

TECH TALK

Product: Dibond® **Date:** July 11, 2005
Subject: Deflection Data **Revision:**
Number: D16 **Pages:** 4

Dibond® Deflection Data

Deflections of Dibond® material under load are demonstrated by the following charts. The charts were developed to demonstrate the amount of spacing between supports across the short dimension of the panel in comparison to the panel deflection.

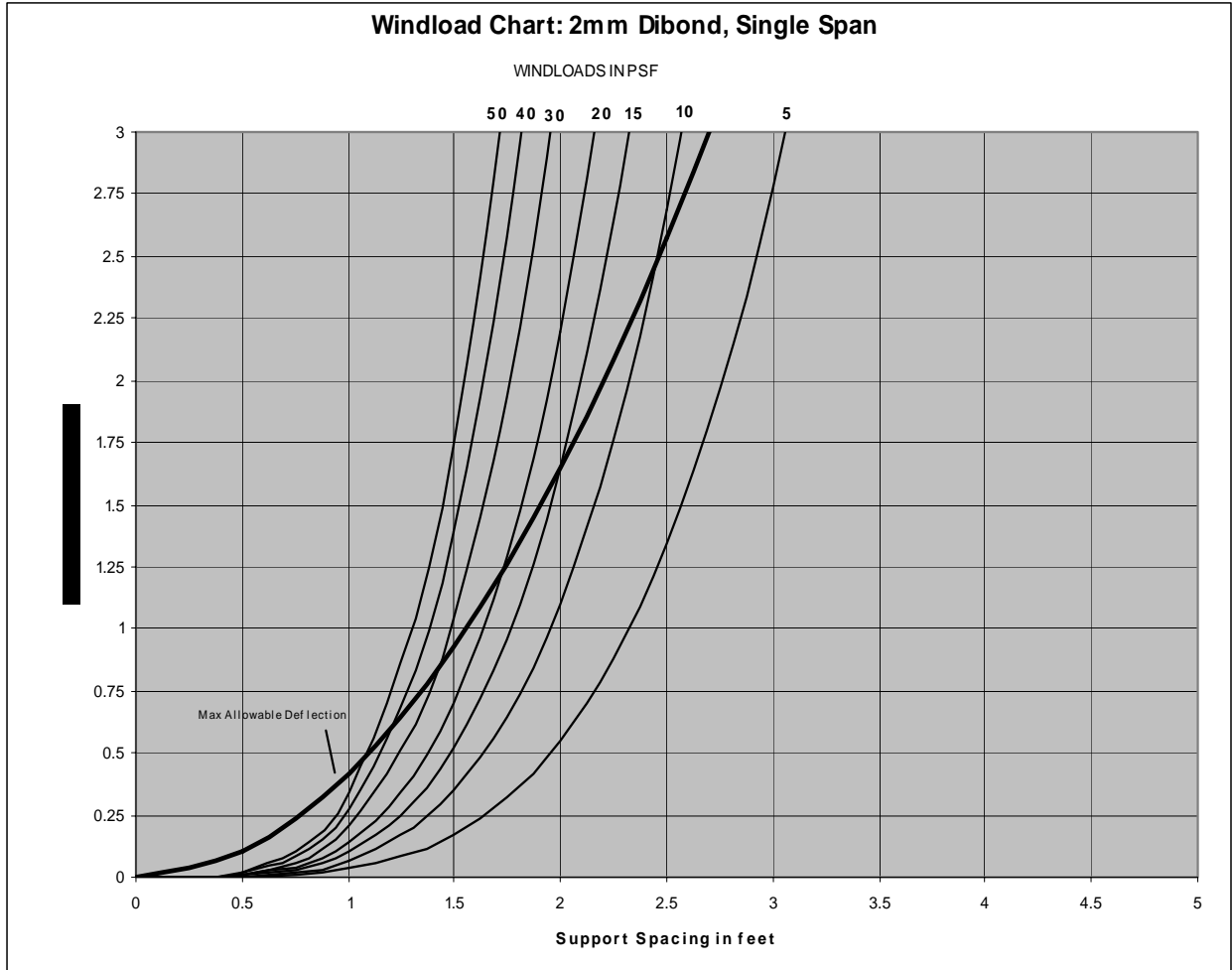
Deflections in excess of 2” should not be allowed in any case as this may result in permanent deformation of the aluminum skins.

