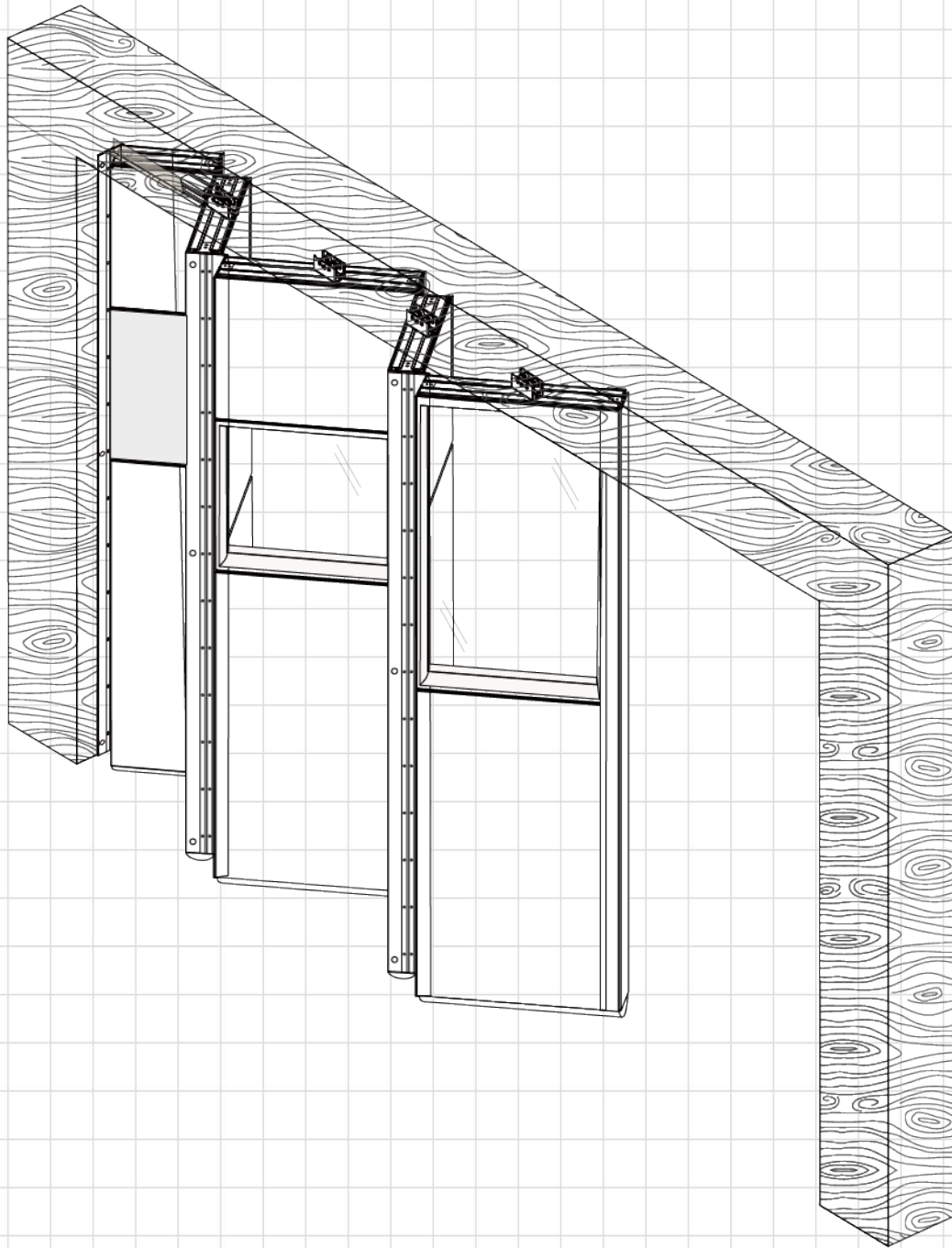


Leaf Folding Wall

Tech Sheet





COMPONENTS + MATERIALS

ALUMINUM FRAME EXTRUSIONS

Architectural Grade and Structural Aluminum Alloys

Vertical and horizontal extrusions

Standard Frame Profiles

Rectilinear profile

Curvilinear profile

Blade profile

Frame Finish Options

Clear anodized (5 micron standard)

Powder coated

Veneer wrapped (Curvilinear and Rectilinear profiles only)

Custom as required

NOTE: Hinges do not have a veneer-wrapped finish.

