19         | 24         | 23         | 266        | 18         | 14         |
| 32   | 19         | 14         | 26         | 27         | 17         | 16         | 20         | 25         | 40         | 74         | 20         | 23         | 24         | 247        | 18         | 14         |
| 33   | 19         | 14         | 26         | 22         | 18         | 16         | 21         | 25         | 26         | 46         | 20         | 23         | 24         | 244        | 18         | 14         |
| 34   | 20         | 14         | 25         | 23         | 18         | 17         | 22         | 27         | 25         | 35         | 20         | 22         | 25         | 239        | 18         | 14         |
| 35   | 20         | 14         | 25         | 23         | 18         | 17         | 22         | 27         | 25         | 32         | 20         | 22         | 25         | 238        | 18         | 14         |
| 36   | 20         | 14         | 26         | 23         | 18         | 17         | 23         | 27         | 25         | 30         | 20         | 22         | 26         | 237        | 18         | 14         |
| 37   | 20         | 14         | 26         | 23         | 19         | 17         | 23         | 28         | 25         | 29         | 20         | 22         | 26         | 234        | 18         | 14         |
| 38   | 20         | 14         | 27         | 23         | 19         | 18         | 25         | 28         | 25         | 29         | 21         | 23         | 26         | 70         | 18         | 15         |
| 39   | 20         | 14         | 26         | 24         | 19         | 18         | 26         | 30         | 25         | 30         | 21         | 23         | 27         | 28         | 18         | 14         |

| Time | Chan<br>22 | Chan<br>23 | Chan<br>24 | Chan<br>25 | Chan<br>26 | Chan<br>27 | Chan<br>28 | Chan<br>29 | Chan<br>30 | Chan<br>31 | Chan<br>32 | Chan<br>33 | Chan<br>34 | Chan<br>35 | Chan<br>36 | Chan<br>37 |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| min  | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         | °C         |
| 40   | 20         | 14         | 25         | 24         | 19         | 18         | 25         | 30         | 26         | 25         | 21         | 23         | 28         | 22         | 18         | 14         |
| 41   | 20         | 14         | 25         | 25         | 19         | 18         | 26         | 30         | 26         | 22         | 21         | 23         | 29         | 22         | 18         | 14         |
| 42   | 21         | 14         | 25         | 25         | 20         | 18         | 26         | 31         | 26         | 22         | 21         | 24         | 29         | 22         | 18         | 14         |
| 43   | 21         | 13         | 26         | 24         | 20         | 19         | 27         | 31         | 26         | 23         | 21         | 24         | 30         | 23         | 20         | 14         |
| 44   | 21         | 13         | 27         | 25         | 20         | 19         | 27         | 31         | 26         | 24         | 21         | 24         | 30         | 23         | 21         | 14         |
| 45   | 21         | 13         | 28         | 25         | 20         | 19         | 27         | 31         | 26         | 24         | 22         | 24         | 31         | 23         | 22         | 14         |
| 46   | 21         | 13         | 29         | 28         | 20         | 18         | 28         | 32         | 25         | 25         | 22         | 24         | 30         | 25         | 22         | 14         |
| 47   | 21         | 13         | 30         | 26         | 20         | 18         | 29         | 32         | 22         | 29         | 24         | 23         | 28         | 27         | 22         | 15         |
| 48   | 22         | 13         | 31         | 25         | 20         | 18         | 29         | 32         | 22         | 30         | 25         | 22         | 26         | 27         | 22         | 15         |
| 49   | 22         | 14         | 31         | 26         | 20         | 18         | 30         | 32         | 22         | 29         | 25         | 21         | 25         | 28         | 23         | 15         |
| 50   | 22         | 13         | 32         | 33         | 20         | 19         | 30         | 34         | 20         | 30         | 26         | 20         | 25         | 27         | 23         | 15         |
| 51   | 22         | 13         | 32         | 34         | 21         | 19         | 30         | 35         | 20         | 30         | 26         | 20         | 25         | 27         | 22         | 14         |
| 52   | 22         | 13         | 32         | 35         | 21         | 19         | 31         | 34         | 22         | 30         | 26         | 20         | 25         | 28         | 23         | 15         |
| 53   | 22         | 13         | 33         | 35         | 21         | 19         | 31         | 35         | 22         | 29         | 26         | 20         | 25         | 29         | 24         | 15         |
| 54   | 22         | 13         | 33         | 35         | 21         | 19         | 31         | 35         | 21         | 29         | 26         | 20         | 25         | 27         | 24         | 15         |
| 55   | 22         | 13         | 32         | 35         | 21         | 19         | 31         | 35         | 21         | 30         | 27         | 20         | 25         | 26         | 24         | 15         |
| 56   | 22         | 13         | 33         | 36         | 21         | 19         | 31         | 36         | 19         | 30         | 27         | 20         | 25         | 28         | 24         | 15         |
