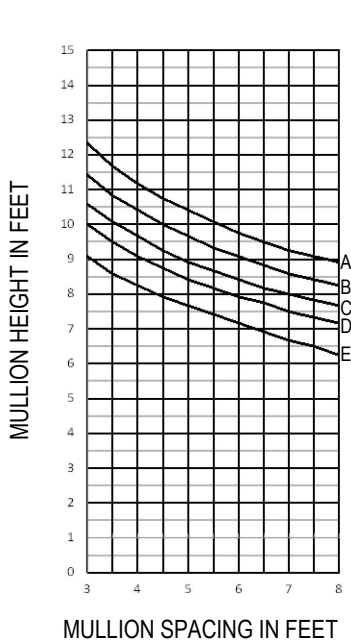


# Windload Charts | AFG451T Series

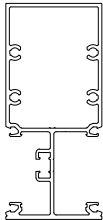
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Offset Glazed For 1" Glass  
 B = 20 P.S.F. (958 Pa) Function: Storefront  
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria  
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.  
 E = 40 P.S.F. (1915 Pa)

SHEET 1 OF 4

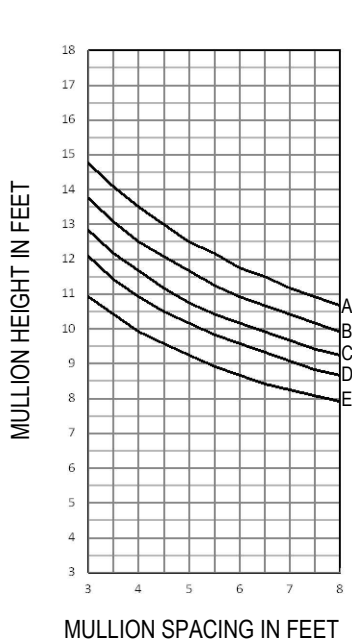


$$I = 2.951 \text{ IN}^4$$

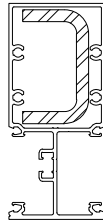
$$S = 1.275 \text{ IN}^3$$



TB251

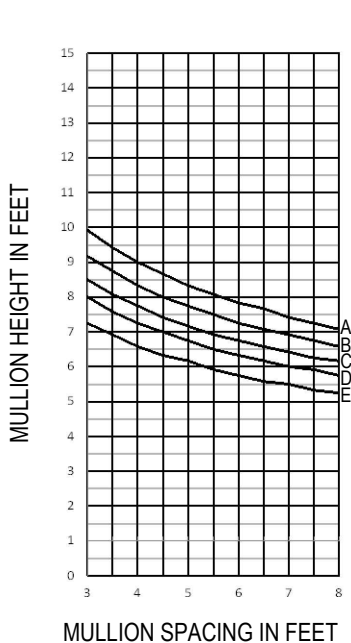


$$I = 5.161 \text{ IN}^4$$



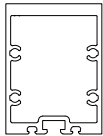
TB251 WITH  
STEEL REINFORCEMENT  
1 3/8" X 2 3/8" X 1/4"

- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to be derived per Aluminum Design Manual. Deflection limitation of mullions shall be in accordance with AAMA TIR-A11 of L/175 for spans up to 13'-6" and L/240 + 1/4" for all others where L is equal to the span of mullion.
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- Windload pressure determinations shall be per ASCE 7 and according to local governing codes. A professional engineer shall be consulted for the most current laws and local building codes.
- Selection of perimeter fasteners and attachment of glazing system to building structure are project specific and therefore shall be reviewed and determined by a design professional.
- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.