HORIZONTAL SECTIONS

Partially exposed Horizontal Support Member for dividing tiles and hanging components.

Heights are user defined.

Hidden Horizontal Member for additional support of face mounted tiles.

Heights are user defined as required.

Exposed Horizontal Members in Blade and Curvilinear profiles for dividing and supporting Center Mount Glass or Panels.

Center Mount Glass and Panels are received in PVC Glass Wipes fitted in center groove of horizontal sections.

Horizontal Member heights are user defined.

INSULATION

1" (25mm) thick insulation, factory-installed in frame

Insulation for base to be field installed in base cavity before base trim.

BASE TRACK

Aluminum base track

Steel leveler assembly with vertical adjustment

BASE TRIM

Santoprene base trim

Polyvinyl chloride (PVC)

BASE SWEEP

PVC

FACE MOUNT PANEL OPTIONS

ChromacoatPlus

Wood Veneer on medium density fiberboard (MDF)

Magnetic Markerboard

Markerboard

Fabric Panels

Frameless back-painted glass

DIRTT-approved custom finishes

NOTE: Pen trays and other accessories that protrude off the wall **cannot** be used with Leaf Folding Walls.

CENTER MOUNT PANEL OPTIONS

Glass in ¼" (6mm) and ⅜" (10mm) thickness

Clear tempered glass

Architectural glass

Laminated glass

Center painted laminated glass

¼" (6mm) = ⅛" (3mm) glass + paint + ⅛" (3mm) glass

⅜" (10mm) = ⅜" (5mm) glass + paint + ⅜" (5mm) glass

DIRTT-approved custom finishes (customer's own material (COM))

NOTE: Selected finish options must meet performance requirements for intended application including Flame Spread/Core Materials.

GLASS COLORS AND PATTERNS

See the [Finishes Collection](#) for standard glass color and pattern options.

PVC COMPONENTS

Base sweep	Rigid/flex co-extrusion
Track extrusion wipe	Rigid/flex co-extrusion
PVC color options	Black, silver or custom (as required)
Glass retainer	Rigid/flex co-extrusion

HARDWARE

Hinges	Aluminum
Roller assembly	
Pivot saddle	Steel
Bearing assembly	Steel
Low-friction rollers	Nylon
Flush Bolt assembly	Steel and aluminum



Bottom cap	Steel
Spline	Steel
Vertical	
Width	1 13/16" (46mm)
Thickness	1/8" (3mm)
Horizontal	
Width	2 1/8" (53mm)
Thickness	1/8" (3mm)

DIMENSIONS + DETAILS

FRAME

Standard wall thickness	4" (102mm) with panels
Minimum module width	6" (152mm)
Maximum module width	48" (1.22m)
Standard ceiling height	Up to 120" (3.05m)
Wall span	
Single Leaf Wall	20'-0" (6.10m) maximum span (length)
Double Leaf Wall	30'-0" (9.14m) maximum span (length)

NOTE: Double Leaf Walls must be symmetrical.

Panel module width	48" (1.22m) maximum
Leaf Wall panels	Each module must be of equal height and width, except for the required half-width module at the starting point of the Leaf Wall.

NOTE: Frame assemblies exceeding 48" (1.22m) in width or 120" (3.05m) in height, or both, must be reviewed and validated by the DIRTT Engineering team (DENG) to confirm the Leaf Wall assembly can handle the oversized frames. Contact the DENG team at dengreview@dirtt.com.

STRUCTURE DIMENSIONS

Structure dimensions depend on the Leaf Modules and design.

FRAME CONNECTIONS

Rare earth magnets	Steel
Hinges	Aluminum

TRIM COMPONENTS

Ceiling trim	Flexible trim attached to the underside of the track extrusion.
Base sweep	Flexible trim attached to the bottom of the Leaf Modules.

TIMBER OR STEEL BEAM TO BASE BUILDING

Timber	Either two columns with a horizontal beam secured on top or suspended from plenum space above.
Steel beam	Supplied "by others" and secured to the plenum ceiling above with steel supports.

