

FLUSHGLAZED 3400 SERIES THERMAL SIMULATION CHART

THERMAL SIMULATION CHARTS READING GUIDE

THE FOLLOWING THERMAL CHARTS ARE TO BE USED TO DETERMINE OVERALL U VALUE OF THE PRODUCT BY KNOWING U VALUE CENTER OF GLASS AND SELECTED SPACER OR DETERMINE CENTER OF GLASS U VALUE AND SPACER BY KNOWING THE PRODUCT REQUIREMENTS FOR U VALUE.

DETERMINE CENTER OF GLASS U VALUE

- 1) Choose the total system U value from the chart below (vertical axis).
- 2) Based on this point come across horizontally until you reach the specific spacer bar (metallic or non-metallic)
- 3) From this point come down vertically until you reach the horizontal axis and your center of glass U value

DETERMINE TOTAL SYSTEM U VALUE

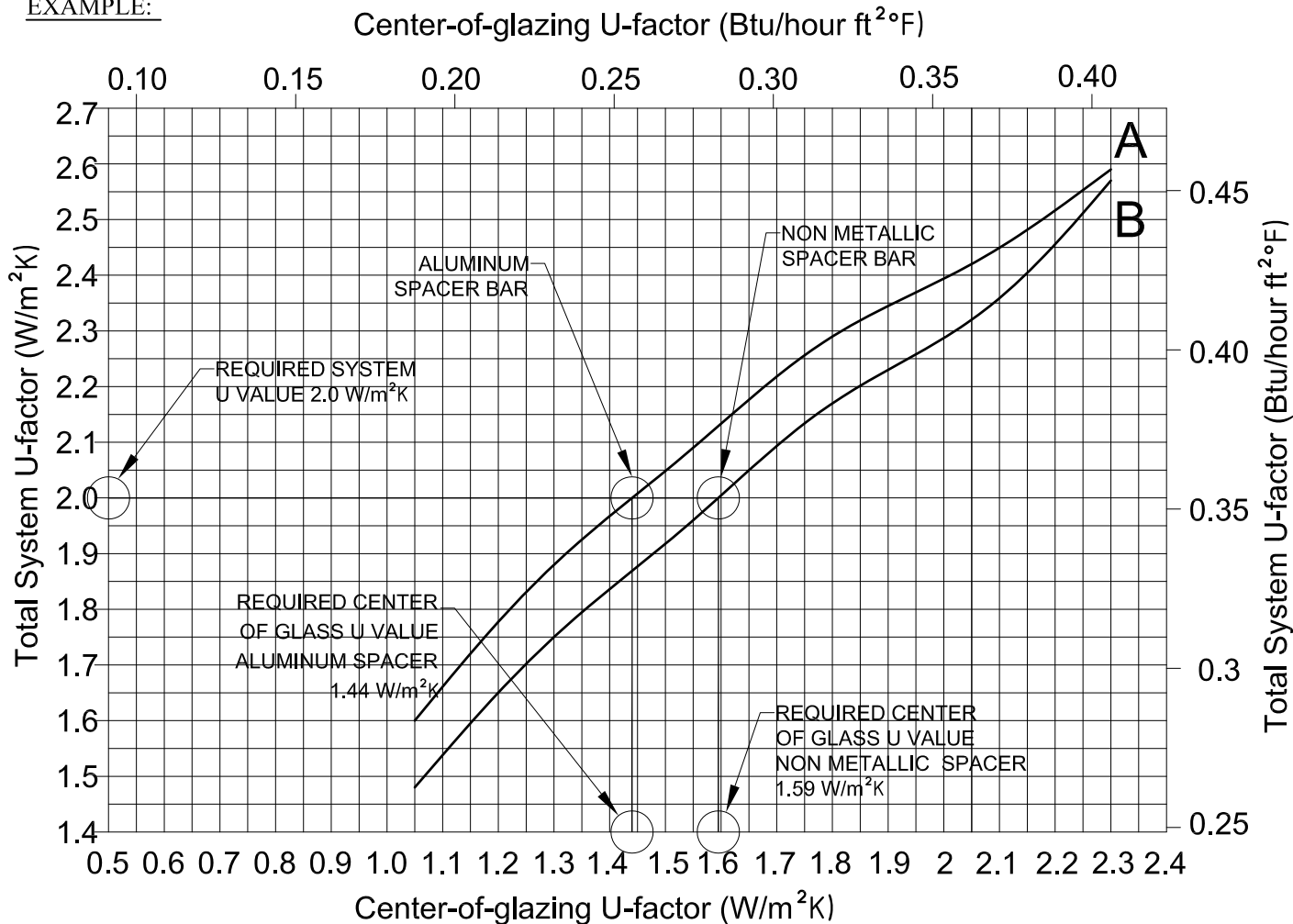
- 1) Choose your center of glass U value from the chart below (horizontal axis).
- 2) Based on this point come up vertically until you reach the specific spacer bar (metallic or non-metallic)
- 3) From this point come across horizontally until you reach the vertical axis and your total system U value

A = Double glazed with Generic Group1
-Spacer containing aluminum

B = Double glazed with Generic Group4
-Spacer containing all non metallic materials