| 57   | 22         | 13         | 33         | 37         | 21         | 19         | 31         | 36         | 20         | 30         | 27         | 20         | 25         | 28         | 25         | 15         |
| 58   | 23         | 13         | 33         | 37         | 21         | 19         | 31         | 36         | 20         | 31         | 27         | 20         | 25         | 28         | 25         | 15         |
| 59   | 23         | 13         | 33         | 37         | 21         | 19         | 32         | 36         | 20         | 30         | 27         | 20         | 26         | 29         | 24         | 15         |
| 60   | 23         | 13         | 34         | 38         | 22         | 20         | 33         | 37         | 19         | 30         | 28         | 20         | 26         | 29         | 25         | 15         |
| 61   | 23         | 13         | 34         | 38         | 22         | 20         | 33         | 38         | 20         | 31         | 28         | 20         | 26         | 29         | 25         | 15         |
| 62   | 23         | 14         | 34         | 39         | 22         | 20         | 33         | 37         | 19         | 31         | 28         | 20         | 26         | 30         | 25         | 15         |
| 63   | 23         | 13         | 34         | 39         | 22         | 20         | 33         | 38         | 20         | 31         | 28         | 20         | 26         | 30         | 26         | 15         |

| Time | Chan 22 | Chan 23 | Chan 24 | Chan 25 | Chan 26 | Chan 27 | Chan 28 | Chan 29 | Chan 30 | Chan 31 | Chan 32 | Chan 33 | Chan 34 | Chan 35 | Chan 36 | Chan 37 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 64   | 23      | 14      | 35      | 39      | 22      | 20      | 33      | 38      | 20      | 31      | 28      | 21      | 26      | 30      | 25      | 15      |
| 65   | 24      | 14      | 35      | 39      | 22      | 20      | 34      | 38      | 20      | 31      | 28      | 20      | 27      | 30      | 26      | 15      |
| 66   | 24      | 14      | 36      | 39      | 22      | 20      | 34      | 39      | 20      | 31      | 28      | 20      | 27      | 31      | 25      | 15      |
| 67   | 24      | 14      | 36      | 40      | 22      | 20      | 34      | 39      | 21      | 32      | 29      | 21      | 27      | 30      | 25      | 15      |
| 68   | 24      | 14      | 36      | 40      | 22      | 20      | 35      | 40      | 20      | 32      | 29      | 20      | 27      | 31      | 26      | 15      |
| 69   | 25      | 18      | 32      | 24      | 22      | 20      | 32      | 37      | 19      | 25      | 26      | 21      | 23      | 24      | 31      | 22      |
| 70   | 22      | 17      | 27      | 20      | 20      | 20      | 27      | 31      | 16      | 21      | 21      | 20      | 20      | 20      | 32      | 23      |

| Time | Chan 38 | Chan 39 | Chan 40 | Chan 41 | Chan 42 | Chan 43 | Chan 44 | Chan 45 | Chan 46 | Chan 47 | Chan 48 | Chan 49 | Chan 50 | Chan 51 | Chan 52 | Chan 53 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 0    | 16      | 15      | 15      | 15      | 15      | 15      | 15      | 16      | 16      | 15      | 16      | 16      | 15      | 16      | 16      | 16      |
| 1    | 16      | 17      | 17      | 17      | 16      | 16      | 16      | 17      | 16      | 16      | 16      | 16      | 23      | 20      | 21      | 18      |
| 2    | 23      | 27      | 25      | 35      | 24      | 27      | 25      | 20      | 21      | 17      | 17      | 17      | 31      | 40      | 44      | 37      |
| 3    | 36      | 42      | 49      | 56      | 34      | 33      | 38      | 33      | 29      | 20      | 18      | 19      | 53      | 66      | 75      | 84      |
| 4    | 52      | 59      | 64      | 85      | 31      | 41      | 56      | 44      | 44      | 26      | 23      | 25      | 81      | 102     | 106     | 58      |
| 5    | 65      | 72      | 66      | 107     | 31      | 45      | 66      | 55      | 65      | 36      | 30      | 32      | 102     | 106     | 66      | 72      |
| 6    | 80      | 87      | 69      | 125     | 32      | 46      | 73      | 62      | 87      | 53      | 40      | 44      | 124     | 133     | 48      | -       |
| 7    | 95      | 101     | 75      | 152     | 33      | 52      | 89      | 69      | 103     | 78      | 32      | 61      | 147     | 167     | 45      | 100     |
| 8    | 111     | 109     | 84      | 182     | 35      | 48      | 101     | 75      | 113     | 95      | 38      | 77      | 166     | 198     | 46      | -       |
| 9    | 126     | 118     | 105     | 209     | 39      | 50      | 103     | 81      | 127     | 98      | 44      | 82      | 178     | 220     | 46      | 122     |
| 10   | 145     | 132     | 115     | 233     | 42      | 52      | 107     | 92      | 142     | 99      | 50      | 84      | 187     | 240     | 45      | 161     |
| 11   | 169     | 152     | 121     | 255     | 46      | 52      | 124     | 98      | 157     | 99      | 57      | 85      | 200     | 250     | 49      | 191     |
| 12   | 194     | 175     | 126     | 275     | 49      | 54      | 160     | 102     | 175     | 101     | 62      | 89      | 217     | 260     | 50      | 203     |
| 13   | 214     | 198     | 131     | 272     | 51      | 54      | 189     | 124     | 196     | 103     | 68      | 92      | 225     | 271     | 52      | 210     |

| Time | Chan 38 | Chan 39 | Chan 40 | Chan 41 | Chan 42 | Chan 43 | Chan 44 | Chan 45 | Chan 46 | Chan 47 | Chan 48 | Chan 49 | Chan 50 | Chan 51 | Chan 52 | Chan 53 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 14   | 141     | 216     | 158     | 151     | 53      | 110     | 209     | 151     | 217     | 109     | 70      | 97      | 203     | 270     | 50      | 190     |