OTHER OPTIONS

Combination Wall: Combined Face Tile Wall with Glass Wall

DIRTT-approved custom solutions (bespoke)

No added formaldehyde MDF

Fire-retardant MDF

STRUCTURAL SUPPORTS

Structural options for Leaf Walls include DIRTT timber, structural steel or a combination of the two.

Always consider the base building site conditions when determining structural design.

Engaging a building or structural engineer is an important first step.

The engineer will require Leaf loading tables to determine the weight and loads caused by the modules.

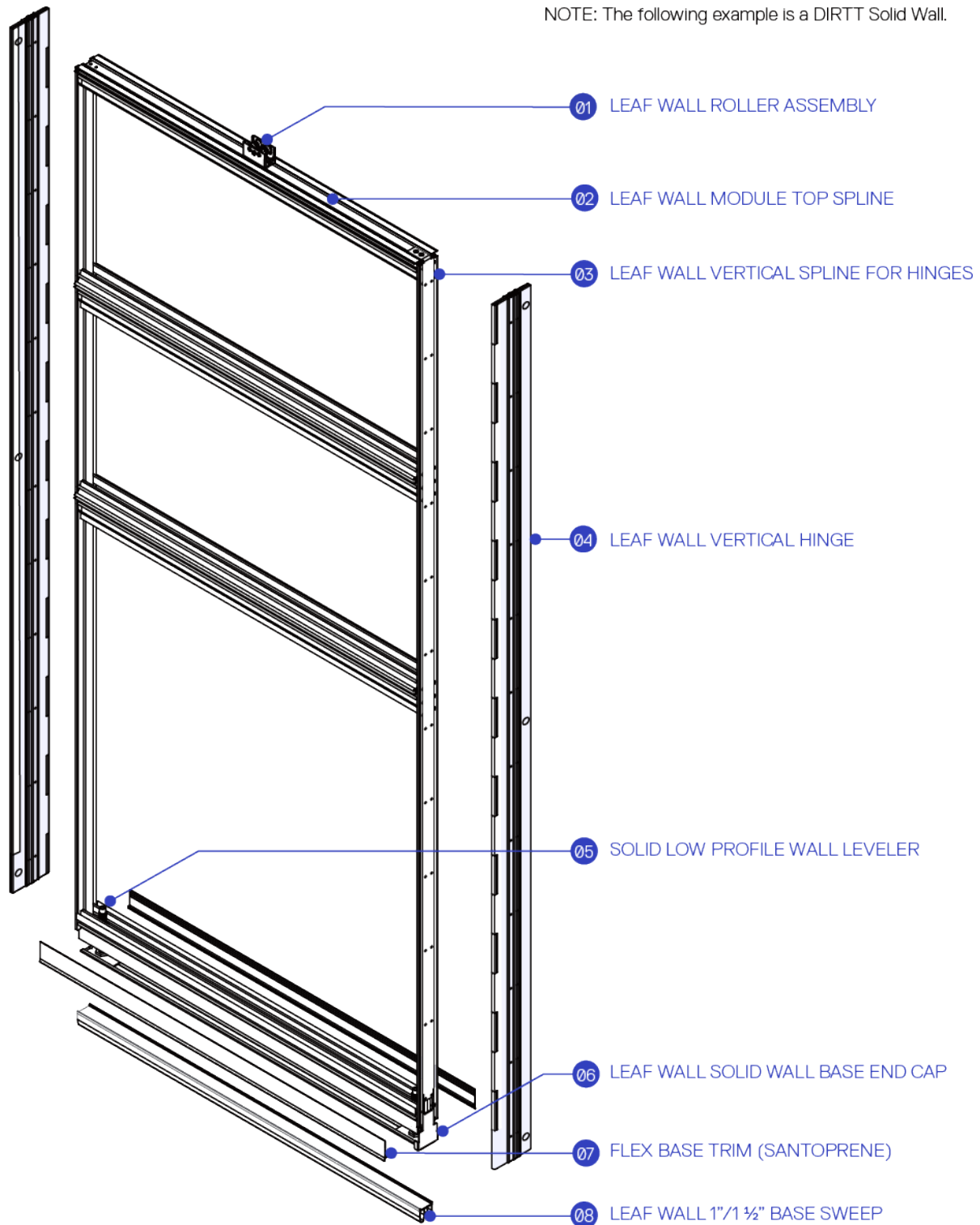
For the current Leaf loading tables, see "Appendix: Leaf Folding Walls—Load Tables" in the [Leaf Folding Wall Design and Order Guide](#).



