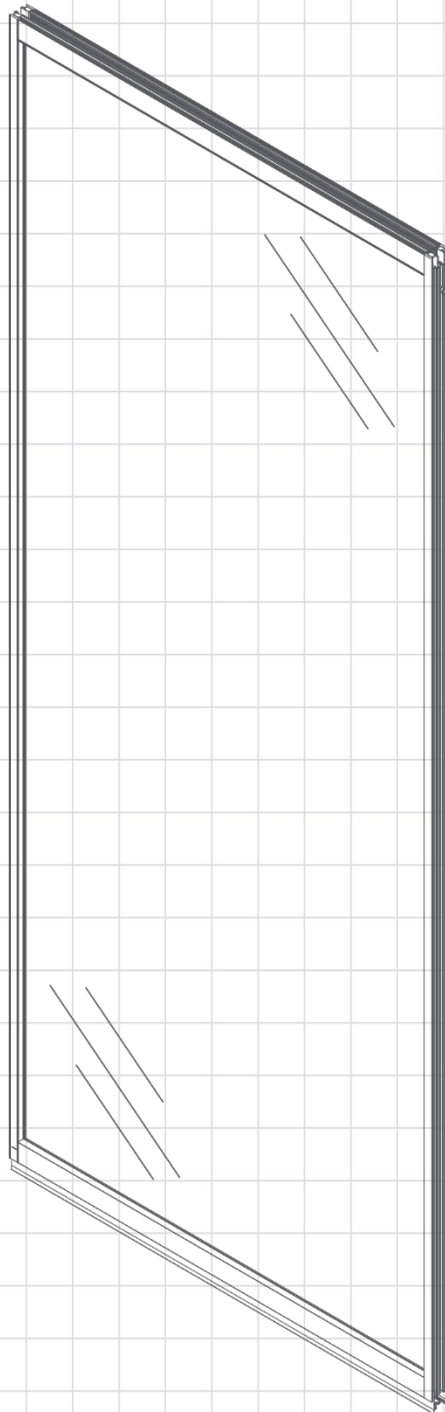


Inspire™ Wall

Tech Sheet





COMPONENTS + MATERIALS

ALUMINUM FRAME EXTRUSIONS

Architectural Grade and Structural Aluminum Alloys

Vertical and Horizontal Extrusions, Base Track

NOTE: Vertical for low-profile base is 1" (25mm) longer than standard Inspire vertical.

Aluminum Finish Options

Clear anodized (5 micron standard)

Powder coated

Any color choice

Custom as required (see [DIRTT.com](https://www.dirtt.com) for standard color options)

HORIZONTAL SECTIONS

Exposed Horizontal Muntin (aluminum extrusion) for Clerestory

GLASS

Clear Tempered or Laminated Glass ¼" (6mm), ⅜" (10mm) or ½" (12mm) thickness

NOTE: Stick-built walls can use ¼-inch (6mm), ⅜" (10mm) and ½" (12mm) glass in single-pane instances. However, ¼-inch (6mm) can only be used when all 4 edges of a single pane are secured by the aluminum extrusions for enhanced stability.

Curved corners glass options 24", 36" and 48" radii

Glass thickness ⅜" (10mm) only

INSULATION

1" (25mm) thick insulation, installed on-site in frame base cavity prior to base trim

BASE TRACK

Aluminum Base Track and optional seismic base track
2" and low-profile base tracks

Steel lever assembly with vertical adjustment
2" base track only

Carpet grippers

2" and low-profile base tracks

½" wide velcro loop with adhesive

Low-profile base track only

½" (12mm) x ⅛" (3mm) acrylic adhesive

Low-profile base track only

Leveling shims

Low-profile base only

BASE TRIM

Santoprene Base Trim (2" base track only)

LEVELERS

Aluminum and Steel Components (2" base track only)

NOTE: The low-profile base has no leveling capability; rather, it uses steel shims to level the base with the floor.

PVC COMPONENTS

Ceiling Trim

Rigid/Flex Co-extrusion
Flexible trim from top of wall to ceiling

Wall Trim

Rigid/Flex Co-extrusion
Flexible trim from base building wall to Inspire frame

PVC Color Options

Silver or Black

FRAME CONNECTION COMPONENTS

Hidden Cufflinks

Frame alignment and gap control

Discrete PVC

At frame connections between frames

Enzo Zippers

DIMENSIONS + DETAILS

ALUMINUM FRAME EXTRUSIONS

Frame

Standard Wall Thickness 2" (51mm)

Extrusion

Maximum (Max.) Length 10'-0" (3.05m) or 12'-0" (3.66m)

GLASS MODULES

Standard Wall Thickness

2" (51mm)

Minimum (Min.) Module

5 ½" (140mm)

Frame Width

Max. Module Frame Width

Variable

GLASS MODULES—MODULAR

Single Pane Glass

Min. Ceiling Height 18" (457mm)

Max. Ceiling Height 12'-0" (3.66m)

GLASS MODULES—STICK BUILT

Dual-Pane Butt Joint 10mm and 12mm Glass

Min. Frame Height 18" (457mm)

