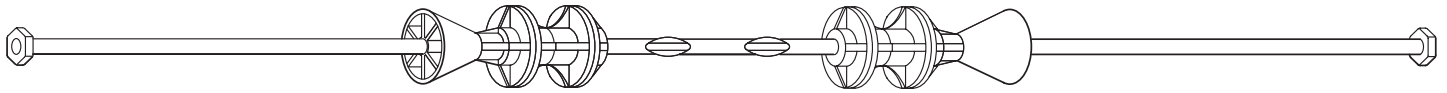


# SPACE-TY™



## BREAK BACK ASSURED

The Space-Ty™ re-bar locating device protects the break point during the concrete placement assuring a positive break and easy removal of the Ty end.

## IMPROVED WATERSEAL

The plastic locating device is securely moulded to the Snap-Ty, effectively breaking the wire surface continuity, reducing the possibility of water seepage.

## FIXED RE-BAR LOCATING DEVICE

Designed to accept and lock in place 10M, 15M, or 20M (#4, #5 or #6) re-bar into the correct position, preventing any movement during the concrete placement.

## REMOVABLE PLASTIC CONE

The Removable Plastic Cone provides for an architectural recess in the concrete which can be sealed using the NCA Plastic Set Back Tyscru Plug or by using standard grouting practices.

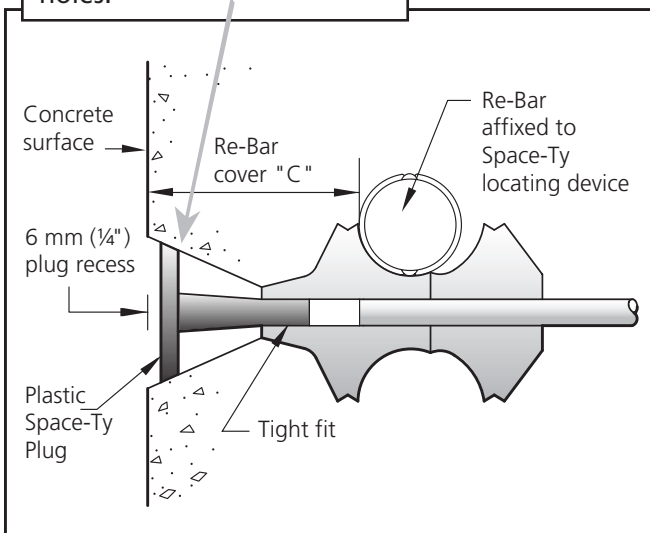
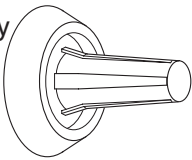
## GUARANTEES CONCRETE COVER

The re-bar locating device guarantees the concrete cover as outlined in CSA -A23-3-M90. The Space-Ty™ rebar locating device complies with the Recommended Practice for Concrete Formwork as outlined in Architectural Concrete (ACI 347-95).

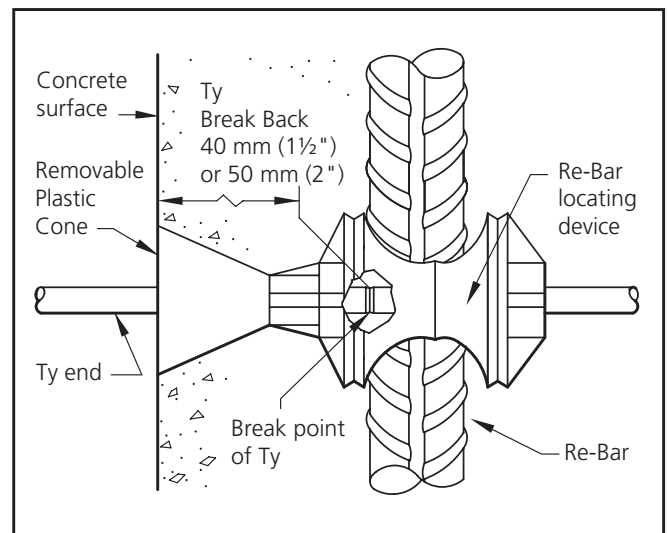
### Guaranteed concrete cover

For exposed conditions of  
40 mm, 50 mm (1½", 2")

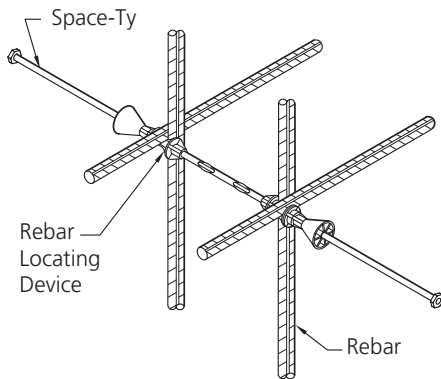
Designed by AR, the Plastic Space-Ty Plug provides an easy and very economical means of sealing tie holes.



