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**CANNON BALL HNP**  
Manufactured by:

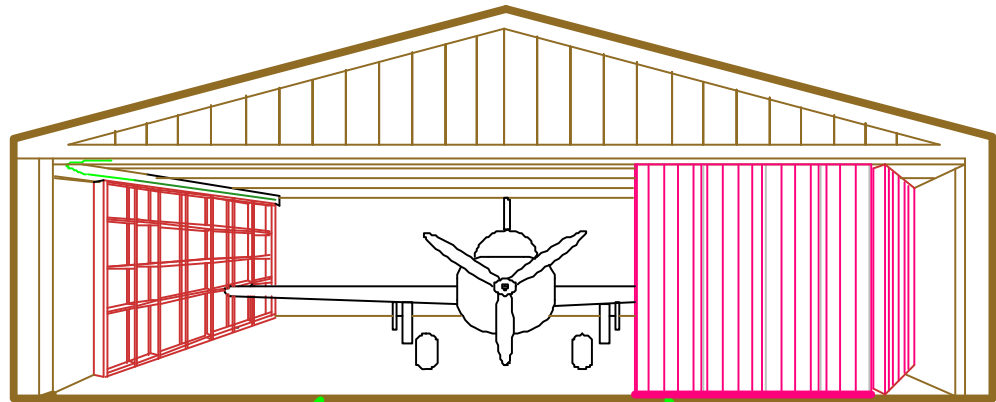
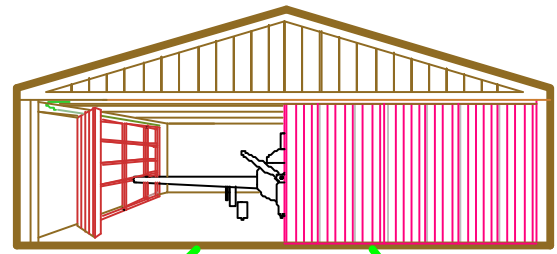
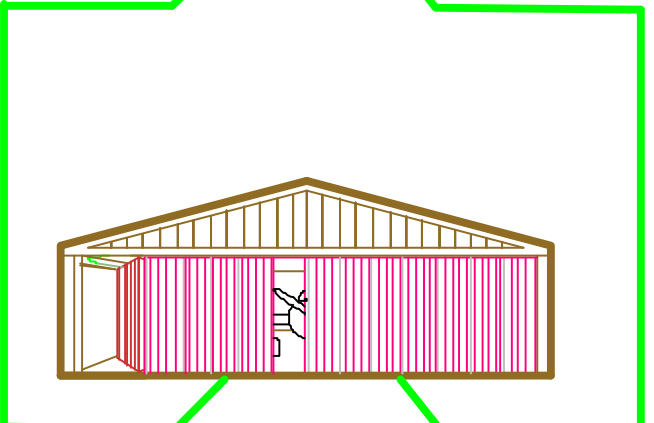
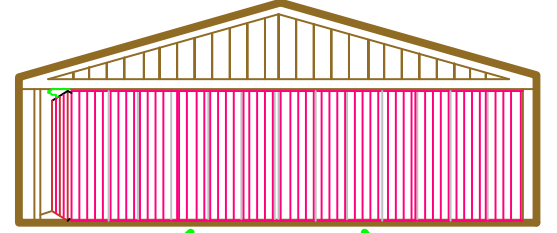
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## **Cool-Air CSA-2.5-IS Multiple Panel Inside Radius Corner Sliding Door System**

**Flexible Design works  
New and Retrofit  
Construction,  
Metal or Wood Building,  
Reduces Overall Cost.**

**Provides a Safe Manually  
Operated Door That Works  
in Virtually Any Weather!**



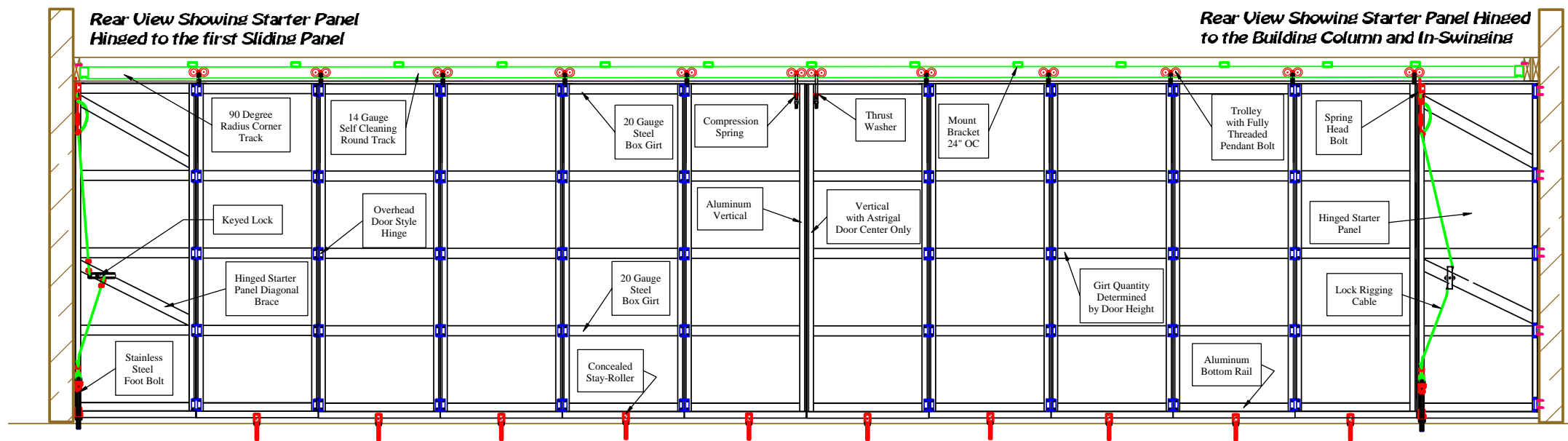
# Cool-Air, Inc. CSA-2.5+IS Inside Sliding Door System