Max. Frame Height 11'-0" (3.35m)

Multi-Pane Butt Joint 10mm Glass

Min. Frame Height 18" (457mm)

Max. Frame Height 9'-0" (2.74m)



Multi-Pane Butt Joint 12mm Glass	
Min. Frame Height	18" (457mm)
Max. Frame Height	11'-0" (3.35m)
Multi-pane Butt Joint Curved Corners	
Min. Frame Height	18" (457mm)
Max. Frame Height	10'-0" (3.05m)

INSPIRE LOW-PROFILE BASE

Low-Profile Base Track	Cut to length in factory
Low-Profile Base	Cut to length in factory
Base Thickness	2" (52mm)
Base Height	
Min. height (on level floor)	¾" (19mm)
Max. height (using shims)	1 ⅝" (27mm)
Inspire Vertical Milled for Low-Profile Base	Height varies by ceiling height
Glass Height	+2 ¼" (57mm) greater than typical Inspire glass walls
Seismic	
Screw float	Min. ¼" (6mm) Max. ⅝" (16mm)
Nominal embedment (given cracked, sand-lightweight concrete with minimum compressive strength of 3,000 psi)	1 ⅝" (41mm)

NOTE: The maximum specifications for frame and glass design depend on various factors including the span of the wall, layout configurations, glass thickness and jurisdictional requirements. For detailed specifications, consult the [Stick-built DIRTT Inspire Glass Wall Structural Design Calc Report #1801005B](#)

Above Floor Finish (AFF) Heights	
Designed AFF to top of base	¾" (18mm)
Minimum AFF to top of base	¾" (18mm)
Maximum AFF to top of base	1 ⅝" (41mm)
Shims	
Max. shimming distance	⅜" (10mm)
Shim thicknesses	
12-gauge shim	⅛" (3mm)
16-gauge shim	⅙" (1mm)

Corner Configurations	
90° 2-way miter	
90° 3-way T-miter (2 panes or 3 panes of glass)	
Non-90° 2-way	
Non-90° 3-way (2 panes or 3 panes of glass)	

LEVELER ADJUSTMENT

Standard Inspire Base

Vertical height adjustability	
Min. AFF to bottom of frame	
Leveler (Non-seismic and Seismic)	½" (13mm)
Leveler with Extended Drive Collar	1 ¼" (32mm)
Max. AFF to bottom of frame	
Leveler (Non-seismic and Seismic)	1 ⅝" (41mm)
Leveler with Extended Drive Collar	2 ⅜" (60mm)
Leveler QTY required under Curved Glass Corner	QTY 4 per curved corner

Inspire Low-Profile Base

NOTE: The Inspire Low-Profile Base has no leveling capability; instead, it uses shims to keep the glass wall horizontal over low spots in the floor.

Max. downward adjustability ⅜" (10mm)