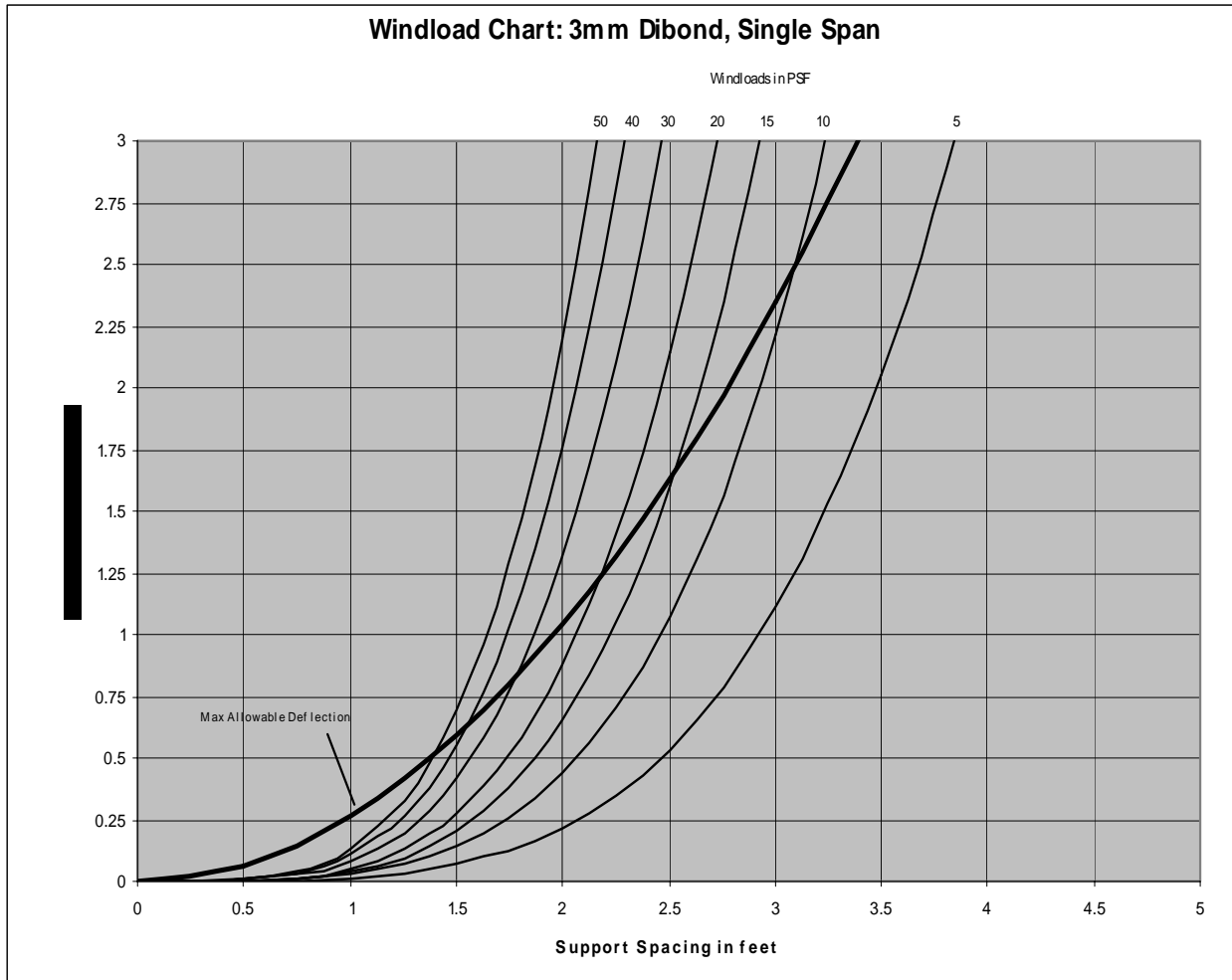
To determine support spacing, choose the chart for the appropriate Dibond® thickness. Locate the wind load curve (provided in psf) at the top of the chart (this data is normally available from local building code officials). Follow the curved line for the chosen wind load until it is below the bold “Maximum Allowable Deflection” line on the chart. Once it is below this line, follow the point on the graph straight down to determine the minimum support spacing.

