

# I-B-R CALCULATION SHEET

INSTALLER \_\_\_\_\_ OWNER \_\_\_\_\_ DATE \_\_\_\_\_  
 TYPE OF BUILDING \_\_\_\_\_ CONSTRUCTION \_\_\_\_\_

DESIGN TEMPERATURE DIFFERENCE \_\_\_\_\_ F.

| COL. A |                                       | COL. B |   |   | COL. C           |   |   | COL. D |                  |   | COL. E |   |                  | COL. F |   |   |
|--------|---------------------------------------|--------|---|---|------------------|---|---|--------|------------------|---|--------|---|------------------|--------|---|---|
| 1      | ROOM                                  | H      | W | L | H                | W | L | H      | W                | L | H      | W | L                | H      | W | L |
| 2      | ROOM DIMENSIONS, FT.                  |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 3      | LENGTH EXPOSED WALLS, FT.             |        |   |   | BTUH<br>REQUIRED |   |   |        | BTUH<br>REQUIRED |   |        |   | BTUH<br>REQUIRED |        |   |   |
| 4      | GROSS WALL AREA, SQ. FT.              |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 5      | GLASS AREA, SQ. FT.                   |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 6      | NET WALL AREA, SQ. FT.                |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 7      | CEILING AREA, SQ. FT.                 |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 8      | FLOOR AREA, SQ. FT. †                 |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 9      | ROOM VOLUME FOR INFILTRATION CU. FT.  |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 10     | TOTAL BTUH AT 70F TEMP. DIFFERENCE*   |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 11     | TOTAL BTUH AT DESIGN TEMP. DIFFERENCE |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
| 12     | HEAT DISTRIBUTING UNITS               |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |

Room Totals from Line 11

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

F \_\_\_\_\_

G \_\_\_\_\_

| COL. A |                                       | COL. G |   |   | COL. H           |   |   | COL. I |                  |   | COL. J |   |                  | COL. K |   |   |
|--------|---------------------------------------|--------|---|---|------------------|---|---|--------|------------------|---|--------|---|------------------|--------|---|---|
| 1      | ROOM                                  | H      | W | L | H                | W | L | H      | W                | L | H      | W | L                | H      | W | L |
| 2      | ROOM DIMENSIONS, FT.                  |        |   |   |                  |   |   |        |                  |   |        |   |                  |        |   |   |
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TOTAL BTUH OF BUILDING AT DESIGN TEMP. DIFFERENCE

\*INCREASE BATHROOM TOTAL 30%

†FOR CONCRETE FLOOR ON GROUND OR FILL AT GRADE LEVEL, USE LINEAR FEET OF EXPOSED EDGE

# Manual J Calculator Spreadsheet

**Liying Dong**



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