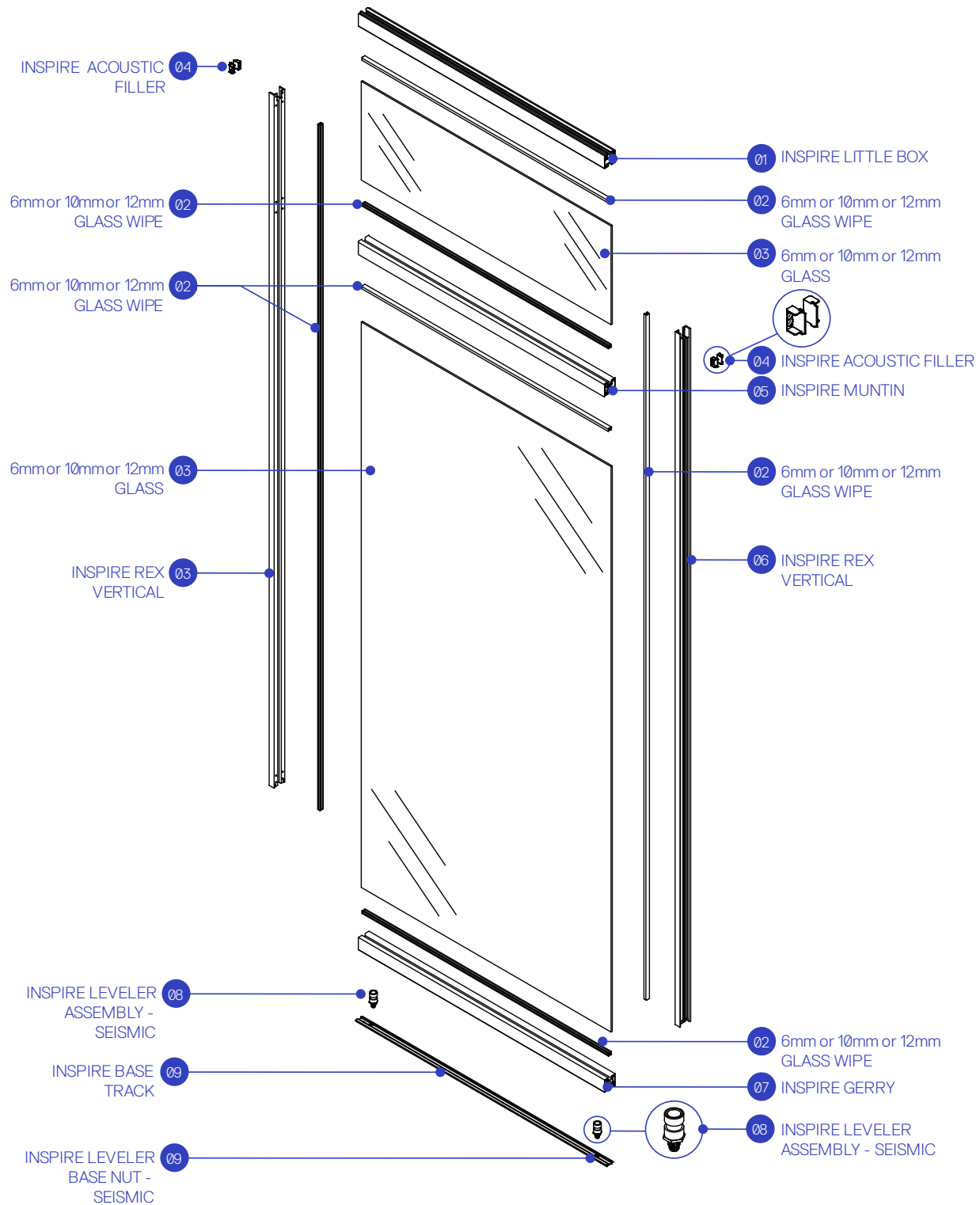
OTHER WALL CONNECTION OPTIONS

Glass 4" frames
Solid 4" frames
Inspire transition post
Inspire curved corners
Telescoping wall start (attached to base building)
Various base building connections



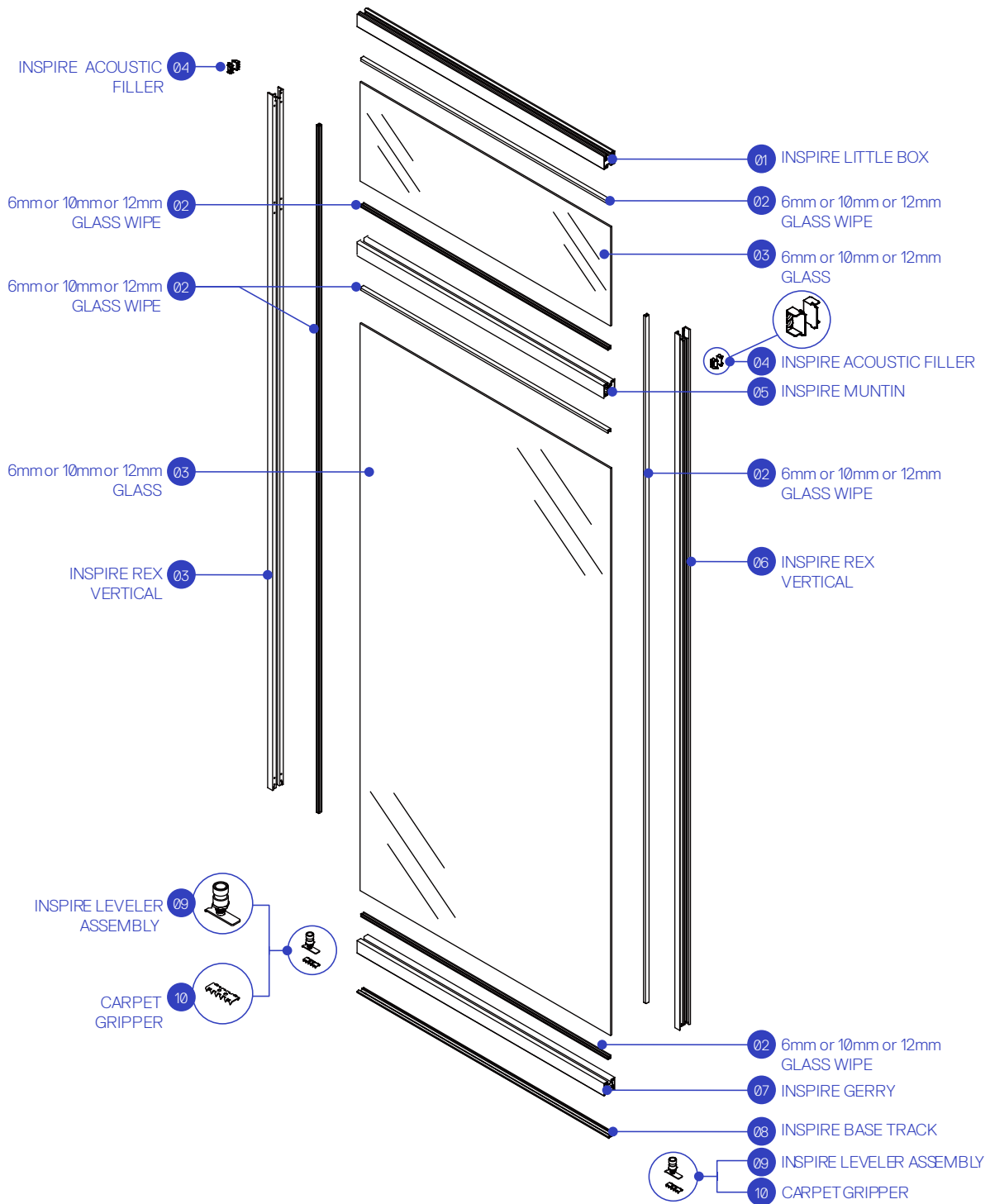
MODULAR INSPIRE GLASS WALL FRAME ASSEMBLY