| 15   | 155     | 78      | 183     | 96      | 53      | 133     | 224     | 122     | 243     | 125     | 53      | 100     | 199     | 255     | 47      | 185     |
| 16   | 170     | 19      | 183     | 82      | 53      | 140     | 236     | 119     | 163     | 149     | 42      | 106     | 197     | 242     | 47      | 175     |
| 17   | 173     | 16      | 187     | 80      | 54      | 148     | 246     | 124     | 81      | 223     | 39      | 129     | 196     | 237     | 47      | 168     |
| 18   | 177     | 15      | 186     | 82      | 54      | 148     | 254     | 125     | 49      | 139     | 43      | 176     | 197     | 240     | 50      | 170     |
| 19   | 185     | 14      | 188     | 89      | 58      | 152     | 262     | 132     | 41      | 110     | 46      | 228     | 200     | 244     | 50      | 183     |
| 20   | 192     | 14      | 191     | 94      | 61      | 159     | 270     | 143     | 39      | 104     | 47      | 258     | 206     | 250     | 51      | 190     |
| 21   | 197     | 14      | 195     | 99      | 65      | 167     | 277     | 166     | 59      | 103     | 36      | 160     | 215     | 260     | 52      | 197     |
| 22   | 203     | 18      | 197     | 99      | 69      | 171     | 234     | 186     | 68      | 107     | 31      | 97      | 225     | 271     | 53      | 193     |
| 23   | 209     | 22      | 199     | 101     | 74      | 172     | 189     | 183     | 70      | 112     | 28      | 67      | 232     | 282     | 53      | 187     |
| 24   | 212     | 23      | 202     | 103     | 77      | 175     | 172     | 172     | 74      | 118     | 28      | 56      | 228     | 284     | 55      | 186     |
| 25   | 213     | 24      | 204     | 106     | 80      | 179     | 169     | 176     | 76      | 121     | 29      | 56      | 229     | 280     | 56      | 192     |
| 26   | 208     | 24      | 207     | 32      | 29      | 85      | 89      | 191     | 80      | 121     | 29      | 53      | 227     | 276     | 58      | 195     |
| 27   | 212     | 25      | 208     | 19      | 27      | 42      | 55      | 218     | 82      | 136     | 30      | 55      | 231     | 276     | 60      | 204     |
| 28   | 216     | 25      | 211     | 15      | 26      | 26      | 43      | 219     | 83      | 145     | 31      | 56      | 230     | 274     | 61      | 205     |
| 29   | 213     | 25      | 215     | 14      | 25      | 20      | 39      | 231     | 83      | 148     | 31      | 56      | 232     | 273     | 62      | 204     |
| 30   | 214     | 27      | 214     | 14      | 26      | 18      | 38      | 265     | 89      | 150     | 32      | 57      | 239     | 277     | 64      | 210     |
| 31   | 218     | 23      | 47      | 14      | 21      | 18      | 32      | 32      | 42      | 105     | 35      | 49      | 196     | 222     | 61      | 163     |
| 32   | 229     | 19      | 24      | 14      | 18      | 19      | 28      | 26      | 37      | 71      | 35      | 44      | 93      | 117     | 50      | 86      |
| 33   | 235     | 18      | 21      | 13      | 17      | 20      | 27      | 26      | 36      | 55      | 35      | 41      | 51      | 66      | 44      | 54      |
| 34   | 240     | 19      | 18      | 14      | 17      | 20      | 27      | 23      | 36      | 47      | 34      | 40      | 35      | 43      | 42      | 40      |
| 35   | 237     | 24      | 17      | 14      | 16      | 20      | 25      | 21      | 35      | 42      | 32      | 38      | 28      | 32      | 39      | 32      |
| 36   | 234     | 29      | 21      | 13      | 17      | 21      | 26      | 23      | 35      | 40      | 33      | 38      | 26      | 27      | 40      | 30      |
| 37   | 225     | 29      | 24      | 13      | 17      | 21      | 27      | 24      | 36      | 40      | 34      | 39      | 26      | 25      | 40      | 29      |

| Time | Chan 38 | Chan 39 | Chan 40 | Chan 41 | Chan 42 | Chan 43 | Chan 44 | Chan 45 | Chan 46 | Chan 47 | Chan 48 | Chan 49 | Chan 50 | Chan 51 | Chan 52 | Chan 53 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 38   | 128     | 32      | 18      | 14      | 15      | 22      | 30      | 23      | 36      | 40      | 35      | 40      | 25      | 23      | 40      | 28      |
| 39   | 61      | 21      | 22      | 14      | 15      | 22      | 30      | 22      | 37      | 41      | 37      | 41      | 26      | 22      | 40      | 27      |
| 40   | 34      | 17      | 20      | 13      | 14      | 22      | 30      | 21      | 36      | 41      | 37      | 41      | 25      | 22      | 37      | 24      |
| 41   | 25      | 16      | 19      | 14      | 14      | 22      | 30      | 21      | 37      | 42      | 38      | 41      | 24      | 22      | 31      | 21      |
| 42   | 23      | 16      | 19      | 14      | 14      | 23      | 30      | 21      | 37      | 42      | 38      | 41      | 25      | 21      | 29      | 21      |
| 43   | 23      | 21      | 25      | 14      | 14      | 23      | 31      | 21      | 37      | 42      | 38      | 41      | 24      | 21      | 28      | 20      |
| 44   | 23      | 24      | 32      | 13      | 14      | 23      | 32      | 22      | 38      | 42      | 38      | 42      | 24      | 22      | 27      | 20      |
| 45   | 23      | 25      | 35      | 13      | 14      | 23      | 32      | 22      | 38      | 43      | 39      | 43      | 24      | 22      | 27      | 20      |
| 46   | 23      | 25      | 37      | 13      | 14      | 23      | 33      | 23      | 39      | 43      | 39      | 43      | 26      | 22      | 28      | 22      |
| 47   | 24      | 25      | 37      | 14      | 14      | 23      | 34      | 24      | 40      | 42      | 40      | 44      | 24      | 25      | 29      | 26      |