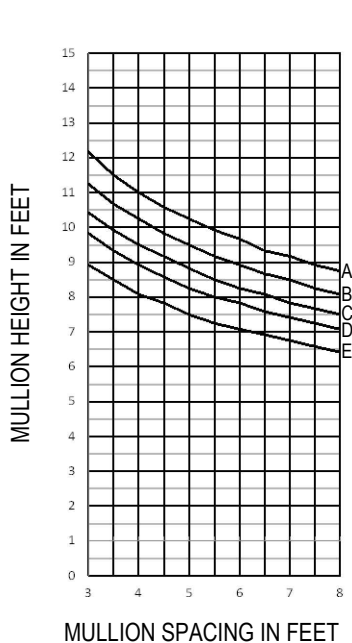


$$I = 1.526 \text{ IN}^4$$

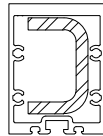
$$S = 1.055 \text{ IN}^3$$



TB555

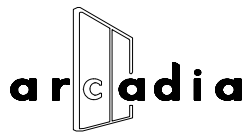


$$I = 2.818 \text{ IN}^4$$



TB555 WITH  
STEEL REINFORCEMENT  
1 1/4" X 2" X 1/4"

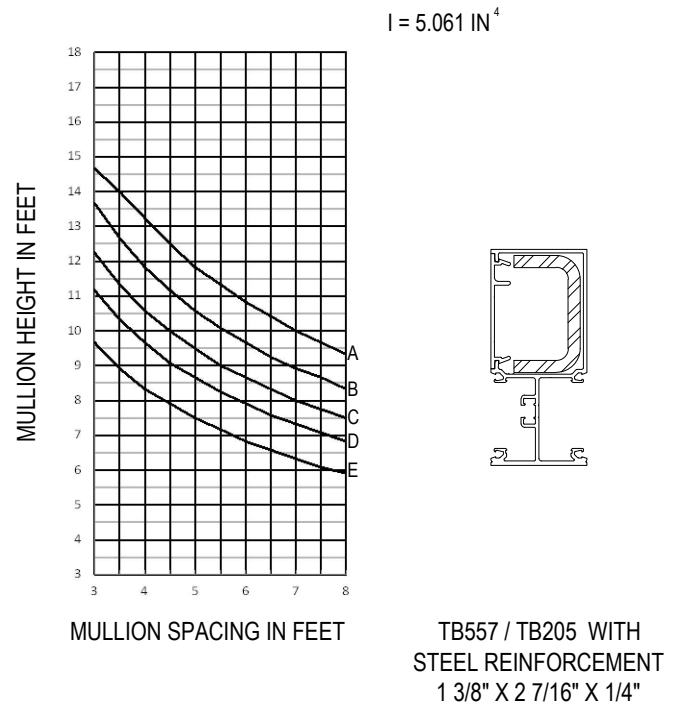
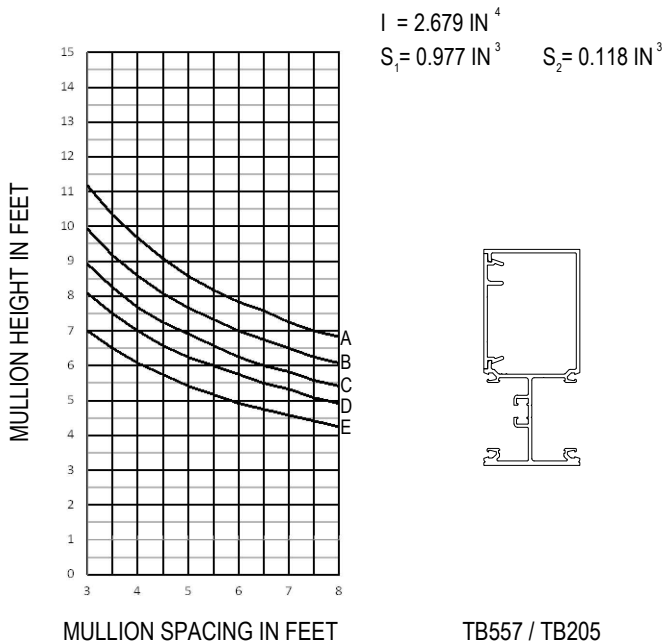
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