SINGLE-PANE GLASS WITH CLERESTORY





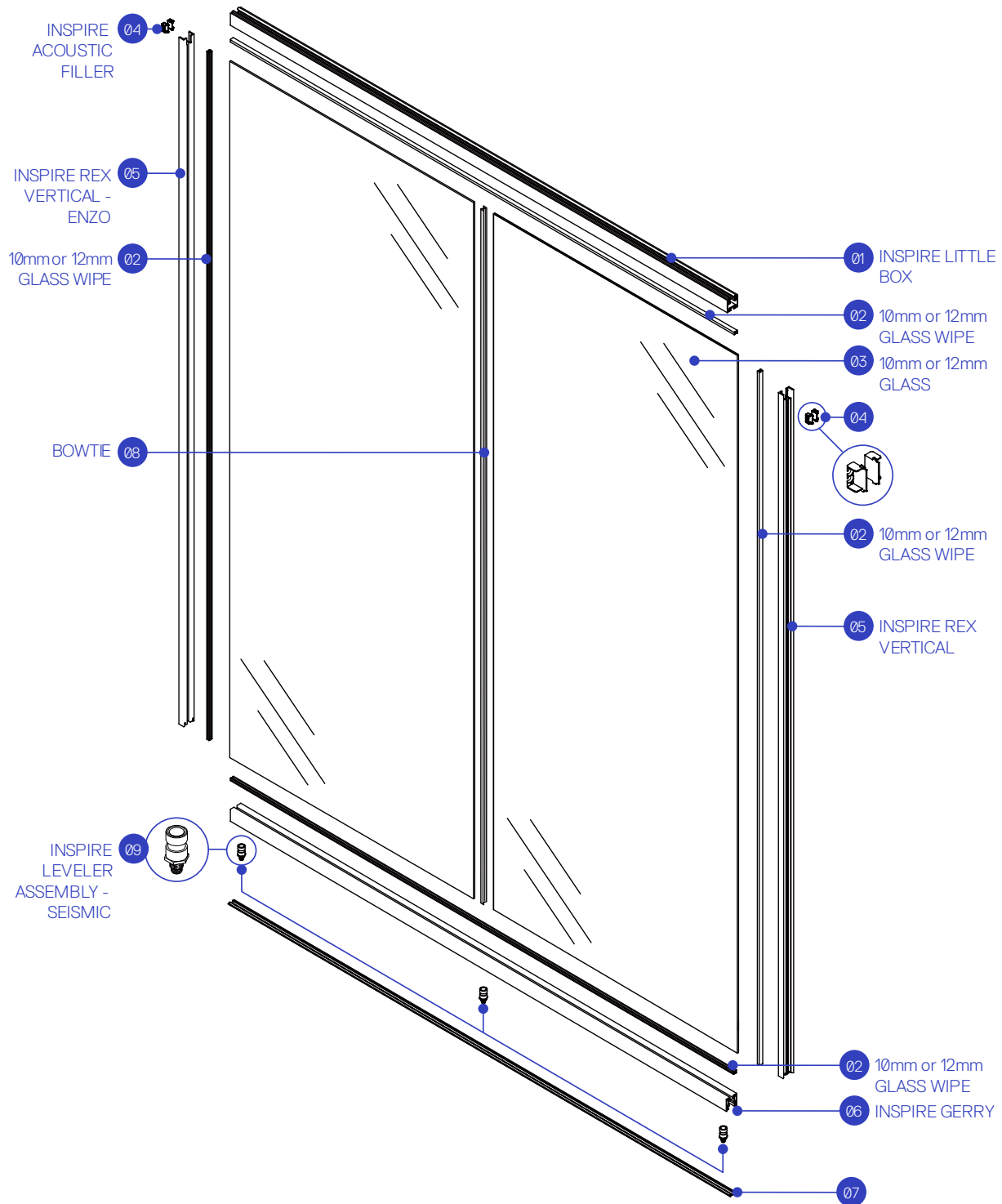
MODULAR INSPIRE GLASS WALL FRAME ASSEMBLY—SEISMIC SINGLE-PANE GLASS WITH CLERESTORY