| 48   | 24      | 25      | 38      | 13      | 14      | 24      | 34      | 24      | 40      | 41      | 41      | 44      | 22      | 27      | 29      | 27      |
| 49   | 24      | 26      | 39      | 13      | 14      | 24      | 35      | 24      | 41      | 42      | 42      | 45      | 22      | 28      | 29      | 28      |
| 50   | 24      | 27      | 39      | 14      | 14      | 24      | 35      | 26      | 40      | 42      | 42      | 46      | 22      | 29      | 29      | 29      |
| 51   | 24      | 27      | 40      | 13      | 14      | 24      | 35      | 26      | 41      | 42      | 41      | 46      | 22      | 29      | 29      | 29      |
| 52   | 24      | 27      | 41      | 13      | 14      | 24      | 35      | 25      | 41      | 43      | 42      | 47      | 21      | 29      | 29      | 29      |
| 53   | 25      | 27      | 41      | 13      | 14      | 24      | 36      | 24      | 42      | 44      | 42      | 47      | 21      | 29      | 29      | 29      |
| 54   | 24      | 28      | 41      | 13      | 14      | 24      | 35      | 25      | 43      | 44      | 43      | 47      | 21      | 29      | 29      | 29      |
| 55   | 24      | 29      | 42      | 13      | 14      | 24      | 34      | 25      | 43      | 44      | 42      | 46      | 21      | 29      | 29      | 29      |
| 56   | 24      | 29      | 42      | 13      | 14      | 24      | 35      | 26      | 43      | 45      | 43      | 47      | 21      | 29      | 30      | 29      |
| 57   | 24      | 29      | 43      | 13      | 14      | 24      | 35      | 26      | 43      | 45      | 43      | 47      | 21      | 29      | 30      | 30      |
| 58   | 24      | 29      | 43      | 13      | 14      | 24      | 35      | 26      | 43      | 45      | 43      | 47      | 21      | 29      | 30      | 30      |
| 59   | 25      | 29      | 43      | 13      | 14      | 25      | 36      | 26      | 44      | 45      | 43      | 47      | 21      | 30      | 30      | 30      |
| 60   | 25      | 30      | 44      | 14      | 14      | 25      | 36      | 24      | 45      | 46      | 44      | 48      | 21      | 30      | 31      | 30      |
| 61   | 25      | 30      | 44      | 13      | 14      | 25      | 36      | 25      | 45      | 47      | 45      | 48      | 21      | 30      | 31      | 30      |



| Time | Chan 38 | Chan 39 | Chan 40 | Chan 41 | Chan 42 | Chan 43 | Chan 44 | Chan 45 | Chan 46 | Chan 47 | Chan 48 | Chan 49 | Chan 50 | Chan 51 | Chan 52 | Chan 53 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 62   | 25      | 30      | 45      | 13      | 14      | 25      | 37      | 26      | 45      | 47      | 46      | 48      | 21      | 30      | 31      | 30      |
| 63   | 25      | 30      | 45      | 13      | 14      | 25      | 37      | 25      | 45      | 47      | 47      | 48      | 22      | 30      | 31      | 30      |
| 64   | 25      | 31      | 46      | 14      | 14      | 25      | 37      | 27      | 45      | 48      | 48      | 49      | 22      | 30      | 31      | 31      |
| 65   | 26      | 31      | 46      | 13      | 14      | 26      | 37      | 26      | 46      | 48      | 49      | 49      | 22      | 30      | 31      | 31      |
| 66   | 26      | 30      | 47      | 13      | 14      | 26      | 38      | 25      | 47      | 49      | 49      | 50      | 22      | 30      | 31      | 31      |
| 67   | 26      | 30      | 47      | 13      | 14      | 26      | 38      | 27      | 47      | 49      | 49      | 50      | 22      | 31      | 31      | 31      |
| 68   | 26      | 32      | 48      | 13      | 14      | 26      | 38      | 28      | 47      | 49      | 50      | 50      | 22      | 31      | 32      | 31      |
| 69   | 27      | 29      | 39      | 19      | 18      | 26      | 35      | 24      | 39      | 40      | 43      | 41      | 19      | 27      | 28      | 26      |
| 70   | -16     | 26      | 29      | 18      | 18      | 22      | 32      | 22      | 31      | 33      | 36      | 33      | 18      | 24      | 22      | 22      |

| Time | Chan 54 | Chan 55 | Chan 56 | Chan 57 | Chan 58 | Chan 59 | Chan 60 | Chan 61 | Chan 62 | Chan 63 | Chan 64 | Chan 65 | Chan 66 | Chan 67 | Chan 68 | Chan 69 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 0    | 16      | 16      | 16      | 15      | 15      | 15      | 14      | 14      | 14      | 14      | 14      | 15      | 15      | 18      | 15      | 15      |
| 1    | 18      | 17      | 41      | 28      | 100     | 79      | 15      | 110     | 65      | 42      | 98      | 16      | 54      | -25     | 33      | 39      |
| 2    | 30      | 21      | 78      | 25      | 109     | 68      | 16      | 101     | 35      | 22      | 84      | 18      | 85      | -62     | 26      | 61      |
| 3    | 66      | 25      | 103     | 18      | 106     | 44      | 18      | 50      | 24      | 17      | 95      | 23      | 108     | -71     | 25      | 73      |
| 4    | 98      | 30      | 132     | 72      | 124     | 136     | 20      | 29      | 21      | 14      | 128     | 29      | 134     | 138     | 28      | 100     |
| 5    | 86      | 35      | 172     | 25      | 63      | 148     | 23      | 21      | 19      | 14      | 163     | 30      | 161     | 165     | 29      | 98      |
| 6    | 88      | 40      | 202     | 17      | 33      | 79      | 26      | 18      | 19      | 13      | 189     | 31      | 183     | 185     | 30      | 101     |
| 7    | 97      | 46      | 224     | 16      | 22      | 50      | 28      | 17      | 19      | 13      | 223     | 33      | 203     | 204     | 33      | 115     |
| 8    | 105     | 51      | 247     | 15      | 18      | 35      | 30      | 17      | 19      | 13      | 250     | 35      | 221     | 222     | 36      | 130     |
