

Guide to F280-12 Formset Ver 24.06

CSA F280-12 Formset (current Version = 24.07)

- ✓ Compliance Page
- ✓ Input Summary
- ✓ Room by Room results

Note:

Each cell in the formset has a code in the lower right-hand corner. This code is referenced in the companion document ***F280-FormsKeyV24.7.pdf***. The FormsKey document lists the content expected in the cell and gives examples or the range or values expected.

COMPLIANCE PAGE

1) Title Bar

The title bar lists the NBC & BCBC Sentences which reference CSA F280-12 for determination of HVAC Appliance Capacity. The sentences are found in the Part 9 HVAC requirements as well as the Energy Efficiency Requirements of each code.

2) Copyright Notice

The notice below the title bar establishes the copyright of the documents as between the designer and their client.

3) Building Location

This section is provided to record the normal information concerning Building Location.

4) Compliance

The check boxes here indicate whether the submittal is for “Whole House” or “Room by Room”. Note that for Whole House submittals, page 3 (Room by Room Results) is not required.

5) Heating

This provides a place to set out the Minimum Heating Capacity as calculated according to the standard. The relevant sentences from F280 are noted.

6) Cooling

This section provides a place to set out the three cooling values which arise from a completed cooling calculation according to the standard. The relevant F280 sentences are noted.

7) Attached Documents & Notes

This provides a place to notify the reader of the attached documents which form part of the submittal. The “Design Summary” should always be attached. If the submittal is Room by Room then the Room by Room Results sheet should be attached. Often a reference set of plans or drawings are attached. Other attachments may include detailed Effective R-Value calculations and/or Supplier’s data on insulation, window or door products.

8) Calculations Performed By

This area has three sections left to right:

- a) Contact Info
- b) Signature and/or Stamp
- c) Responsibility Statement; This area also provides a place for the relevant accreditation references, but these may also appear in the Signature or Stamp area.
- d) Issue Dates appear under the Responsibility Statement and the accreditation references

9) Software Information

The bottom section provides a place for the software provider to place their information as well as the “Verified Software” label.

INPUT SUMMARY

1) Header

The header repeats the copyright info as well as the building location info from the cover page.

2) Calculation Based On

This section contains all of the input values needed for a valid F280 calculation

- a) The “Dimension info based on” cell is expected to reference architectural plans or site measurements depending on the circumstance.
- b) Heating & Cooling Design Conditions are based on the location of the building
- c) Assembly Description cells are available for three distinct assemblies for each building envelope component including windows, skylights and Doors.

ROOM by ROOM CALCULATION RESULTS

1) Header

The header repeats the copyright info as well as the building location info from the cover page.

2) Calculation Results

- a) It is expected that each room will be listed by number and the calculated heating and cooling values for each of the rooms listed. There is space for 39 rooms and if there are more rooms, it is expected that two Room by Room sheets will be submitted.
- b) Ventilation Loss & Latent Gain are sometimes included in the values for each room but are sometimes reported separately. In the event they are reported separately, these values are found in the row under the last room and are added to the total of the room values to equal the Total Building Loss and the Nominal Cooling Capacity.