STICK-BUILT INSPIRE GLASS WALL ASSEMBLY—SEISMIC

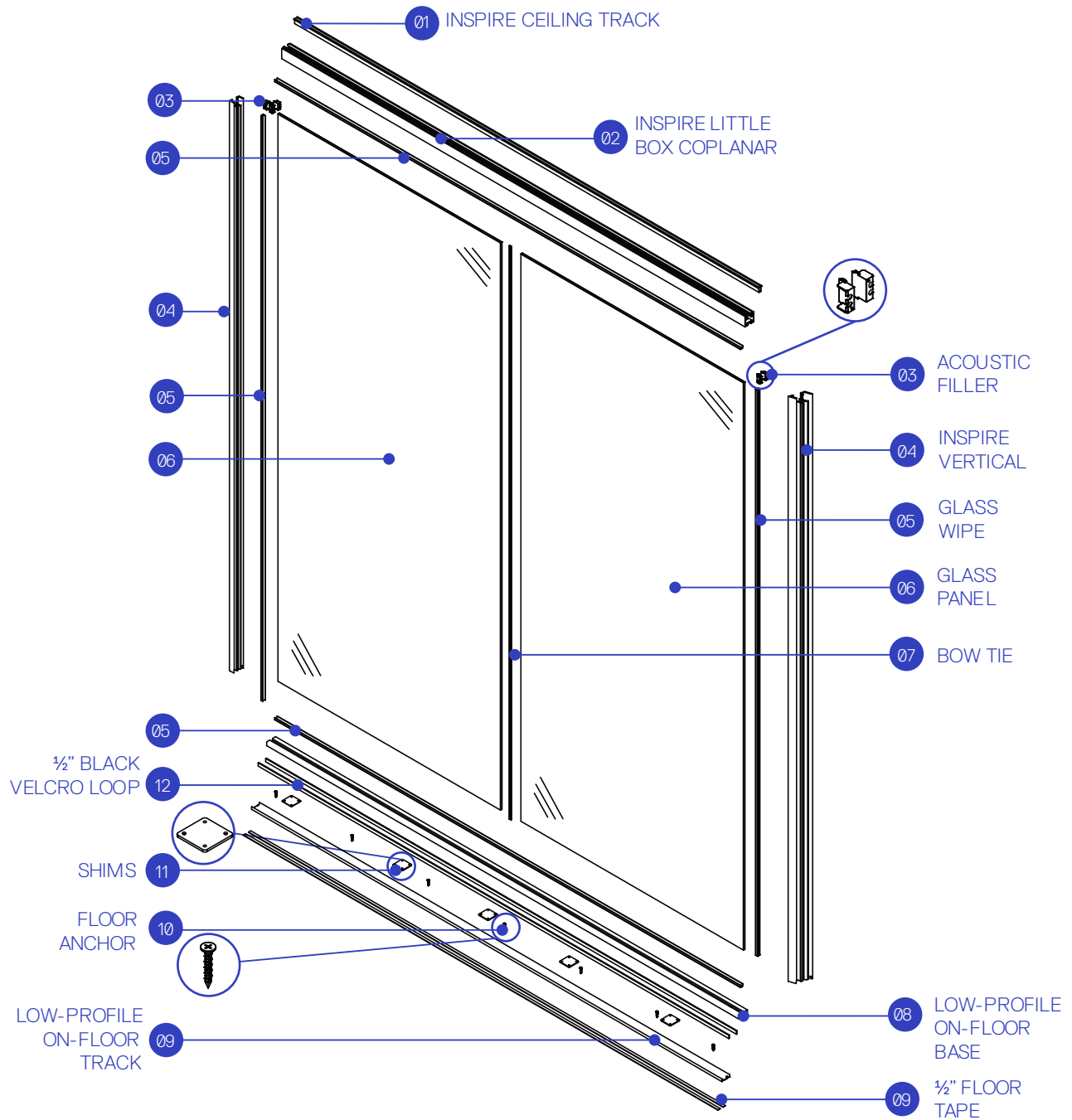
MULTI-PANE BUTT JOINT GLASS





STICK-BUILT INSPIRE GLASS WALL ASSEMBLY—INSPIRE LOW-PROFILE BASE

MULTI-PANE BUTT JOINT GLASS

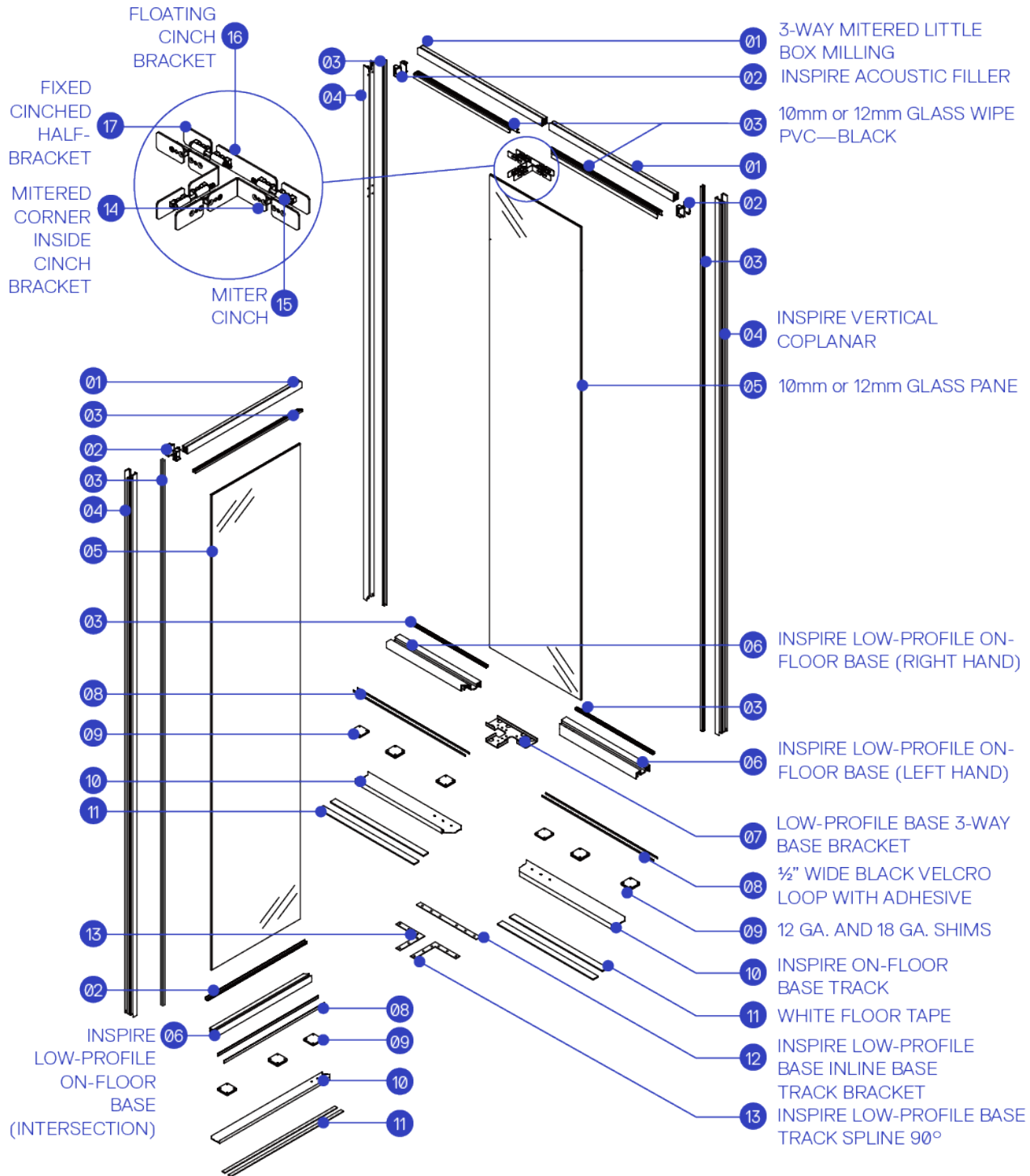