| 9    | 108     | 56      | 264     | 15      | 17      | 29      | 33      | 18      | 20      | 13      | 296     | 37      | 239     | 238     | 39      | 148     |
| 10   | 113     | 62      | 280     | 15      | 17      | 27      | 35      | 18      | 20      | 13      | 312     | 39      | 254     | 249     | 42      | 166     |
| 11   | 125     | 68      | 291     | 15      | 16      | 27      | 37      | 18      | 21      | 13      | 367     | 42      | 266     | 131     | 34      | 181     |

| Time | Chan 54 | Chan 55 | Chan 56 | Chan 57 | Chan 58 | Chan 59 | Chan 60 | Chan 61 | Chan 62 | Chan 63 | Chan 64 | Chan 65 | Chan 66 | Chan 67 | Chan 68 | Chan 69 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 12   | 136     | 73      | 304     | 15      | 16      | 27      | 39      | 18      | 22      | 13      | 357     | 46      | 271     | 68      | 29      | 191     |
| 13   | 150     | 79      | 315     | 15      | 16      | 27      | 40      | 18      | 22      | 13      | 343     | 49      | 278     | 44      | 26      | 200     |
| 14   | 125     | 85      | 325     | 15      | 16      | 25      | 42      | 19      | 22      | 13      | 331     | 53      | 284     | 36      | 24      | 208     |
| 15   | 111     | 89      | 330     | 15      | 16      | 20      | 45      | 19      | 22      | 13      | 323     | 57      | 291     | 28      | 21      | 214     |
| 16   | 99      | 92      | 337     | 15      | 16      | 17      | 48      | 15      | 21      | 13      | 293     | 60      | 294     | 25      | 21      | 217     |
| 17   | 83      | 95      | 342     | 15      | 16      | 16      | 51      | 14      | 20      | 13      | 293     | 65      | 299     | 24      | 20      | 221     |
| 18   | 85      | 98      | 349     | 15      | 16      | 16      | 55      | 14      | 20      | 13      | 279     | 66      | 298     | 23      | 20      | 222     |
| 19   | 84      | 101     | 362     | 15      | 16      | 15      | 58      | 14      | 20      | 13      | 283     | 68      | 238     | 23      | 20      | 222     |
| 20   | 82      | 105     | 375     | 15      | 16      | 15      | 61      | 14      | 21      | 13      | 294     | 71      | 189     | 24      | 21      | 186     |
| 21   | 81      | 109     | 387     | 15      | 16      | 15      | 63      | 13      | 22      | 13      | 310     | 75      | 100     | 24      | 22      | 77      |
| 22   | 82      | 112     | 400     | 15      | 19      | 15      | 63      | 14      | 23      | 13      | 325     | 77      | 71      | 25      | 23      | 42      |
| 23   | 83      | 115     | 417     | 15      | 20      | 15      | 65      | 14      | 24      | 13      | 337     | 80      | 63      | 26      | 24      | 32      |
| 24   | 86      | 118     | 431     | 15      | 21      | 16      | 67      | 14      | 24      | 13      | 342     | 82      | 62      | 27      | 25      | 29      |
| 25   | 87      | 121     | 436     | 15      | 22      | 16      | 69      | 14      | 25      | 13      | 354     | 84      | 63      | 28      | 25      | 29      |
| 26   | 90      | 124     | 437     | 15      | 22      | 16      | 74      | 14      | 26      | 13      | 356     | 86      | 33      | 77      | 22      | 30      |
| 27   | 88      | 126     | 441     | 15      | 23      | 16      | 74      | 14      | 27      | 13      | 374     | 88      | 22      | 96      | 24      | 33      |
| 28   | 87      | 131     | 442     | 15      | 23      | 16      | 76      | 15      | 28      | 13      | 395     | 90      | 19      | 99      | 24      | 36      |
| 29   | 91      | 133     | 428     | 15      | 23      | 16      | 80      | 14      | 28      | 13      | 391     | 91      | 17      | 104     | 24      | 36      |
| 30   | 90      | 135     | 423     | 15      | 23      | 16      | 81      | 14      | 29      | 14      | 408     | 213     | 17      | 106     | 26      | 36      |
| 31   | 85      | 138     | 421     | 15      | 24      | 16      | 51      | 14      | 21      | 14      | 410     | 26      | 20      | 59      | 27      | 39      |
| 32   | 58      | 139     | 427     | 15      | 26      | 16      | 34      | 14      | 17      | 14      | 406     | 18      | 22      | 41      | 26      | 37      |
| 33   | 46      | 140     | 435     | 15      | 26      | 16      | 29      | 14      | 16      | 14      | 420     | 18      | 23      | 33      | 26      | 36      |
| 34   | 41      | 143     | 447     | 15      | 26      | 17      | 27      | 15      | 15      | 14      | 440     | 17      | 24      | 29      | 24      | 35      |
| 35   | 39      | 146     | 457     | 15      | 26      | 17      | 26      | 15      | 15      | 14      | 434     | 19      | 23      | 27      | 23      | 34      |

| Time | Chan 54 | Chan 55 | Chan 56 | Chan 57 | Chan 58 | Chan 59 | Chan 60 | Chan 61 | Chan 62 | Chan 63 | Chan 64 | Chan 65 | Chan 66 | Chan 67 | Chan 68 | Chan 69 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 36   | 38      | 152     | 456     | 15      | 26      | 17      | 27      | 15      | 15      | 14      | 469     | 23      | 24      | 27      | 26      | 36      |
| 37   | 38      | 153     | 457     | 16      | 27      | 17      | 28      | 15      | 15      | 14      | 477     | 25      | 24      | 28      | 26      | 38      |
| 38   | 39      | 37      | 176     | 16      | 27      | 18      | 28      | 14      | 17      | 15      | 167     | 25      | 26      | 29      | 28      | 40      |
| 39   | 39      | 22      | 57      | 16      | 27      | 20      | 27      | 14      | 17      | 15      | 69      | 20      | 26      | 29      | 26      | 39      |
| 40   | 39      | 20      | 27      | 15      | 28      | 20      | 25      | 14      | 17      | 15      | 34      | 19      | 26      | 28      | 24      | 37      |
