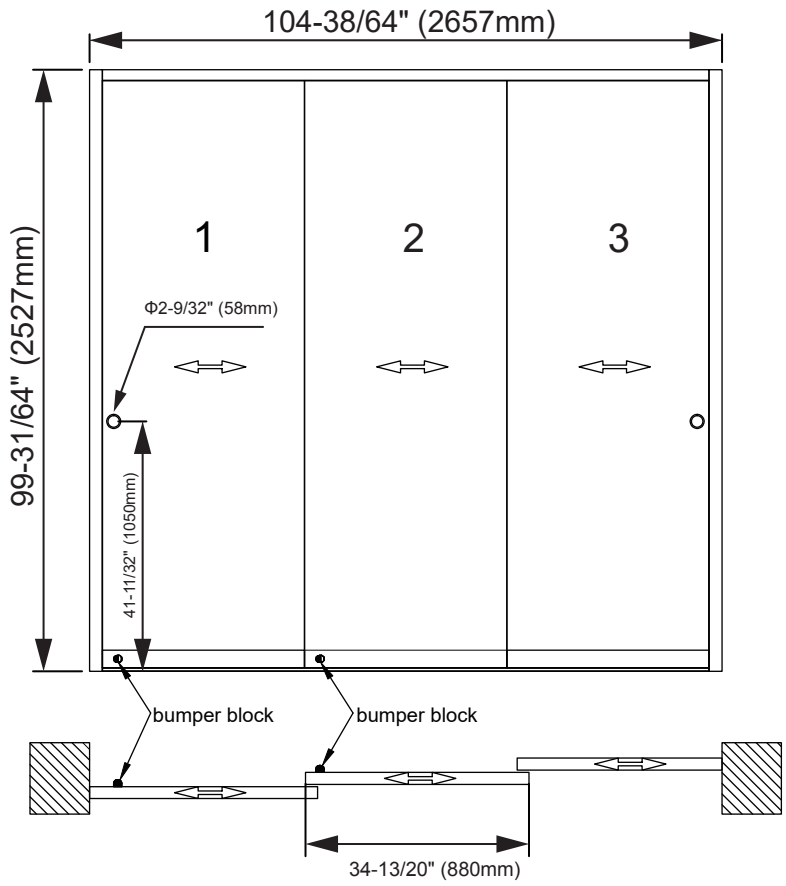
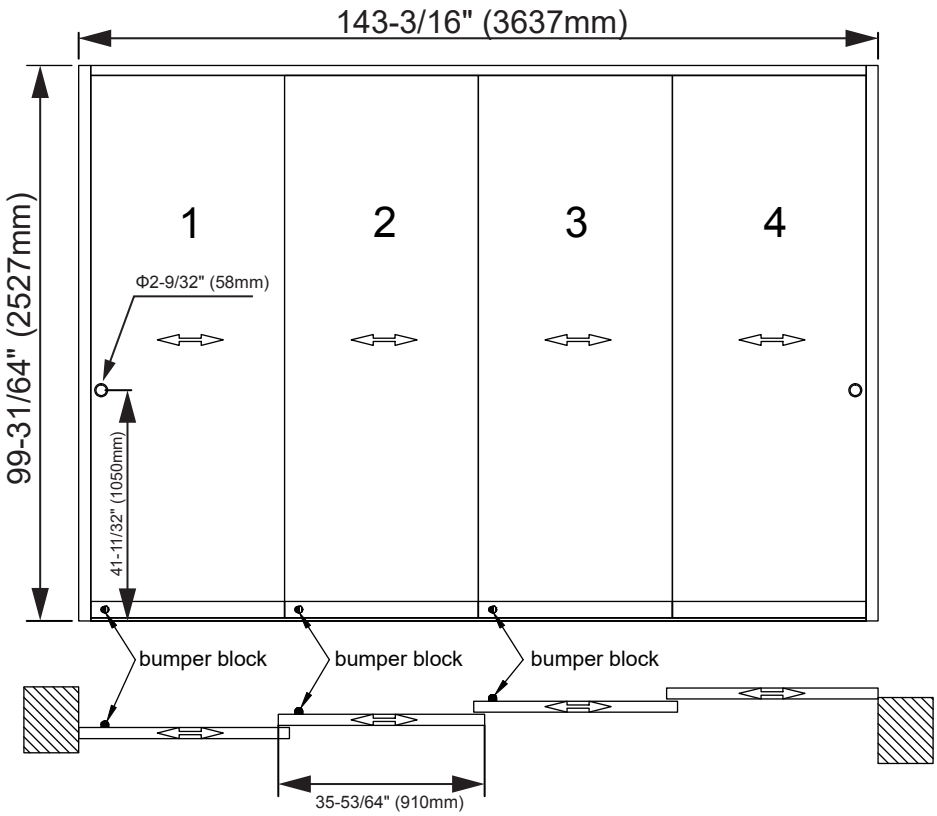
Relaxure



Outside

	Weight
For 10ft side	454.1lb
For 3m side	206kg



Outside

	Weight
For 13ft side	621.7lb
For 4m side	282kg

Frameless Sliding Glass Door Technical Specifications	
Glass Specifications	
Parameter	Description
Glass Type	Tempered Safety Glass (Conforms to ANSI Z97.1 and CPSC 16 CFR 1201)
Glass Thickness	12 mm (approx. 3/8")
Visible Light Transmission (VLT)	≥ 80%
Solar Heat Gain Coefficient (SHGC)	≤ 0.45
U-Value	≤ 0.25 Btu/(h·ft²·°F)
Low-E Coating	Anti-glare and thermal reflective coating
Surface Hardness	9H Anti-scratch coating applied
Self-Cleaning Layer	ASTM D7234-13 (2018) compliant
Frame & Hardware	
Track System	Bottom-rolling aluminum alloy track, anti-lift, anti-derail design
Frame Material	6063-T6 aluminum, anodized or powder-coated finish
Handles	304 stainless steel, flush-mounted
Door Load Capacity	Uniform load ≥ 50 PLF (approx. 730 N/m²); Point load ≥ 200 lb
Operation	Manual sliding
Handle Height	41.3" (1050 mm) from ground
Drainage & Maintenance	
Drainage	Dual-track drainage design for heavy rain
Maintenance Features	Hydrophobic, anti-scratch, anti-fouling coatings
Seasonal Use	All-season (snow, rain, wind, hurraine and earthquake compatible)
Structural Performance	
Wind Load Resistance	≥ 2.0 kPa (42 psf), designed for hurricane zones (ASTM E330)
Impact Resistance	Meets ASTM E1886 / E1996 (optional for high-risk zones)
Seismic Resistance	Complies with ASTM E2126 (dynamic load testing)
Thermal Resistance	Thermal expansion coefficient ≤ 9E-6 /• •(ASTM E1300)
Fire Rating	Class B1, fire-retardant tempered glass (EN 13501 / optional UL 972)
Spontaneous Breakage Rate	≤ 0.3%
Shatter Behavior	Fragments into small blunt particles (ASTM C1048 compliant)
Acoustic Rating	35 - 40 dB
Durability	
Salt Spray Resistance	ASTM B117
UV Aging Resistance	ASTM G154
Moisture Resistance	ASTM D2247-17