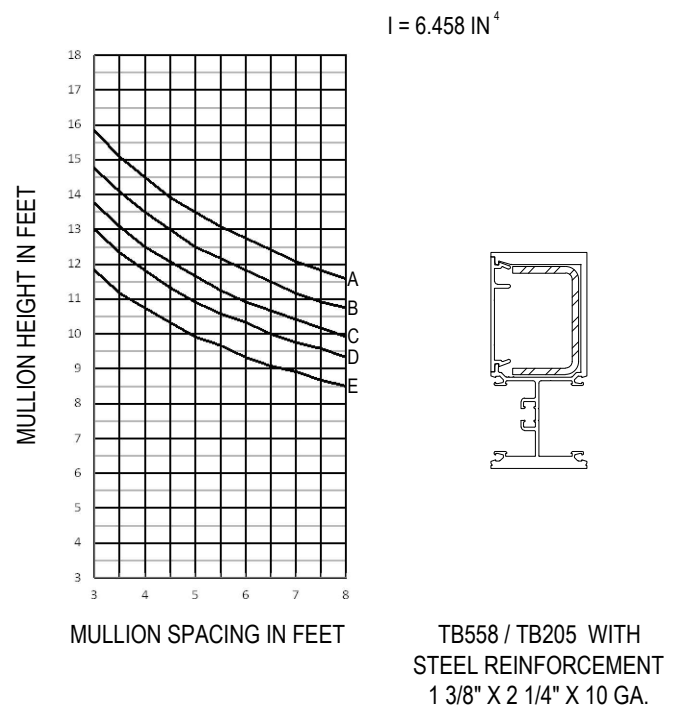
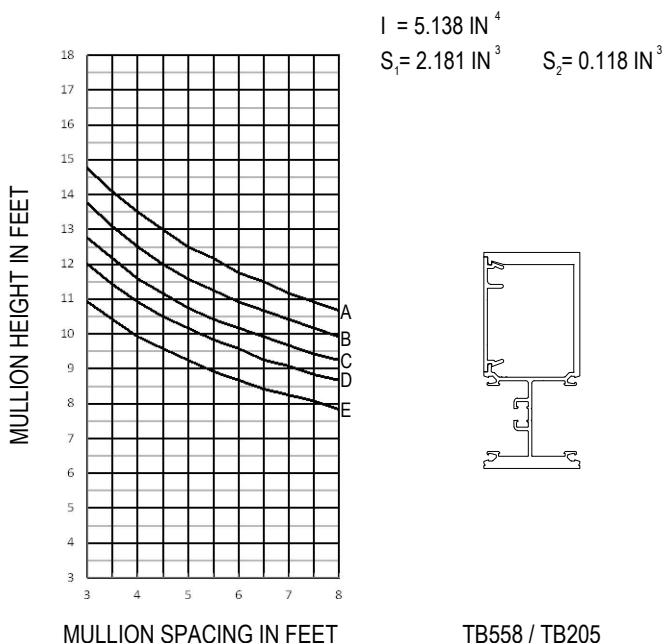
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 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.  
 E = 40 P.S.F. (1915 Pa)

