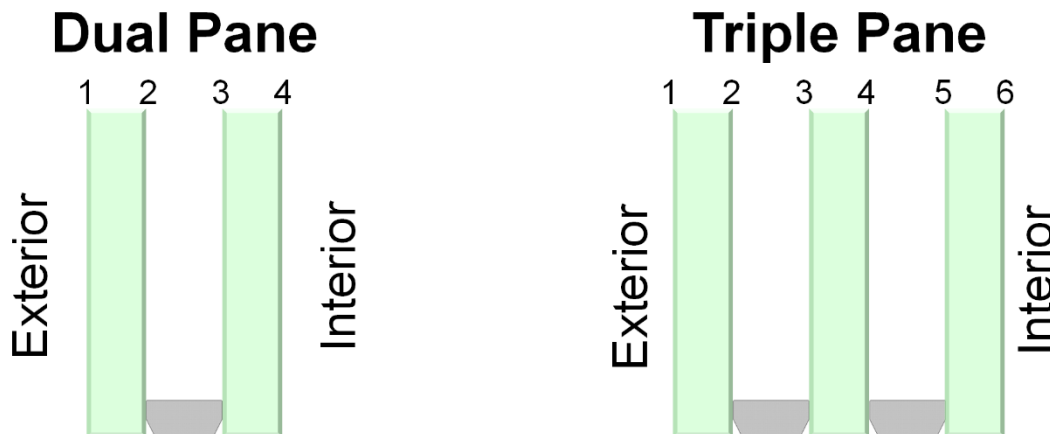


# Suggested IGU configurations with LoE™ Coatings

Cardinal LoE coatings are a critical component in insulating glass units (IGU) used in windows. These coatings are applied to the glass surface to reduce heat transfer and improve energy efficiency in buildings. The placement of these LoE coatings can affect the performance, appearance, thermal breakage risk, and could possibly affect the warranty.

Ultimately, the choice of which LoE coating(s) is used and its placement should align with the specific energy efficiency goals and climate conditions to optimize the IGU's performance for where it will be installed.

Glass surface numbers for a Dual and Triple Pane configuration:



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## Suggested IGU Configurations with Cardinal LoE products

(#) after the LoE designates the coating surface, see diagram on previous page

		Outboard	Inboard
		<b>Dual Pane IGU</b>	1 LoE coating Clear Glass
Clear	LoE-180 ESC (3)		
LoE <sup>2</sup> -272 (2)	Clear		
LoE <sup>2</sup> -270 (2)	Clear		
LoE <sup>3</sup> -366 (2)	Clear		
LoE <sup>2</sup> -240 (2)	Clear		
LoE <sup>3</sup> -340 (2)	Clear		
LoE-452+ (2)	Clear		
1 LoE coating Tinted Glass <sup>†</sup>	Tint*		LoE-180 (3)
	Tint*		LoE-180 ESC (3)
	Tint*		LoE <sup>2</sup> -272 (3)
	Tint*		LoE <sup>3</sup> -366 (3)
2 LoE coatings Clear Glass	LoE-180 (2)		LoE-i89 (4)
	LoE-180 ESC (2)		LoE-i89 (4)
	LoE <sup>2</sup> -272 (2)		LoE-i89 (4)
	LoE <sup>2</sup> -270 (2)		LoE-i89 (4)
	LoE <sup>3</sup> -366 (2)		LoE-i89 (4)
	LoE <sup>2</sup> -240 (2)		LoE-i89 (4)
	LoE <sup>3</sup> -340 (2)	LoE-i89 (4)	
LoE-452+ (2)	LoE-i89 (4)		

		Outboard	Middle	Inboard
		<b>Triple Pane IGU</b>	2 LoE coatings	LoE-180 (2)
LoE-180 ESC (2)	Clear			LoE-180 ESC (5)
LoE <sup>2</sup> -272 (2)	Clear			LoE-180 (5)
LoE <sup>2</sup> -270 (2)	Clear			LoE-180 (5)
LoE <sup>3</sup> -366 (2)	Clear			LoE-180 (5)
LoE <sup>2</sup> -240 (2)	Clear			LoE-180 (5)
LoE <sup>3</sup> -340 (2)	Clear			LoE-180 (5)
LoE-452+ (2)	Clear		LoE-180 (5)	
3 LoE coatings	LoE-180 (2)		LoE-180 (4)*	LoE-i89 (6)
	LoE-180 ESC (2)		LoE-180 ESC (4)*	LoE-i89 (6)
	LoE <sup>2</sup> -272 (2)		LoE-180 (4)	LoE-i89 (6)
	LoE <sup>2</sup> -270 (2)		LoE-180 (4)	LoE-i89 (6)
	LoE <sup>3</sup> -366 (2)		LoE-180 (4)	LoE-i89 (6)
	LoE <sup>2</sup> -240 (2)		LoE-180 (4)	LoE-i89 (6)
	LoE <sup>3</sup> -340 (2)	LoE-180 (4)	LoE-i89 (6)	
LoE-452+ (2)	LoE-180 (4)	LoE-i89 (6)		

\*Glass has a high probability of glass breakage, see Cardinal TSB IG07 – Thermal Breakage Prediction for more information

†Low visible transmission products inboard will yield reduced performance with high glass temperatures and thermal risk