**NOTE:** Space-Tys™ have a guaranteed standard 40 mm (1½") set back. A 50 mm (2") set back is available on special order.



# The Space-Ty™ combines all essential features for light concrete forming



## SPACE-TY™ ASSEMBLY

The Space-Ty™ re-bar locating device securely locks the re-bar at a correct distance from the face of the form and eliminates the need for spacers.

Minimum end length of 120 mm (4¾"). Standard sizes stocked in 120 mm (4¾") or 211 mm (8¼") ends.

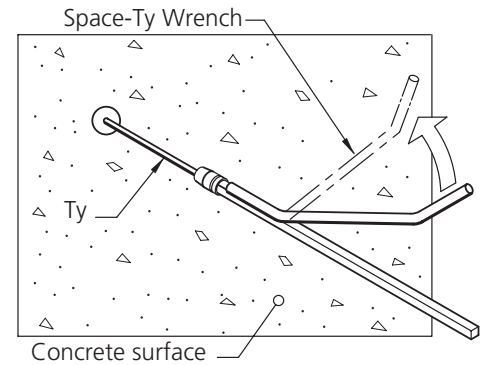
## FORM TY SPECIFICATIONS

Internal form ties shall be so arranged that when the forms are removed, no metal shall be within 40 mm or 50 mm (1½" or 2") of any exposed surface as outlined in CSA-A23-3-M90 or ACI 347-95. Use Space-Tys™ or approved equal and seal the tie holes with PVC plugs. The light grey plugs complement the adjacent concrete.

### To order, please specify the following information

EXAMPLE	
Name	Space-Ty
End	211 mm (8¼")
Wall	300 mm (12")
End	211 mm (8¼")
"C" dimensions	
40 mm or 50 mm (1½" or 2")	40 mm (1½")
Quantity (packs of 50)	200

SWL is based on an approximate 2:1 Factor of Safety

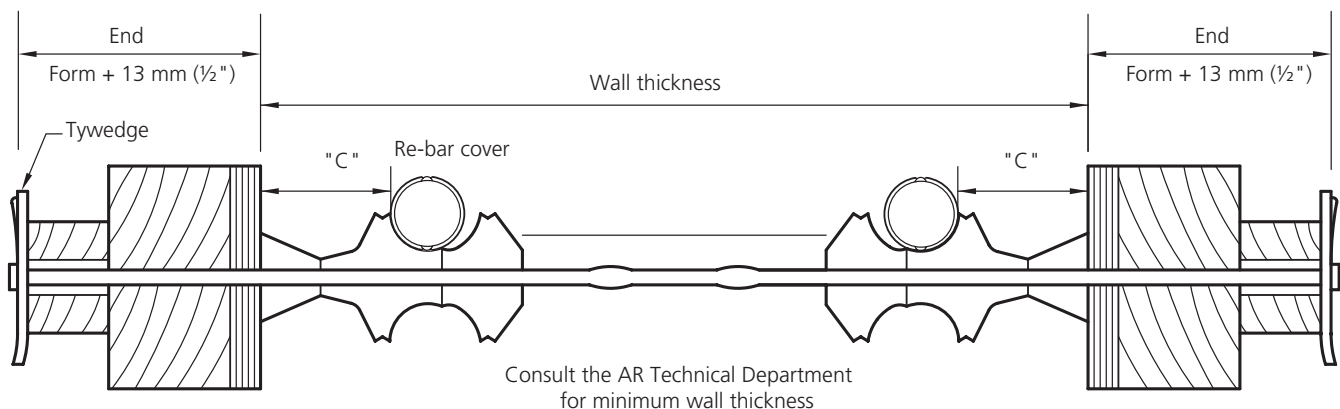


## BREAK BACK TY

To facilitate the stripping of forms, the Space-Ty™ can be broken back prior to form removal. Using a Space-Ty™ wrench or standard 13 mm (½") socket wrench, twist and remove the Ty end.