| 41   | 38      | 20      | 23      | 15      | 28      | 20      | 24      | 13      | 17      | 15      | 23      | 19      | 26      | 27      | 24      | 36      |
| 42   | 39      | 20      | 23      | 16      | 29      | 20      | 24      | 13      | 18      | 16      | 19      | 19      | 27      | 27      | 24      | 36      |
| 43   | 39      | 19      | 25      | 16      | 28      | 21      | 26      | 13      | 18      | 16      | 18      | 21      | 27      | 28      | 26      | 38      |
| 44   | 39      | 19      | 27      | 16      | 28      | 21      | 27      | 13      | 18      | 16      | 17      | 21      | 27      | 30      | 28      | 41      |
| 45   | 40      | 19      | 28      | 16      | 28      | 21      | 27      | 13      | 18      | 16      | 17      | 22      | 27      | 30      | 28      | 41      |
| 46   | 40      | 19      | 30      | 16      | 29      | 22      | 29      | 14      | 18      | 16      | 16      | 23      | 28      | 31      | 31      | 43      |
| 47   | 36      | 19      | 31      | 16      | 29      | 22      | 28      | 13      | 19      | 16      | 16      | 24      | 28      | 33      | 32      | 44      |
| 48   | 34      | 19      | 33      | 16      | 29      | 22      | 28      | 14      | 19      | 16      | 16      | 24      | 29      | 34      | 32      | 44      |
| 49   | 32      | 20      | 33      | 16      | 29      | 23      | 29      | 14      | 19      | 16      | 16      | 24      | 30      | 34      | 33      | 45      |
| 50   | 32      | 20      | 32      | 16      | 30      | 23      | 29      | 14      | 19      | 16      | 16      | 24      | 29      | 35      | 33      | 46      |
| 51   | 32      | 20      | 33      | 17      | 30      | 23      | 28      | 14      | 19      | 16      | 16      | 24      | 30      | 35      | 34      | 46      |
| 52   | 32      | 20      | 34      | 17      | 30      | 23      | 28      | 14      | 19      | 17      | 16      | 25      | 30      | 35      | 34      | 46      |
| 53   | 32      | 20      | 34      | 16      | 31      | 23      | 29      | 14      | 19      | 16      | 16      | 25      | 30      | 36      | 34      | 47      |
| 54   | 32      | 20      | 33      | 16      | 30      | 23      | 28      | 14      | 19      | 17      | 16      | 24      | 30      | 36      | 33      | 47      |
| 55   | 32      | 20      | 32      | 16      | 30      | 23      | 27      | 14      | 19      | 16      | 16      | 23      | 30      | 35      | 33      | 46      |
| 56   | 32      | 20      | 32      | 17      | 30      | 23      | 28      | 14      | 19      | 17      | 16      | 24      | 30      | 35      | 34      | 46      |
| 57   | 32      | 21      | 32      | 17      | 31      | 23      | 28      | 14      | 19      | 17      | 16      | 24      | 30      | 35      | 33      | 46      |
| 58   | 32      | 21      | 32      | 17      | 31      | 23      | 28      | 14      | 19      | 17      | 16      | 24      | 31      | 35      | 34      | 46      |
| 59   | 33      | 21      | 33      | 17      | 31      | 23      | 28      | 14      | 20      | 17      | 16      | 24      | 31      | 36      | 34      | 47      |

| Time | Chan 54 | Chan 55 | Chan 56 | Chan 57 | Chan 58 | Chan 59 | Chan 60 | Chan 61 | Chan 62 | Chan 63 | Chan 64 | Chan 65 | Chan 66 | Chan 67 | Chan 68 | Chan 69 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 60   | 33      | 21      | 33      | 17      | 31      | 24      | 28      | 14      | 20      | 17      | 16      | 25      | 31      | 36      | 35      | 48      |
| 61   | 33      | 21      | 34      | 17      | 31      | 24      | 29      | 14      | 20      | 17      | 16      | 25      | 32      | 37      | 35      | 48      |
| 62   | 33      | 21      | 35      | 17      | 32      | 24      | 30      | 14      | 20      | 17      | 16      | 25      | 31      | 36      | 36      | 48      |
| 63   | 33      | 21      | 34      | 17      | 32      | 24      | 29      | 14      | 20      | 17      | 16      | 25      | 32      | 37      | 36      | 48      |
| 64   | 33      | 21      | 34      | 17      | 33      | 24      | 29      | 14      | 20      | 17      | 16      | 25      | 32      | 37      | 36      | 49      |
| 65   | 33      | 22      | 35      | 17      | 33      | 24      | 30      | 14      | 20      | 17      | 17      | 26      | 32      | 38      | 36      | 50      |
| 66   | 34      | 21      | 36      | 17      | 33      | 25      | 31      | 14      | 20      | 17      | 16      | 26      | 33      | 38      | 37      | 51      |
| 67   | 34      | 21      | 35      | 17      | 33      | 25      | 31      | 14      | 20      | 17      | 17      | 26      | 33      | 38      | 37      | 51      |
| 68   | 34      | 22      | 35      | 17      | 33      | 25      | 30      | 14      | 20      | 17      | 17      | 26      | 33      | 38      | 37      | 50      |
| 69   | 30      | 26      | 29      | 24      | 35      | 28      | 28      | 18      | 21      | 21      | 19      | 22      | 29      | 33      | 30      | 39      |
| 70   | 25      | 22      | 25      | 24      | 34      | 29      | 25      | 17      | 20      | 20      | 19      | 19      | 26      | 28      | 26      | 30      |

| Time | Chan 70 | Chan 71 | Chan 72 | Chan 73 | Chan 74 | Chan 75 | Chan 76 | Chan 77 | Chan 78 | Chan 79 | Chan 80 | Chan 81 | Chan 82 | Chan 83 | Chan 84 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 0    | 14      | 14      | 14      | 14      | 14      | 15      | 14      | 14      | 15      | 15      | 15      | 15      | 14      | 14      | 14      |
| 1    | 15      | 102     | 28      | 103     | 26      | 14      | 105     | 100     | 101     | 104     | 16      | 66      | 83      | 94      | 40      |