STICK-BUILT INSPIRE GLASS WALL ASSEMBLY—INSPIRE LOW-PROFILE BASE

BASE CONNECTION OPTIONS

3-WAY INSPIRE LOW-PROFILE BASE CONNECTION

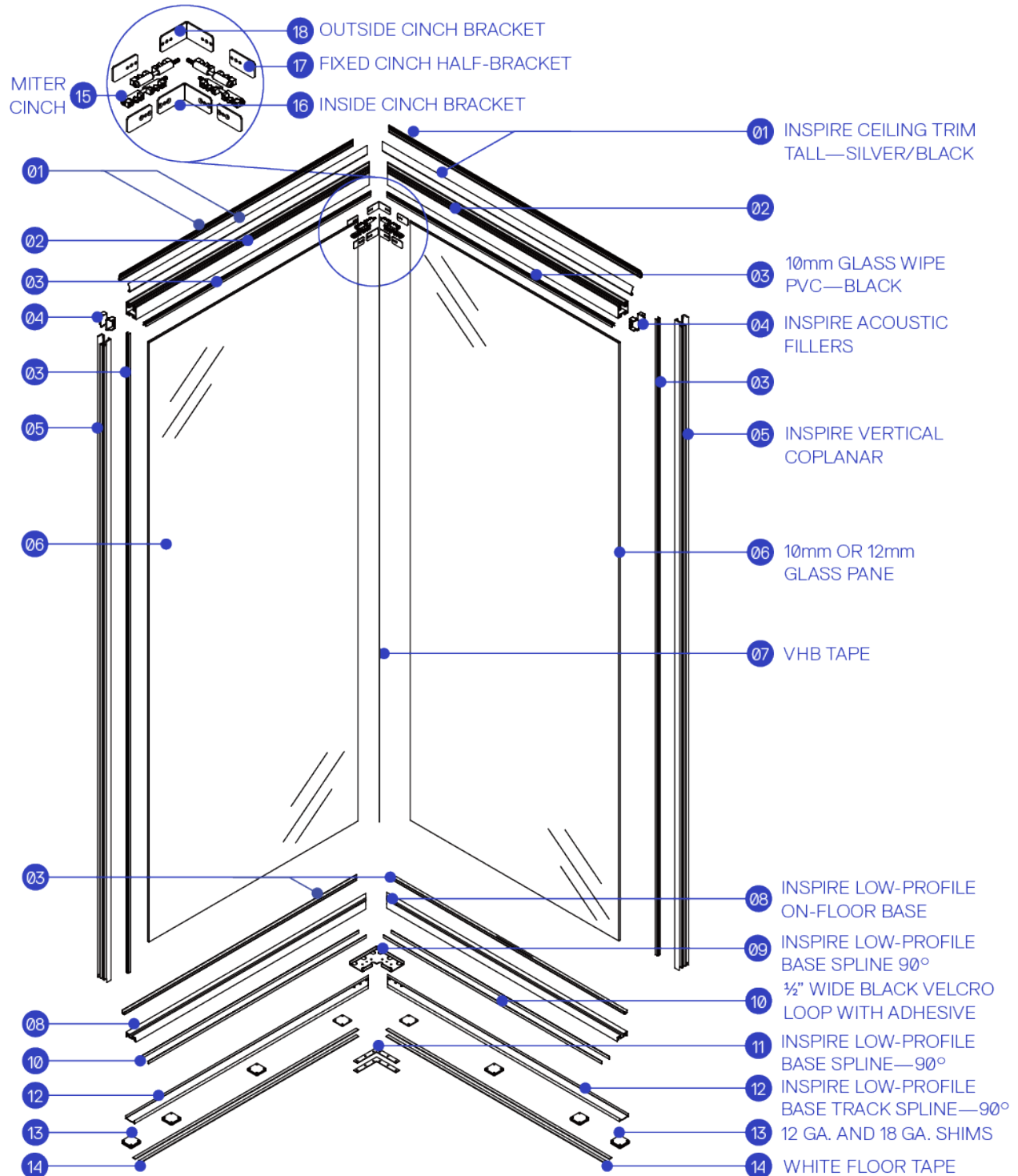




STICK-BUILT INSPIRE GLASS WALL ASSEMBLY—INSPIRE LOW-PROFILE BASE