## SAFE WORKING LOAD 13.5 kN (3,000 LBS)

**2:1 Safety Factor**



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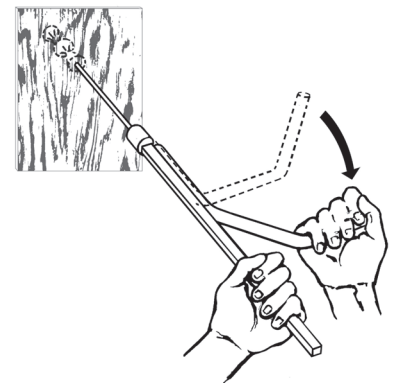
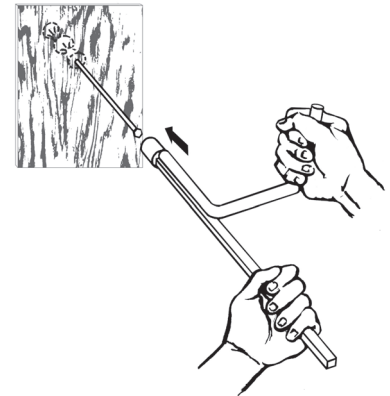
## Stripping of Snap-Tys and guidelines for break back

AR Snap-Ty break backs are manufactured to exacting standards that ensure that they perform to load requirements while providing a consistent and reliable breaking point. However, many factors affect the performance of the break backs.

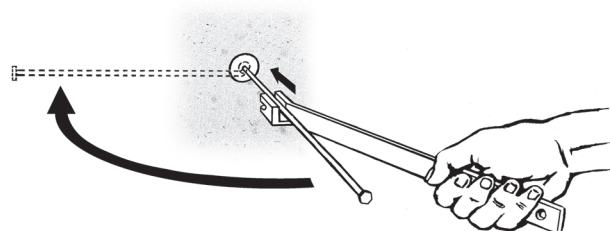
- Snap-Tys must not be bent during installation as the break back could be adversely affected.
- For best results, Tys are not to be removed until concrete has gained sufficient strength to prevent the Ty upset from rotating — typically 2 to 3 days. Attempting to break the Ty in green concrete may result in the Ty rotation in the concrete and make it difficult to break the Ty.
- Only Space-Tys have a guaranteed break back.
- Other Snap-Ty products are designed to provide a consistent break back, but can be affected by the concrete, which could generate difficulties in achieving a consistent break back.
- Products like the Steel Washer, No Washer and No Spreader Snap-Tys where the break back could be contained within the concrete require extra attention. With increased bond length AR cannot guarantee that the Ty will consistently provide the proper break back. For these products, this is especially important where break backs of over  $\frac{3}{4}$ " (20 mm) are desired. A good quality release agent/grease (acceptable non-staining) applied between the break back and the face of formwork (grease wire to be embedded, that will be removed — do not grease head area) may facilitate more consistent results. On site tests should be conducted to identify if consistent results can be achieved with the concrete mix and Ty.
- If the washer or cone is not free of the concrete, chip away the concrete using a hammer, screwdriver or drill to free the embedded components. Failure to free up the embedded components could result in the break back closer to the surface of the concrete instead of the desired break back location.

Use of the AR Snap-Ty and Space-Ty wrenches will assist with consistency, reduce risk of injury and speed up removal.

If in doubt, contact AR's technical department for assistance.



**Space-Ty Wrench**

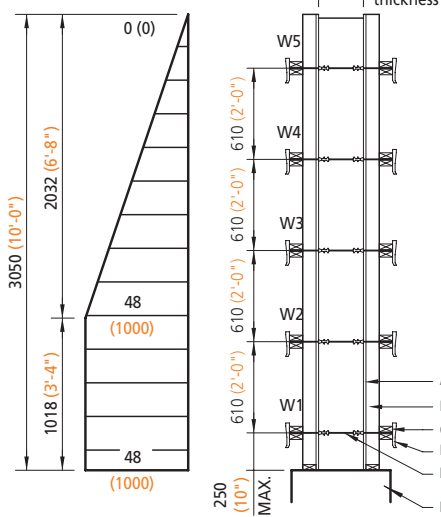


**Snap-Ty Wrench**

# Light Formwork

Typical 3050mm (10'-0") High Wall Formwork, CONTROLLED RATE OF POUR

Form pressure kPa (PSF)



**Snap-Ty**  
10 kN (2,250 lbs)

**spacing:**

W1, W2 and W3 @ 305 (12") on centre

W4 and W5 @ 610 (2'-0") on centre

**Space-Ty™**  
13.4 kN (3,000 lbs)

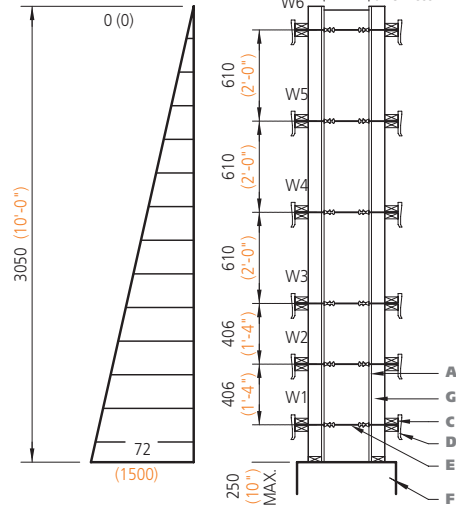
**spacing:**

W1, W2 and W3 @ 406 (1'-4") on centre

W4 and W5 @ 610 (2'-0") on centre

Typical 3050 mm (10'-0") High Wall Formwork, FULL LIQUID HEAD

Form pressure kPa (PSF)



