



# INNOVATIVE GLASS PRODUCTS

SLS-106

## IG Square Foot Limits

IG Construction	ANNEALED GLASS		HEAT STRENGTHENED or TEMPERED GLASS		Squareness Factor	
	Maximum Square Footage	Maximum Length	Maximum Square Footage	Max Short Dimension (inches)	Maximum Length	
2.2mm/2.2mm	10	72 inches	NA	NA	72 inches	
3.0mm/3.0mm	15	82 inches	20	36*	84 inches	
3.9mm/3.9mm	24	90 inches	30	48	96 inches	
4.7mm/4.7mm	33	100 inches	50	60	100 inches	
5.7mm/5.7mm	50	120 inches	60	80*	143.5 inches*	

Notes:

\* Width limit at Tomah TG is 72", and the length limit at Tomah TG is 120". The square size at Tomah TG cannot exceed 44" x 44" for 3mm glass. Sizes exceeding 40 x 40 inches get better results using 3.9mm glass.

- 1). Square footage limits are based on handling and manufacturing limits only. The above limits do not take into account windload requirements.
- 2). The squareness factor/oil canning factor for Heat Treated Glass is based on reducing the potential of bi-stable glass (oil canning & soft center).
- 3). All factors must be met for fabrication allowance. For example: An IG unit constructed with 3mm tempered glass that has a dimension of 37" x 74" has a square footage of 19 square feet, and its maximum length is 74 inches. Both of these criteria are under the specified limits for 3mm tempered glass, however, the minimum short dimension is greater than 36 inches, therefore, it does not meet the Squareness Factor.

## Maximum Recommended Sizes for Laminated Glass in Vertical Glazing Applications

Laminated Glass Construction	ANNEALED GLASS		HEAT STRENGTHENED or TEMPERED GLASS		
	Maximum Square Footage	Maximum Length (inches)	Heat Treated Glass .060" Interlayer	Maximum Short Side Dim. (inches)	Max. Length (inches)
2 plies 2.2mm glass	15 square feet	72	20 square feet	NA	81
2 plies 1/8 inch glass	25 square feet	82	30 square feet	36*	91
2 plies 5/32 inch glass	30 square feet	90	35 square feet	48	100
2 plies 3/16 inch glass	35 square feet	100	40 square feet	60	120
2 plies 1/4 inch glass	40 square feet	120	50 square feet	80*	143.5*

Notes:

\* Width limit at Tomah TG is 72", and the length limit at Tomah TG is 120". The square size at Tomah TG cannot exceed 44" x 44" for 3mm glass. Sizes exceeding 40 x 40 inches get better results using 3.9mm glass.

- 1). Square footage limits are based on handling and manufacturing limits only. The above limits do not take into account windload requirements.

## Maximum Recommended Sizes for Laminated Glass in Sloped Glazing Applications

Laminated Glass Construction	MAXIMUM AREA	
	Annealed Glass .030" Interlayer	Heat Treated Glass .060" Interlayer
2 plies 2.2mm glass <sup>2</sup>	10 square feet	20 square feet
2 plies 1/8 inch glass	12 square feet	25 square feet
2 plies 3/16 inch glass	18 square feet	40 square feet
2 plies 1/4 inch glass	24 square feet	40 square feet

Notes:

1. Replicated from AAMA "Glass Design for Sloped Glazings" .