BASE CONNECTION OPTIONS

90° INSPIRE LOW-PROFILE BASE CONNECTION

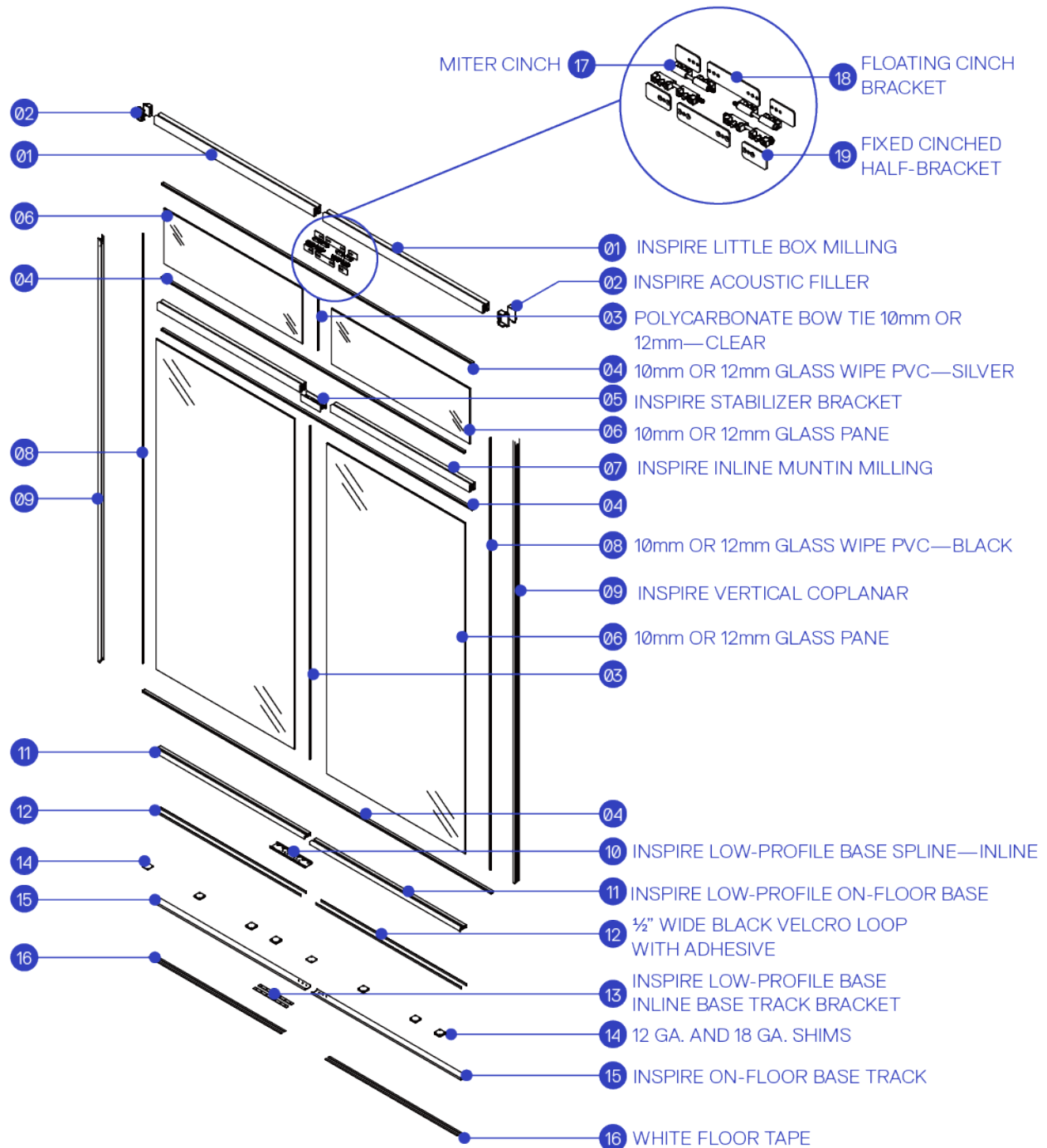




STICK-BUILT INSPIRE GLASS WALL ASSEMBLY—INSPIRE LOW-PROFILE BASE

BASE CONNECTION OPTIONS

INLINE INSPIRE LOW-PROFILE BASE CONNECTION