Lets you slide the door inside safely away from wind and weather

This Very Special Design finally makes the Inside Slider concept work! Just like a garage door going sideways - Narrow panels only 40" wide, just the right width for a single sheet of steel covering, are perfectly sized to be hinged to each other and slide around the corner with out binding in the overhead track. This concept is also somewhat like a pocket door because it leaves the side wall space usable for storage. Depending on the installation preference, the door stores within four inches of the wall. Shelves or work benches can be placed beside the stored door. One or two panels either larger or smaller than the standard 40" panel are supplied to make the door fit any opening.

The door frame combines aluminum extrusions which have complex shapes with more economical roll formed steel box tube girts to gain maximum strength with minimum weight. All members are maintenance free with the exposed aluminum pre-painted giving a long life finish. The component design makes for quick site assembly and low cost shipping. Reducing your overall cost considerably.

The narrow panel design provides simple - straight forward operation: Open the keyed lock and swing open the hinged starter panel for access to the building. The Starter Panel can optionally be hinged to the first sliding panel or directly on the building. Then Slide the remaining panels around the corner to safely store inside down the side wall. The security of the concealed stay-rollers withstands wind pressure whether the door is closed or moving. One person can safely operate this door system in almost any condition.



**Door Support:** In Post Frame Construction the top track is attached on the rear side of an extension below the end-wall truss. In Metal Construction track attachment is to the rear of the header of the framed opening. All the door weight is supported by this track. A 90 degree radius corner track routes the door around the corner and down the side wall for open storage. New doors can even be installed on old buildings with a minimum amount of retrofit work. New buildings should not require extensive structure design needed for powered doors. Wind load is transferred from the door to the overhead track and to the floor through the concealed stay rollers. Top and bottom seals are provided and vertical joints are virtually self-sealing. Center Astragal supplied.