| 2    | 20      | 195     | 59      | 168     | 48      | 17      | 92      | 181     | 74      | 188     | 20      | 106     | 115     | 130     | 80      |
| 3    | 24      | 182     | 90      | 248     | 67      | 19      | 106     | 56      | 75      | 144     | 23      | 138     | 187     | 209     | 55      |
| 4    | 32      | 129     | 124     | 237     | 107     | 21      | 133     | 63      | 93      | 156     | 31      | 214     | 151     | 185     | 36      |
| 5    | 36      | 119     | 177     | 215     | 142     | 23      | 220     | 76      | 109     | 187     | 33      | 258     | 77      | 97      | 26      |
| 6    | 38      | 124     | 263     | 213     | 185     | 26      | 274     | 84      | 117     | 200     | 36      | 280     | 42      | 52      | 21      |
| 7    | 42      | 130     | 316     | 217     | 220     | 28      | 297     | 88      | 140     | 214     | 39      | 289     | 28      | 33      | 19      |
| 8    | 45      | 140     | 374     | 237     | 257     | 32      | 324     | 75      | 175     | 237     | 43      | 218     | 22      | 25      | 18      |
| 9    | 49      | 159     | 423     | 252     | 297     | 36      | 365     | 73      | 218     | 266     | 47      | 110     | 20      | 22      | 19      |

| Time | Chan 70 | Chan 71 | Chan 72 | Chan 73 | Chan 74 | Chan 75 | Chan 76 | Chan 77 | Chan 78 | Chan 79 | Chan 80 | Chan 81 | Chan 82 | Chan 83 | Chan 84 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 10   | 56      | 176     | 438     | 275     | 336     | 39      | 418     | 79      | 255     | 299     | 52      | 59      | 20      | 21      | 18      |
| 11   | 59      | 190     | 444     | 301     | 407     | 44      | 468     | 84      | 292     | 329     | 58      | 36      | 20      | 21      | 19      |
| 12   | 62      | 206     | 456     | 333     | 451     | 49      | 470     | 90      | 294     | 323     | 62      | 25      | 20      | 20      | 20      |
| 13   | 66      | 213     | 447     | 350     | 444     | 54      | 449     | 93      | 302     | 330     | 68      | 20      | 20      | 19      | 20      |
| 14   | 67      | 222     | 453     | 367     | 433     | 58      | 424     | 260     | 314     | 341     | 73      | 18      | 19      | 19      | 20      |
| 15   | 71      | 234     | 465     | 383     | 439     | 65      | 294     | 203     | 315     | 307     | 78      | 18      | 20      | 19      | 21      |
| 16   | 71      | 239     | 479     | 401     | 451     | 70      | 247     | 199     | 295     | 284     | 83      | 17      | 20      | 20      | 21      |
| 17   | 73      | 242     | 489     | 413     | 469     | 74      | 240     | 205     | 287     | 278     | 87      | 17      | 21      | 20      | 20      |
| 18   | 72      | 252     | 500     | 422     | 486     | 79      | 244     | 212     | 290     | 280     | 92      | 17      | 22      | 22      | 21      |
| 19   | 74      | 265     | 511     | 434     | 489     | 79      | 252     | 216     | 299     | 289     | 96      | 18      | 24      | 24      | 22      |
| 20   | 76      | 277     | 519     | 452     | 505     | 82      | 256     | 220     | 310     | 298     | 100     | 18      | 25      | 25      | 24      |
| 21   | 80      | 283     | 523     | 464     | 518     | 81      | 269     | 221     | 318     | 306     | 104     | 18      | 26      | 25      | 25      |
| 22   | 85      | 282     | 531     | 473     | 523     | 81      | 280     | 228     | 331     | 315     | 108     | 18      | 26      | 25      | 25      |
| 23   | 87      | 293     | 536     | 478     | 529     | 82      | 278     | 234     | 325     | 311     | 111     | 18      | 24      | 24      | 25      |
| 24   | 91      | 303     | 545     | 481     | 538     | 85      | 282     | 239     | 320     | 311     | 113     | 18      | 24      | 24      | 25      |
| 25   | 95      | 309     | 554     | 273     | 548     | 86      | 291     | 244     | 332     | 321     | 115     | 18      | 24      | 24      | 25      |
| 26   | 88      | 321     | 559     | 245     | 557     | 89      | 239     | 250     | 343     | 326     | 117     | 19      | 24      | 24      | 26      |
| 27   | 84      | 324     | 563     | 246     | 563     | 89      | 312     | 249     | 375     | 345     | 119     | 19      | 24      | 24      | 27      |
| 28   | 87      | 329     | 572     | 254     | 576     | 91      | 316     | 251     | 389     | 360     | 122     | 19      | 25      | 24      | 27      |
| 29   | 86      | 343     | 579     | 270     | 584     | 93      | 317     | 252     | 365     | 365     | 123     | 19      | 25      | 24      | 28      |
| 30   | 85      | 352     | 582     | 278     | 590     | 189     | 327     | 197     | 371     | 374     | 126     | 19      | 26      | 25      | 28      |
| 31   | 97      | 179     | 499     | 279     | 583     | 41      | 335     | 115     | 391     | 386     | 104     | 20      | 27      | 26      | 29      |
| 32   | 48      | 91      | 216     | 98      | 265     | 31      | 191     | 28      | 237     | 219     | 59      | 20      | 28      | 27      | 29      |
| 33   | 22      | 55      | 71      | 32      | 90      | 29      | 95      | 26      | 120     | 109     | 41      | 21      | 29      | 28      | 29      |

| Time | Chan 70 | Chan 71 | Chan 72 | Chan 73 | Chan 74 | Chan 75 | Chan 76 | Chan 77 | Chan 78 | Chan 79 | Chan 80 | Chan 81 | Chan 82 | Chan 83 | Chan 84 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 34   | 17      | 41      | 22      | 30      | 40      | 25      | 54      | 25      | 68      | 62      | 33      | 21      | 29      | 28      | 30      |
| 35   | 17      | 26      | 21      | 34      | 28      | 23      | 35      | 23      | 41      | 40      | 30      | 21      | 29      | 29      | 30      |