CHART BASED ON 1" (25.4 mm)
DOUBLE GLAZED SEALED UNIT

EXAMPLE:



ENVIRONMENTAL CONDITIONS: NFRC 100-2001

Inside Air Temperature	Outside Air Temperature	Outside Wind Speed
21° C	-18° C	5.5 m/c

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DOUBLE GLAZED

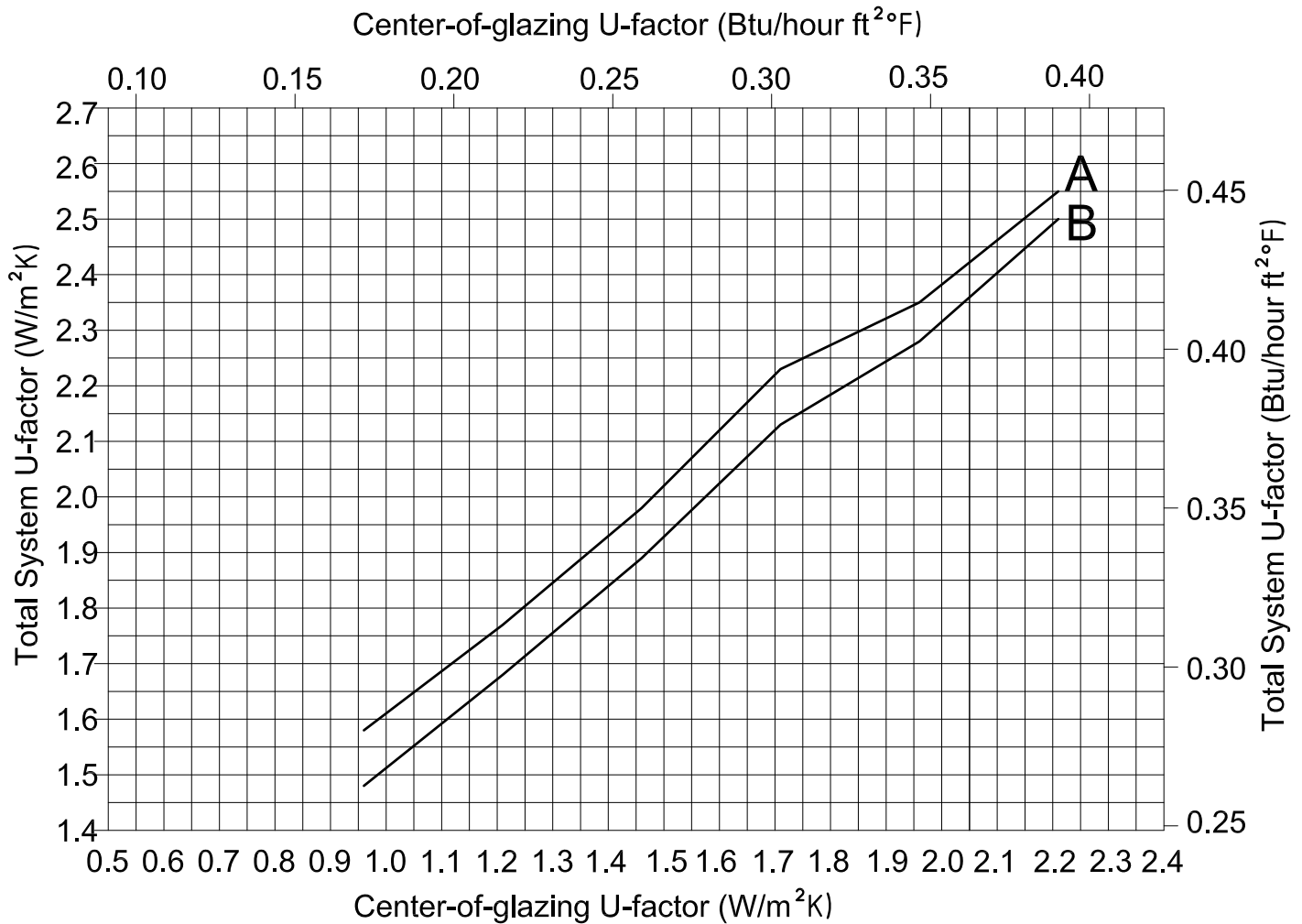
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- CURVES REPRESENT INDEPENDENTLY TESTED SIMULATION RESULTS BASED ON DOUBLE GLAZING OPTIONS USING THE LOWEST (CURVE A) AND HIGHEST (CURVE B) PERFORMING SPACERS. SPACER CONDUCTANCE VALUES ARE BASED ON NFRC 100-2010 SECTION 5.9.5.1.
- SIMULATION METHODOLOGY FOLLOWED NFRC 100-2010
- SIMULATED STOREFRONT SYSTEM IS 2000mmx2000mm BETWEEN MULLION CENTERS WITH ONE VERTICAL CENTRAL MULLION AS PER NFRC100-2010 Table 4.3.
- THE CHARTS SHOULD BE USED AS A BUDGET OR DESIGN GUIDE. FOR FENESTRATION PRODUCT U-FACTOR AND RATING PURPOSES.

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