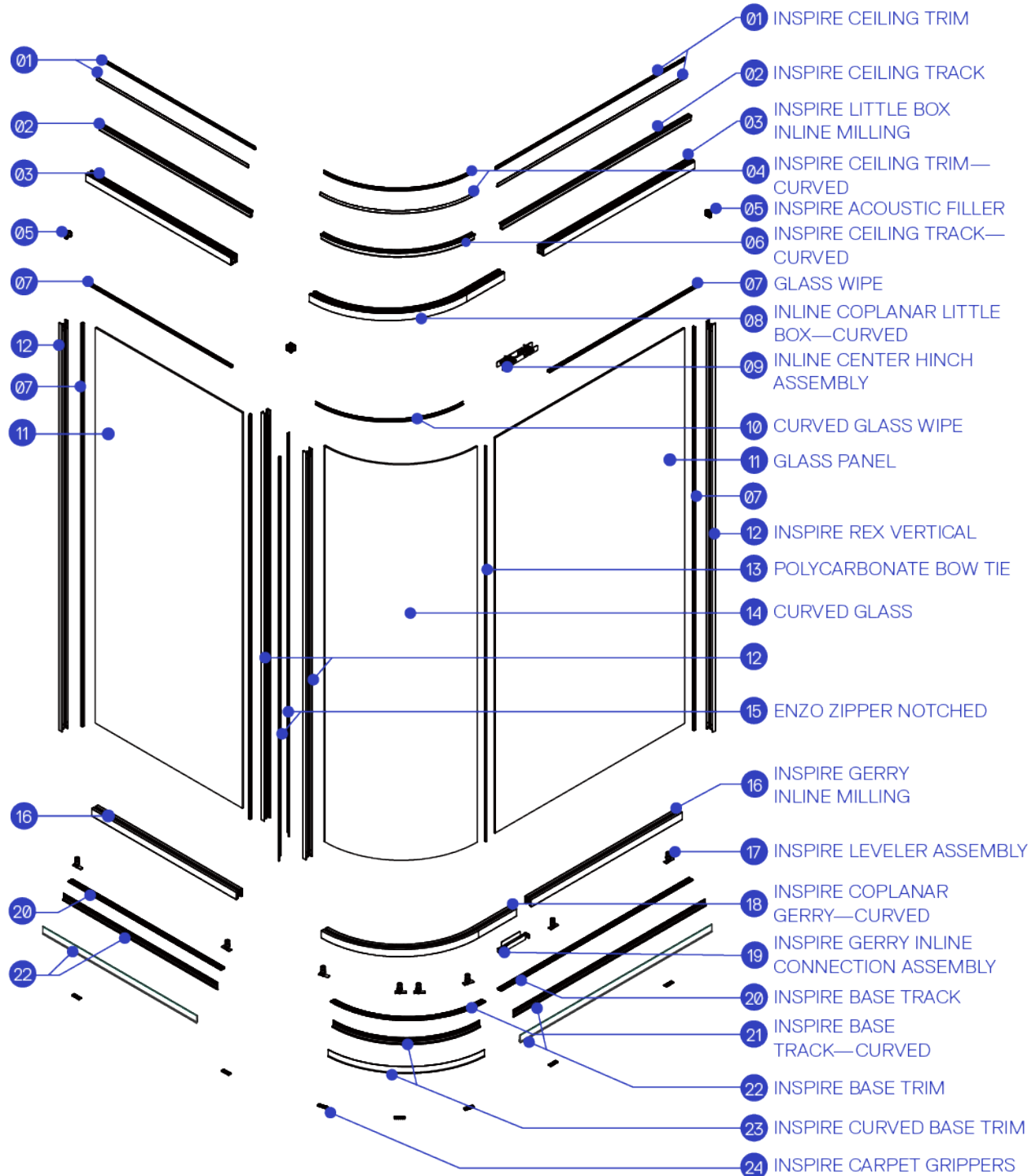




STICK-BUILT INSPIRE CURVED CORNER ASSEMBLY

MULTI-PANE BUTT JOINT GLASS

INSPIRE CURVED CORNERS



NOTE: This image shows the 24" radius version of the Inspire Curved Corner. This solution also offers 36" and 48" radii.