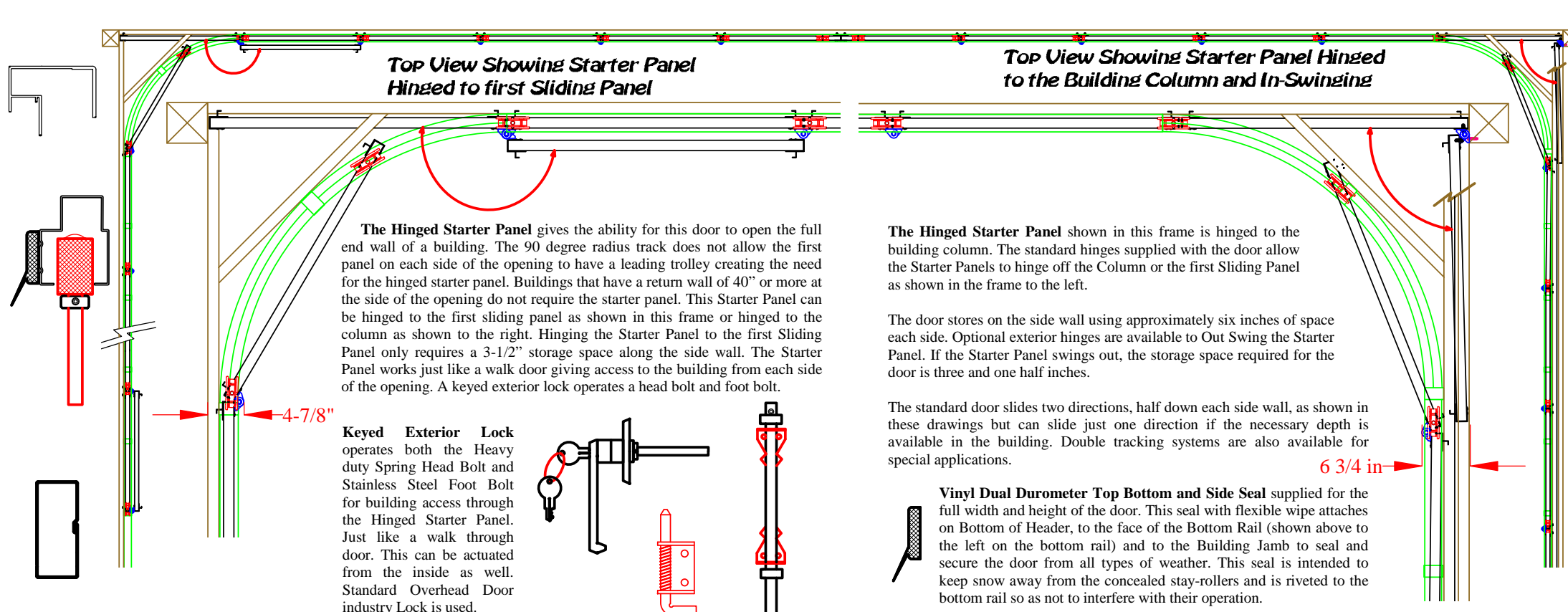
## Typical 40' X 12 Door Frame Shown

## Narrow Panel Width Design Allows Easy Door Movement

**CSA-2.5 Complex Structural Aluminum** vertical rail components and bottom rail extruded from 6063-T3 material. Pre-painted white and will not rust or require maintenance. Unique shapes fit together easily, have a self trimming "J" trim feature and provides the ability to assemble easily in the field using TEK screws. CSA-4.5 Components offered for high loads.

**Concealed Stay Rollers** are the key to the safe operation of this door. This heavy nylon roller on a steel pin is inserted into a hole drilled in the floor. There is one for each panel except the Starter Panel and they are easily removed after the door is open if need be. The bottom rail automatically fits over the roller as the door opens or closes and the door is secure from the wind. Foot Bolts are optionally available or a combination of the two.

**Roll-Formed 20 Gauge Galvanized Steel box tube girt** snugly fits into the aluminum vertical to create the door structure and provide the solid base needed for the exterior sheeting attachment. Also used for the diagonal Brace in the hinged starter panel for truss like strength and allows virtually any sheeting options.



The Hinged Starter Panel gives the ability for this door to open the full end wall of a building. The 90 degree radius track does not allow the first panel on each side of the opening to have a leading trolley creating the need for the hinged starter panel. Buildings that have a return wall of 40" or more at the side of the opening do not require the starter panel. This Starter Panel can be hinged to the first sliding panel as shown in this frame or hinged to the column as shown to the right. Hinging the Starter Panel to the first Sliding Panel only requires a 3-1/2" storage space along the side wall. The Starter Panel works just like a walk door giving access to the building from each side of the opening. A keyed exterior lock operates a head bolt and foot bolt.

**Keyed Exterior Lock** operates both the Heavy Spring Head Bolt and Stainless Steel Foot Bolt for building access through the Hinged Starter Panel. Just like a walk through door. This can be actuated from the inside as well. Standard Overhead Door industry Lock is used.

The Hinged Starter Panel shown in this frame is hinged to the building column. The standard hinges supplied with the door allow the Starter Panels to hinge off the Column or the first Sliding Panel as shown in the frame to the left.

The door stores on the side wall using approximately six inches of space each side. Optional exterior hinges are available to Out Swing the Starter Panel. If the Starter Panel swings out, the storage space required for the door is three and one half inches.

The standard door slides two directions, half down each side wall, as shown in these drawings but can slide just one direction if the necessary depth is available in the building. Double tracking systems are also available for special applications.

**Vinyl Dual Durometer Top Bottom and Side Seal** supplied for the full width and height of the door. This seal with flexible wipe attaches on Bottom of Header, to the face of the Bottom Rail (shown above to the left on the bottom rail) and to the Building Jamb to seal and secure the door from all types of weather. This seal is intended to keep snow away from the concealed stay-rollers and is riveted to the bottom rail so as not to interfere with their operation.

**Door Support and Smooth Operation** are provided by the overhead Track and Trolley System. Heavy duty self cleaning Cannon Ball™ round track combined with lifetime delrin wide base wheel trolleys with roller bearings provide smooth operation. The hand made corner radius track section includes welded brackets and splice collars for superior strength. Splice collars join each straight track section. A Thrust Bearing lets the trolley pendant rotate in the door and a Compression spring keeps tension on each trolley so multiple panels can go around the corner without binding in the track for single person operation. The trolley pendant bolt is fully threaded for maximum height adjustment and has an in/out adjustment nut. The 14 gauge straight track and 90 degree radius corner are supported 24" on center with side mount brackets.

**Hinge** is pre-punched for easy attachment to the rear of adjacent verticals or the building column. This is securely attached to the vertical at each girt and bottom rail with a Lock Head Tek screw, each part is a standard industry components from the overhead door industry. Optional exterior hinges are available to out swing the starter panel.