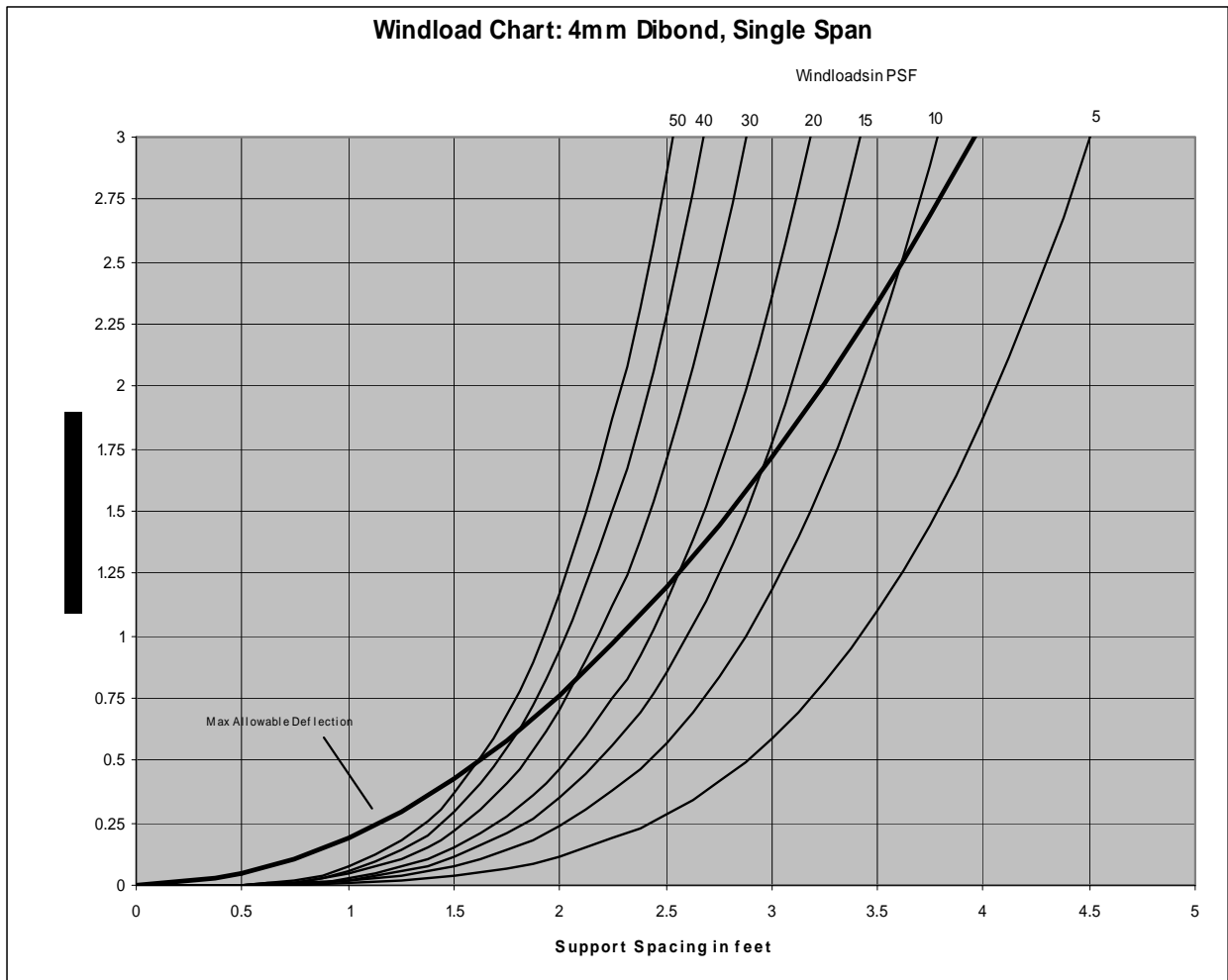
For example:

What is the minimum support spacing needed for 3mm Dibond® with a designated wind load of 20 psf?

Locate the 20 psf wind load curve on the 3mm Dibond® chart. Follow the curve until it is below the bold Maximum Allowable Deflection line on the chart. Once this point is located, follow a line going straight down. The maximum spacing is approximately 2.1 feet with a corresponding deflection of slightly over 1”.







This Tech Talk has been developed to transmit information and assist end-users to work with Dibond® material in the most efficient and effective manner. The data contained in this Tech Talk is based on information that is, in our opinion, reliable. However, since skill, judgment, and quality of equipment and materials is involved and is beyond the control of Alcan Composites USA, Inc., the information provided is without guarantee. We recommend that prospective users determine the suitability of the material and suggestions before adopting them on a commercial scale. **Alcan Composites USA, Inc. does not make any warranties, express or implied including merchantability and fitness for purpose, with respect to any said suggestions and product data.** In no event shall Alcan Composites USA, Inc. have any liability in any way related to or arising out of said suggestions and product data for direct, special, consequential or any other damages of any kind regardless whether such liability is based on breach of contract, negligence or other tort, or breach of any warranty, express or implied.