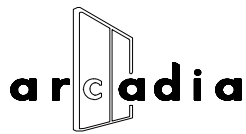
SHEET 2 OF 4



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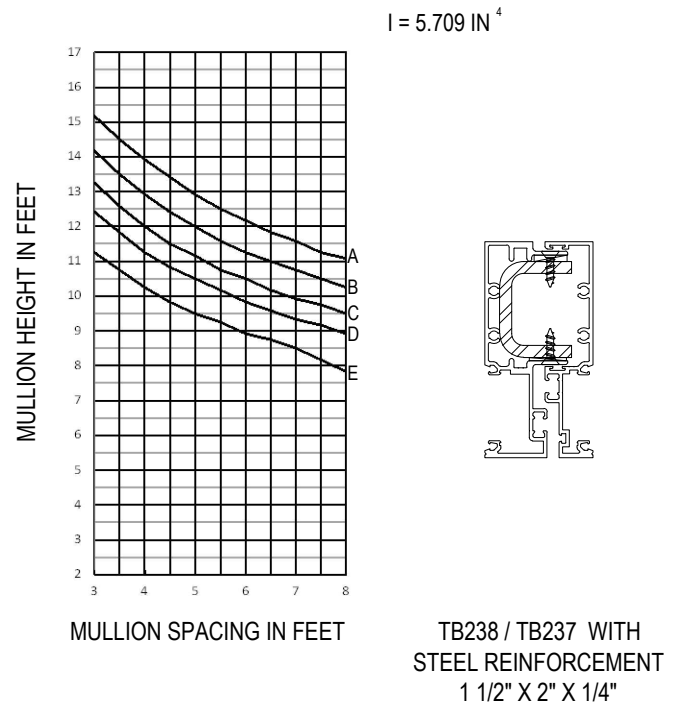
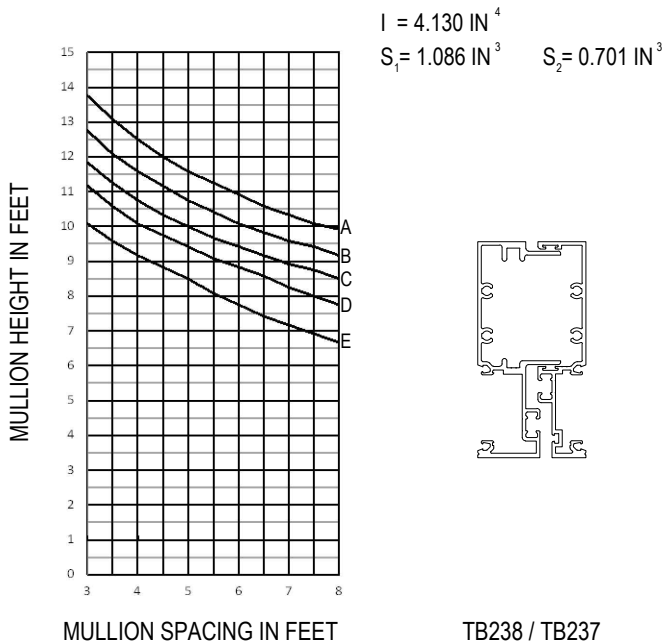
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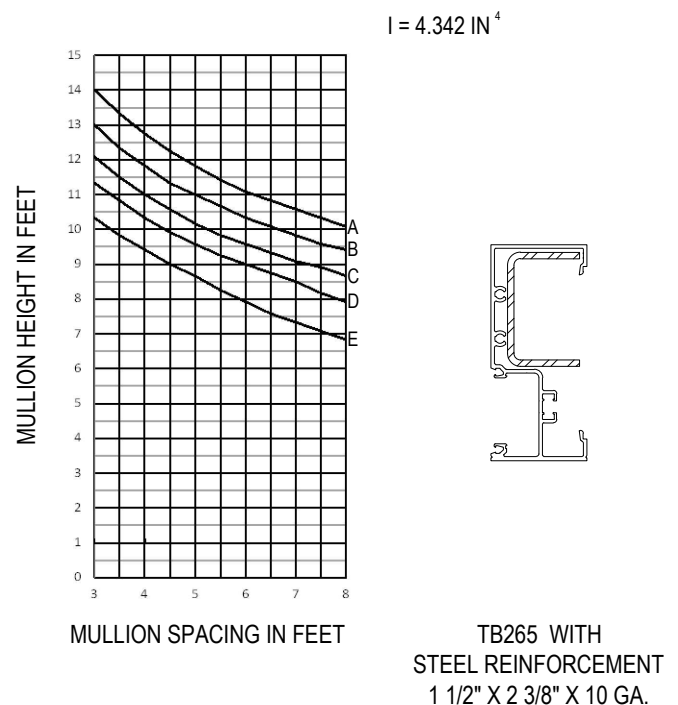
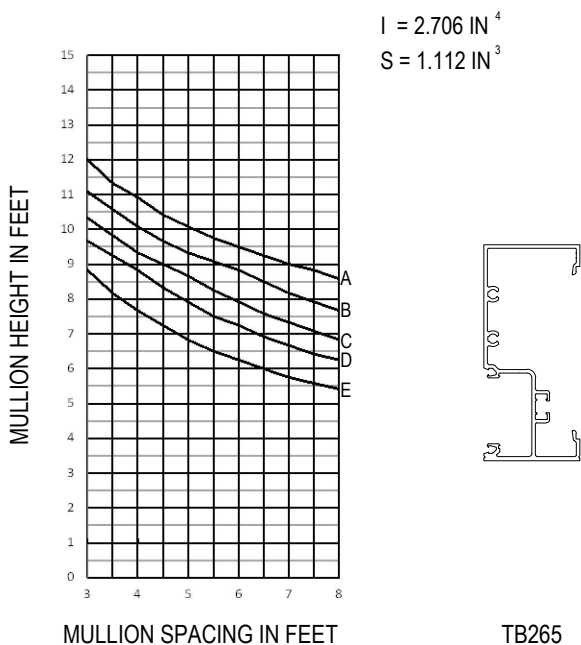
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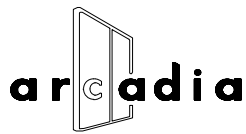
SHEET 3 OF 4



