01 / SELECT AND LOAD

Choose the collar family

27 finished parents. Product selection must follow the applicable system and actual service.

Range	Supplied family sizes	Variant
FS	40, 55, 65, 82, 110, 125, 160	Standard (7 parents)
SL	25, 32, 40, 55, 65, 82, 110, 125, 160	Standard + inverted (18 parents)
SL-X	200, 250	Standard (2 parents)

Choose by product family and actual geometry

Select the required size and orientation from the RFA filenames. Nominal product labels, actual collar inside/outside diameters and required core diameters are different values. Check all three against the service and selected system detail.

1 **Load the parent RFA**

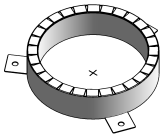
Choose the required RF_Fire_Collar_... file using Insert > Load Family. Collar types are embedded; no companion TXT catalogue is required. Nested components arrive with the parent.

2 **Choose standard or inverted**

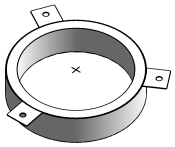
The supplied SL range includes separate standard and inverted parents. Inverted geometry recesses into the host. Standard geometry projects outward. A renamed type does not change fixed CAD geometry.

3 **Confirm the service and opening**

Check collar inside/outside dimensions, actual pipe or service envelope, core diameter and substrate against the selected detail. Family size labels alone do not confirm system suitability.



Standard SL example



Inverted SL example

02 / PLACE AND SET DEPTH

Check both mounting faces

Place the finished parent on the intended exposed face, then inspect it in section.

1 Place on Face

Start Component placement and choose Place on Face. Hover over the intended wall, floor or approved seal face; confirm orientation before placing. Use a clear 3D view.

2 Set RF_Host Thickness

Enter the full distance from the selected mounting face to the opposite intended mounting face. This is manual, rather than a live measurement of the host.

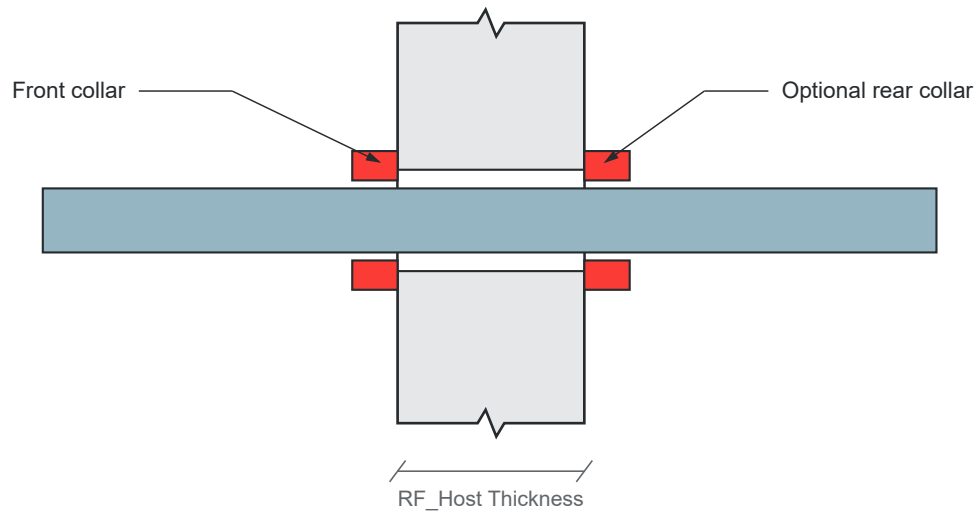
3 Set Opposite Collar Vis

Clear for one side; tick for a rear collar where required. Check that the rear collar lands on the correct face. For a collar hosted on 502, use the seal mounting-face distance.

4 Check RF_Core Ø

This is the opening control. Confirm the required core and its actual cut. Do not use it to resize fixed collar geometry. Check wall/floor and each separate seal element.

STANDARD EXAMPLE



Schematic only - NTS. The example shows two surface collars via the same family; the chosen assessed installation governs whether one or both are needed. An inverted SL family recesses the product into the host instead.

When using a 502 seal

Host the collar on the intended exposed seal face and measure to the opposite collar mounting face. The wall thickness and that distance can differ. Confirm each cut and coordinate the wall aperture independently.

03 / PARAMETERS AND QUANTITIES

Schedule the collars

Use the parent assembly and shared quantity outputs; keep project system information with each installation.

Parameter	Scope / interpretation
RF_Host Thickness	Instance input. Mounting-face to opposite mounting-face distance.
Opposite Collar Vis	Local instance checkbox. Controls the rear collar.
RF_Core Ø	Shared instance input. Required core/opening geometry; check against the selected detail.
RF_Collar Qty	Shared instance output: 1 or 2 from Opposite Collar Vis.
RF_Collar Inside Ø / Outside Ø / Height / Lugs	Shared type properties of the supplied collar. Product dimensions are fixed by the family.
RF_Collar Orientation	Shared type text: Standard or Inverted.
RF_Penetration ID / RF_Substrate / RF_Installation	Shared instance coordination data.
RF_System Ref / Revision / RF_Fire Rating	Shared instance fields for the selected project system. Complete and verify them.
RF_Product Range / Code / Component Role	Shared type identity fields for filtering and documentation.

Example: one parent, two physical collars

One parent with Opposite Collar Vis ticked gives **Count = 1** and **RF_Collar Qty = 2**. Use the sum of RF_Collar Qty for represented collar quantities. Avoid counting nested product geometry again.

Troubleshoot the placement

Rear collar misplaced: recheck face spacing and the opposite-side control. Wrong orientation: inspect the selected face and choose the intended standard/inverted parent. Wrong size: load the correct product family. Missing opening: confirm the host, native cut and any separate seal boards in section.

Use with Verify Before Use and the current Ryanfire system detail. Product/system information: ryanfire.co.nz.