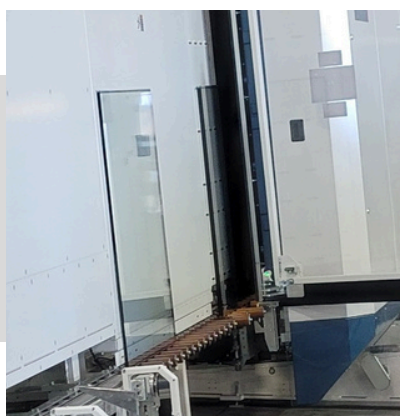


COMING SOON TO HARTUNG TUKWILA
THERMOPLASTIC SPACER LINE (TPS)
USED IN THE MOST DEMANDING FACADE APPLICATIONS WORLDWIDE!



NEW STATE-OF-THE-ART SPACER SYSTEM

REACTIVE THERMOPLASTIC SPACER SYSTEM THAT REPLACES
CONVENTIONAL SPACER BAR, DESICCANT, AND PRIMARY SEALANT FOR
IMPROVED ADHESION TO GLASS & EXCELLENT LONG-TERM THERMAL
PERFORMANCE



TPS OUTPERFORMS TRADITIONAL SPACERS

- ✓ CONSISTENT SIGHTLINES
- ✓ OUTSTANDING AESTHETICS
- ✓ INDUSTRY LEADING ARGON RETENTION
- ✓ ALL IGCC TESTED AND CERTIFIED
- ✓ HIGHER TEMPERATURE STABILITY
- ✓ UNMATCHED IGU PERFORMANCE
- ✓ RESISTANT TO HARSH WEATHER CONDITIONS
- ✓ CHEMICALLY BONDS TO GLASS

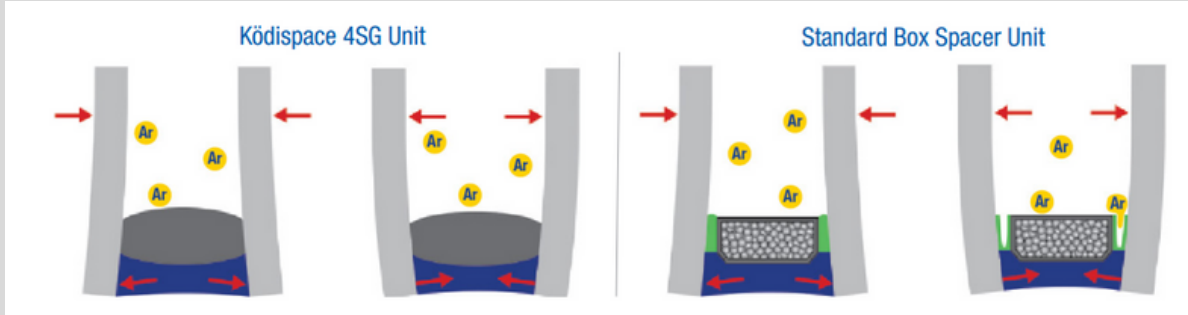
MIN 8 X 12" MAX 62 X 137.5" - WILSONVILLE
MIN 8 X 12" MAX 106 X 196" - TUKWILA
SAMPLES AVAILABLE UPON REQUEST

HARTUNG PACIFIC NORTHWEST
HARTUNG-GLASS.COM

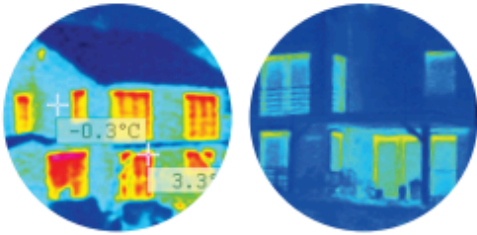
TPS

THERMOPLASTIC SPACER LINE

Used in the most demanding facade applications worldwide!



This warm edge system offers unlimited insulating glass unit (IGU) shapes and design, excellent thermal performance, maximum gas tightness and low MVTR. As a permanent flexible spacer its high elasticity and chemical bonding result in better mechanical performance during environmental changes.



Visible Thermal Insulation

Standard windows compared to insulating glass windows with TPS



The invisible spacer

TPS appears almost invisible within your glazing system because it reflects the frame color of your window, unlike conventional spacers. In addition, the warm edge system sits absolutely parallel, in triple insulating glass units, curved shapes or oversized units.

PERFORMANCE COMPARISON

	Ködispace 4SG	Foam Spacer	Hybrid Spacer	Stainless Steel
Gas Retention	● ● ●	●	● ●	● ●
Thermal Conductivity	● ● ●	● ● ●	● ● ●	●
Flexibility	● ● ●	● ●	●	●
Robotically Applied	● ● ●	● ● ●	-	-
Aesthetics	● ● ●	● ●	●	●
Durability	● ● ●	● ●	● ●	● ●
Chemically Bonded to Glass	● ● ●	-	-	-
Higher Temperature Stability	● ● ●	-	-	-
Automated Thickness Application	● ● ●	-	-	-

● ● ● Best ● ● Better ● Good