**Snap-Ty**  
10 kN (2,250 lbs)

**spacing:**

W1, W2 and W3 @ 305 (12") on centre

W4 @ 406 (1'-4") on centre

W5, W6 @ 610 (2'-0") on centre

**Space-Ty™**  
13.4 kN (3,000 lbs)

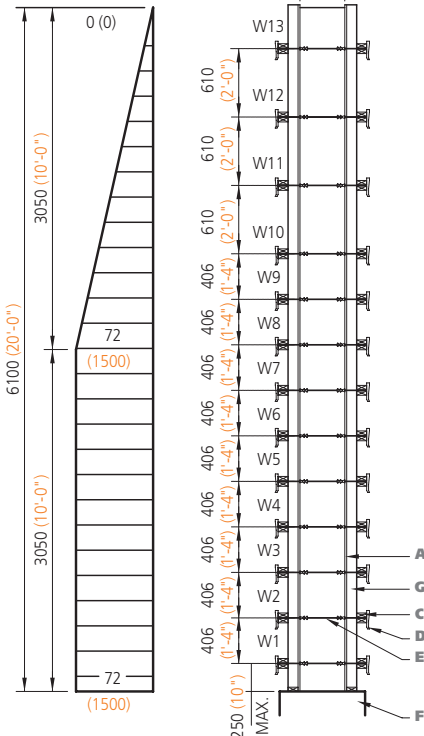
**spacing:**

W1, W2 and W3 @ 406 (16") on centre

W4, W5 and W6 @ 610 (2'-0") on centre

Typical 6100 mm (20'-0") High Wall Formwork, CONTROLLED RATE OF POUR

Form pressure kPa (PSF)



**Snap-Ty**  
10 kN (2,250 lbs)

**spacing:**

W1 to W10 @ 305 (12") on centre

W11 @ 406 (1'-4") on centre

W12 and W13 @ 610 (2'-0") on centre

**Space-Ty™**  
13.4 kN (3,000 lbs)

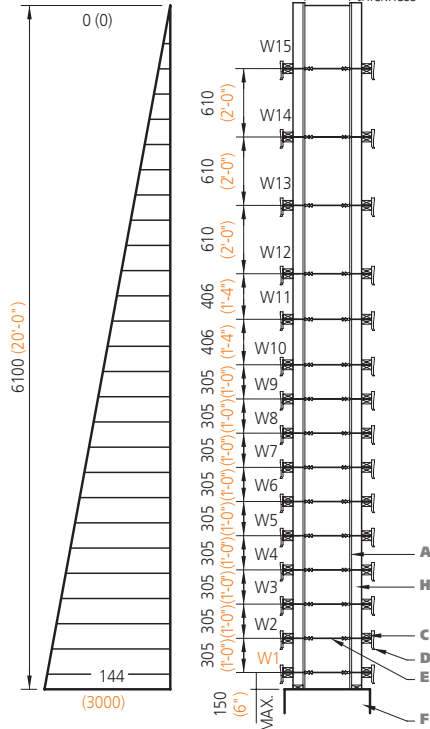
**spacing:**

W1 to W11 @ 457 (1'-6") on centre

W12 and W13 @ 610 (2'-0") on centre

Typical 6100 mm (20'-0") High Wall Formwork, FULL LIQUID HEAD

Form pressure kPa (PSF)



**Space-Ty™**  
13.4 kN (3,000 lbs)

**spacing:**

W1 to W12 @ 305 (12") on centre

W13 @ 406 (1'-4") on centre

W14 and W15 @ 610 (2'-0") on centre

CHART — MAXIMUM RISE OF CONCRETE IN FORMS IN METRES (FEET) PER HOUR

Liquid Head	5° C (40° F)	10° C (50° F)	15° C (60° F)	20° C (70° F)	25° C (80° F)
3050 mm (10'-0") High Wall, Controlled Rate of Pour	N/A	N/A	1 (3)	2 (5)	3.5 (8)
3050 mm (10'-0") High Wall, Full Liquid Head	N/A	N/A	N/A	N/A	N/A
6100 mm (20'-0") High Wall, Controlled Rate of Pour	N/A	N/A	2 (6)	3.5 (8)	4.5 (10)
6100 mm (20'-0") High Wall, Full Liquid Head	N/A	N/A	N/A	N/A	N/A