LEAF COMPONENTS

EXPLODED VIEW—LEAF MODULE

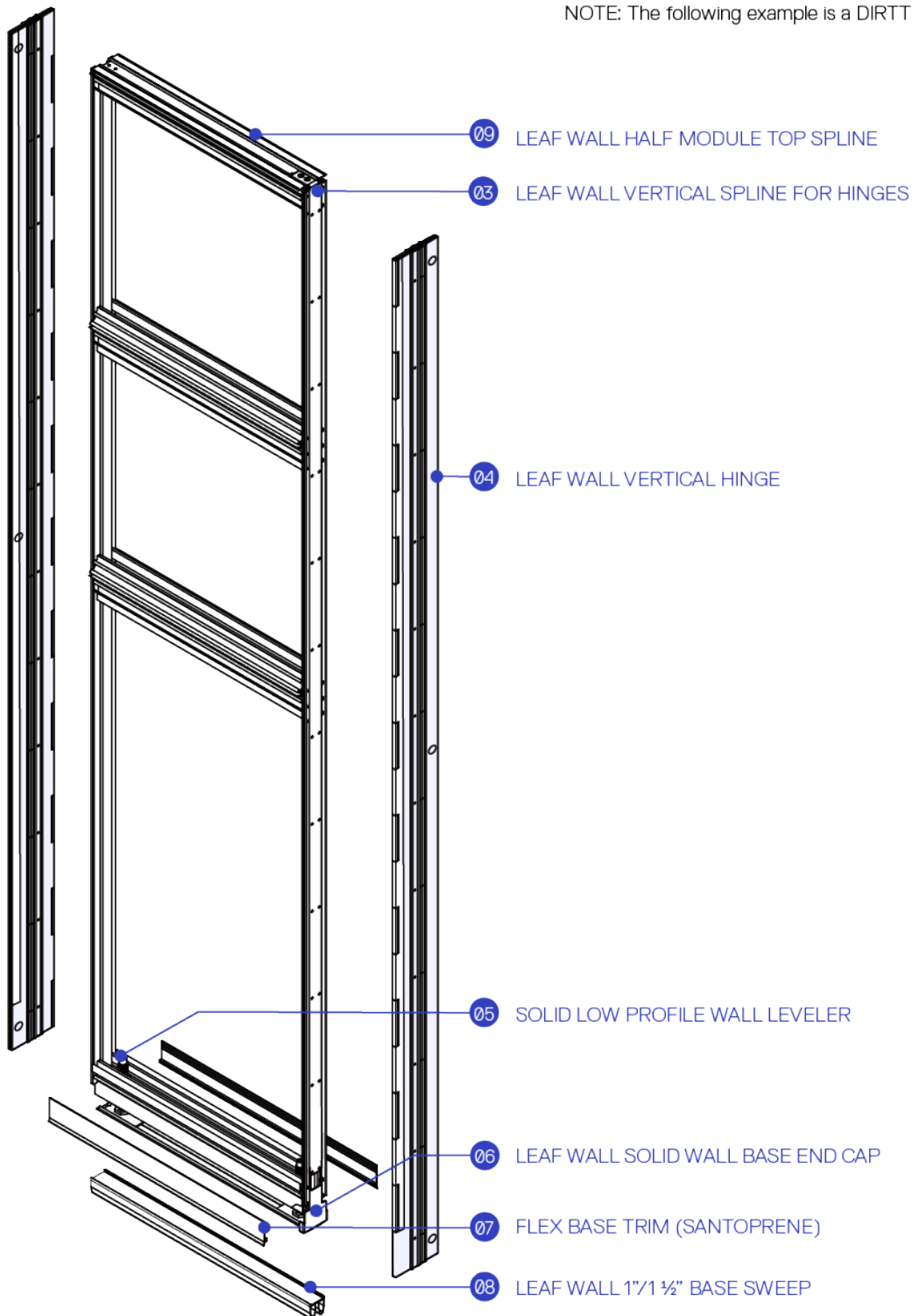
NOTE: The following example is a DIRTT Solid Wall.