| 36   | 17      | 27      | 27      | 33      | 29      | 26      | 33      | 26      | 35      | 34      | 29      | 22      | 29      | 29      | 31      |
| 37   | 17      | 28      | 31      | 35      | 30      | 28      | 32      | 28      | 33      | 33      | 29      | 22      | 30      | 29      | 32      |
| 38   | 18      | 36      | 34      | 33      | 31      | 28      | 33      | 28      | 34      | 34      | 29      | 22      | 30      | 29      | 33      |
| 39   | 18      | 30      | 31      | 29      | 28      | 28      | 32      | 25      | 34      | 34      | 29      | 22      | 31      | 30      | 33      |
| 40   | 18      | 25      | 26      | 29      | 25      | 27      | 31      | 23      | 33      | 35      | 28      | 22      | 32      | 31      | 32      |
| 41   | 18      | 23      | 25      | 28      | 25      | 26      | 30      | 23      | 32      | 34      | 28      | 22      | 33      | 31      | 32      |
| 42   | 18      | 22      | 25      | 28      | 25      | 28      | 31      | 23      | 32      | 34      | 28      | 22      | 33      | 31      | 32      |
| 43   | 18      | 32      | 27      | 32      | 28      | 28      | 32      | 26      | 32      | 34      | 28      | 22      | 33      | 31      | 32      |
| 44   | 18      | 40      | 31      | 34      | 30      | 29      | 33      | 27      | 34      | 34      | 28      | 22      | 33      | 30      | 34      |
| 45   | 18      | 43      | 33      | 34      | 31      | 29      | 34      | 27      | 34      | 34      | 28      | 23      | 33      | 31      | 35      |
| 46   | 17      | 46      | 36      | 35      | 33      | 31      | 35      | 29      | 36      | 36      | 29      | 23      | 34      | 31      | 33      |
| 47   | 17      | 47      | 36      | 35      | 33      | 30      | 35      | 30      | 37      | 36      | 29      | 22      | 33      | 30      | 31      |
| 48   | 17      | 48      | 37      | 35      | 33      | 30      | 36      | 30      | 39      | 35      | 27      | 22      | 33      | 30      | 28      |
| 49   | 17      | 50      | 39      | 36      | 34      | 32      | 38      | 32      | 40      | 36      | 27      | 22      | 35      | 30      | 26      |
| 50   | 17      | 50      | 38      | 37      | 34      | 28      | 37      | 32      | 40      | 35      | 27      | 23      | 36      | 30      | 26      |
| 51   | 17      | 50      | 38      | 37      | 34      | 32      | 37      | 33      | 40      | 35      | 27      | 23      | 36      | 30      | 27      |
| 52   | 17      | 52      | 39      | 38      | 35      | 32      | 39      | 33      | 41      | 36      | 27      | 23      | 37      | 30      | 27      |
| 53   | 17      | 53      | 39      | 38      | 36      | 33      | 40      | 34      | 42      | 36      | 27      | 23      | 37      | 30      | 26      |
| 54   | 17      | 51      | 39      | 37      | 34      | 31      | 39      | 32      | 41      | 35      | 27      | 23      | 37      | 30      | 26      |
| 55   | 17      | 51      | 39      | 36      | 33      | 32      | 39      | 31      | 41      | 35      | 27      | 23      | 37      | 30      | 27      |
| 56   | 17      | 53      | 41      | 38      | 35      | 34      | 41      | 33      | 42      | 36      | 27      | 23      | 37      | 30      | 27      |
| 57   | 17      | 53      | 41      | 38      | 34      | 34      | 41      | 32      | 43      | 37      | 27      | 24      | 37      | 30      | 27      |

| Time | Chan 70 | Chan 71 | Chan 72 | Chan 73 | Chan 74 | Chan 75 | Chan 76 | Chan 77 | Chan 78 | Chan 79 | Chan 80 | Chan 81 | Chan 82 | Chan 83 | Chan 84 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| min  | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      | °C      |
| 58   | 17      | 53      | 41      | 38      | 34      | 34      | 41      | 32      | 43      | 37      | 27      | 24      | 38      | 31      | 27      |
| 59   | 17      | 53      | 41      | 38      | 34      | 33      | 41      | 33      | 43      | 37      | 27      | 24      | 38      | 31      | 27      |
| 60   | 17      | 53      | 41      | 38      | 35      | 34      | 42      | 34      | 43      | 37      | 27      | 24      | 39      | 31      | 28      |
| 61   | 18      | 54      | 41      | 48      | 35      | 34      | 42      | 34      | 44      | 38      | 27      | 24      | 39      | 31      | 28      |
| 62   | 18      | 56      | 43      | 48      | 37      | 38      | 44      | 35      | 46      | 39      | 28      | 24      | 39      | 31      | 28      |
| 63   | 18      | 56      | 43      | 45      | 37      | 35      | 43      | 35      | 46      | 39      | 28      | 24      | 39      | 32      | 28      |
| 64   | 18      | 57      | 44      | 44      | 37      | 36      | 44      | 35      | 46      | 39      | 28      | 24      | 39      | 32      | 28      |
| 65   | 18      | 57      | 44      | 42      | 37      | 36      | 44      | 36      | 47      | 40      | 28      | 25      | 40      | 32      | 28      |
| 66   | 18      | 57      | 44      | 43      | 38      | 36      | 44      | 37      | 47      | 40      | 28      | 25      | 40      | 32      | 28      |
| 67   | 18      | 58      | 44      | 42      | 38      | 36      | 44      | 36      | 47      | 40      | 28      | 25      | 40      | 32      | 29      |
| 68   | 18      | 58      | 45      | 43      | 38      | 37      | 45      | 37      | 47      | 40      | 28      | 25      | 41      | 33      | 28      |
| 69   | 19      | 45      | 24      | 29      | 31      | 27      | 25      | 36      | 39      | 34      | 24      | 24      | 33      | 29      | 28      |
| 70   | 17      | 34      | 22      | 23      | 26      | 22      | 22      | 21      | 31      | 29      | 21      | 21      | 26      | 26      | 23      |