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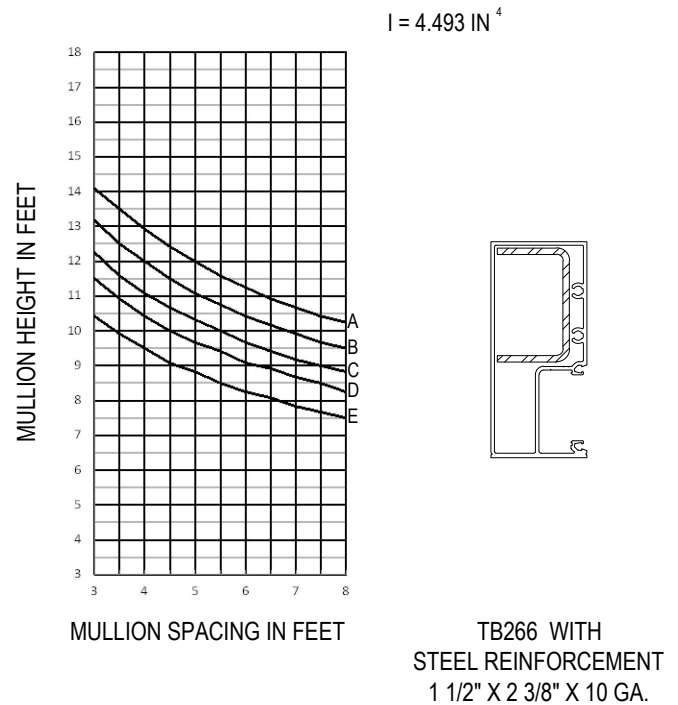
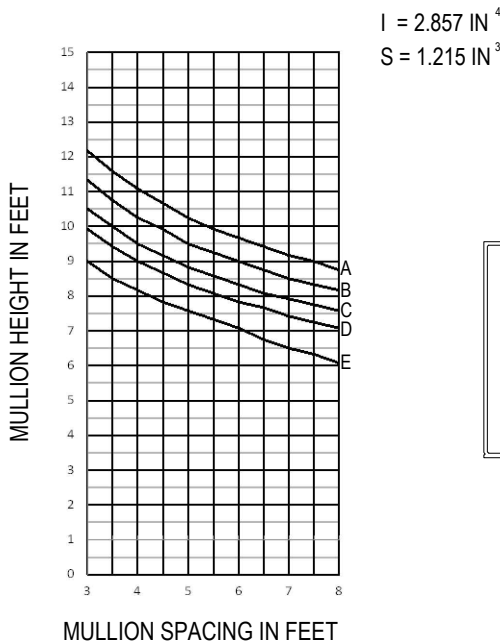
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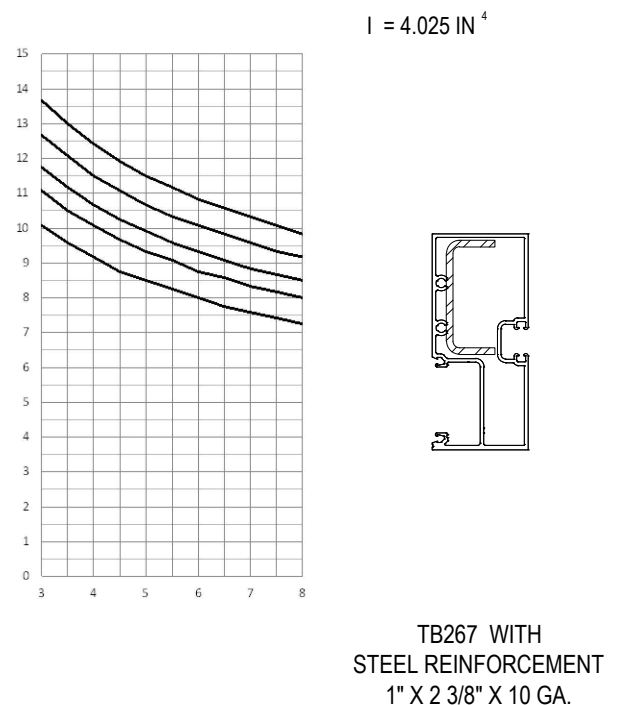
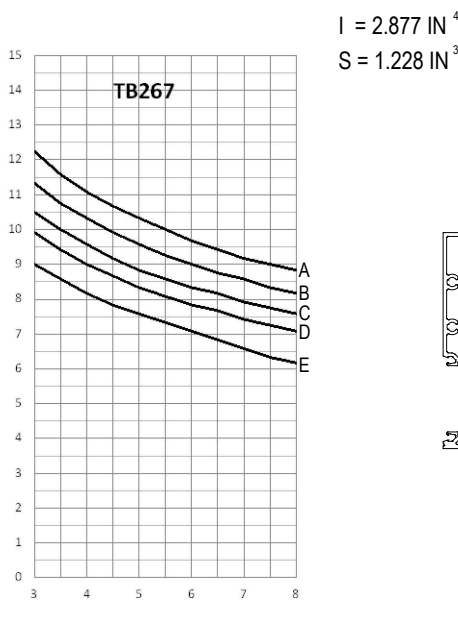