EXPLODED VIEW—HALF-MODULE

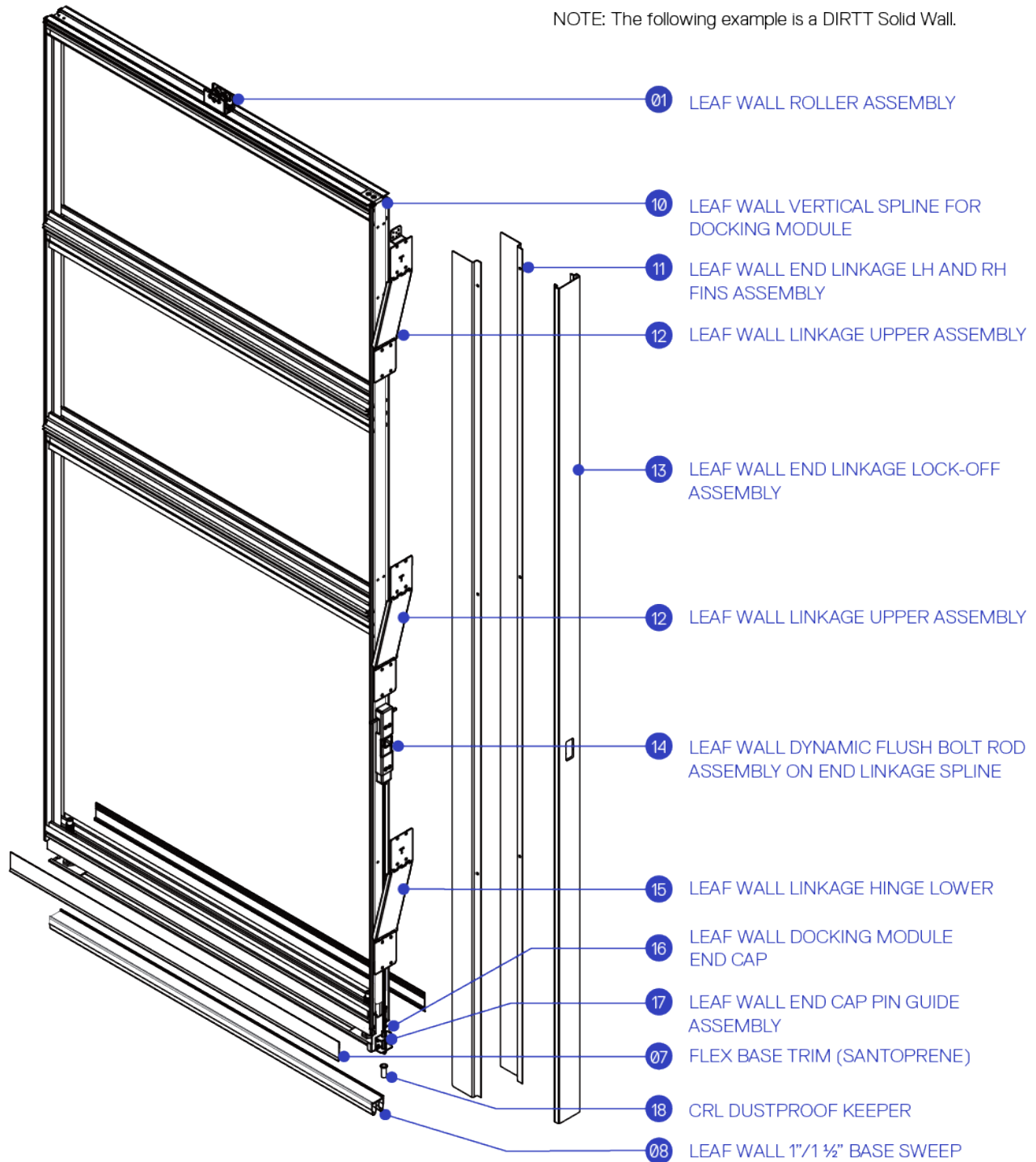
NOTE: The following example is a DIRTT Solid Wall.





EXPLODED VIEW—DOCKING MODULE

NOTE: The following example is a DIRTT Solid Wall.





LEAF INSTALLED

ISOMETRIC VIEW—LEAF ASSEMBLED IN TIMBER BEAM