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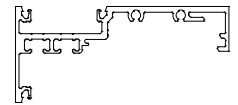
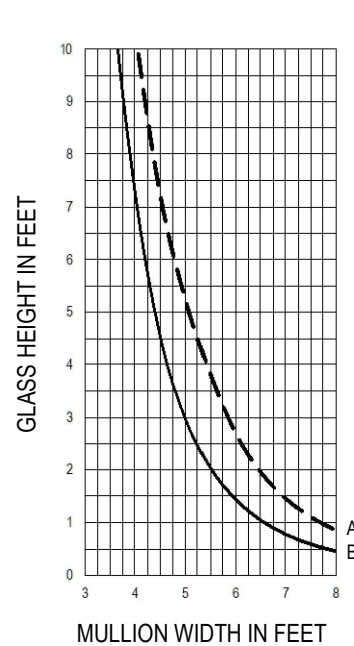
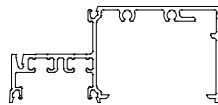
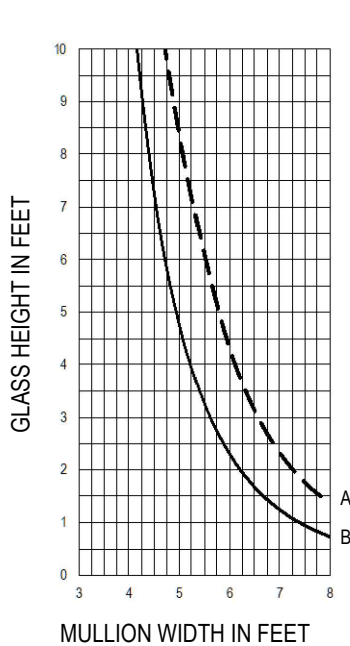
SHEET 4 OF 4



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## CURVE REPRESENTATION

A (----) = 1/8 PTS.

B (—) = 1/4 PTS.

