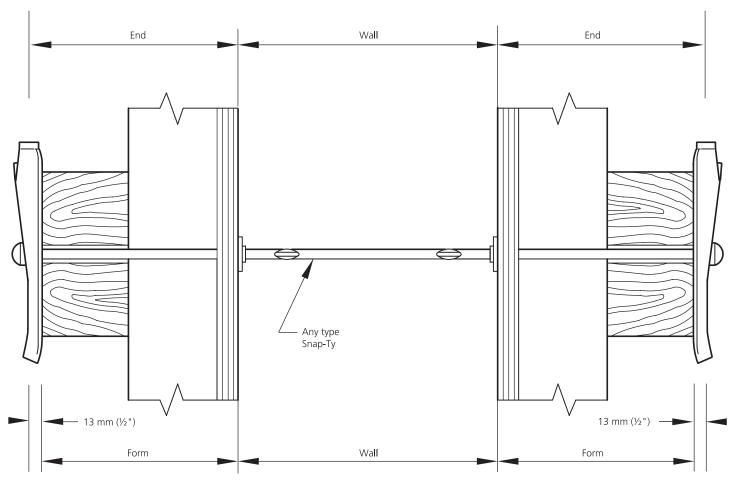


SMAPHY



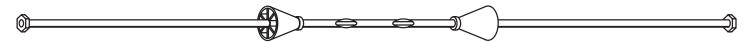
10 kN (2,250 lbs) Snap-Tys are available in stainless steel upon request.

AR Snap-Tys are fabricated to fit either prefabricated panels or built-in-place forms. They are specifically designed for quick, easy and accurate erection of light formwork. End sizes can be as short as 32 mm (1¼") for Steel Washer Snap-Tys or as long as you need them to fit a special condition. Snap-Tys can be fabricated for any required wall thickness up to 6 m (19'-6") in length. Spreader washers are precisely located to give exact wall thicknesses. Break points are located at specified distances back from the wall face to permit clean stripping without spalling. All standard Tys are manufactured to provide set back from the wall face. The small Ty holes and washer indentations are easily pointed, grouted or plugged. Consult the Technical Department for minimum wall thicknesses. For exposed concrete or where a longer set back is required, the AR Space-TyTM is suggested.

Snap-Tys are stocked in 120 mm or 211 mm ($4\frac{3}{4}$ " or $8\frac{1}{2}$ ") ends for standard wall thicknesses.



Plastic Cone Snap-Ty (PC)



The **AR Plastic Cone Snap-Ty** and the **AR Heavy Duty Plastic Cone Snap-Ty** are equipped with a Plastic Cone Spreader providing for a 25 mm (1") set back manufactured for specified wall thicknesses. The plastic cone reduces the likelihood of concrete paste seepage and protects the break back. The break back is approximately 3 mm (1/8") smaller than the cone length. The estimated break back is approximately 22 mm (7/8"). The table provides the length and taper of the cones. Special size cones are available as custom orders. Available in stainless steel.

To order, please specify the following information

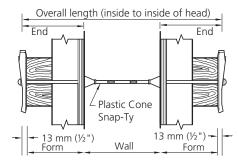
EXAMPLE	
NamePlastic Cone Snap-Ty	/ (PC)
TypeHeavy Dut	y 3M
End 120 mm	(4¾")
	(18")
End120 mm	(4¾")
Break back	
(standard) 22 mm	(⁷ /8")
Strength	0 lbs)
Quantity	. 300
SWL is based on an approximate 2:1 Factor of	Safety

STANDARD 2.25M SAFE WORKING LOAD 10kN (2,250 LBS) 2:1 Safety Factor

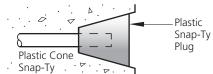
HEAVY DUTY 3M SAFE WORKING LOAD 13.5 kN (3,000 LBS)

2:1 Safety Factor

Set back	Taper Inside to outside	
25 mm (1")	10 mm to 25 mm (³/8" to 1")	



For architechtural design, insert the Plastic Snap-Ty Plug once form work has been removed.



Plastic Washer Snap-Ty (PW)



The **AR Plastic Washer Snap-Ty** and **Heavy Duty Plastic Washer Snap-Ty** are equipped with a plastic washer, provide for a 3 mm to 5 mm (1/8" to 3/16") break back less than the Plastic Washer Thickness and are manufactured for specified wall thicknesses.

The Hex Head allows the Ty end to be broken back prior to removal of the forms, allowing for ease of stripping. Available in stainless steel.

To order, please specify the following information

EXAMPLE
Name ... Plastic Washer Snap-Ty (PW)
Type Standard 2.25M
End 210 mm (8¼")
Wall 250 mm (10")
End 210 mm (8¼")
Break back ... (standard) as above
Strength 10 kN (2,250 lbs)
Quantity (pkg of 100) 400
SWL is based on an approximate 2:1 Factor of Safety

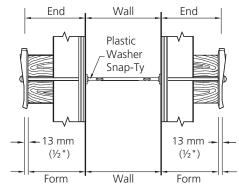
STANDARD 2.25M SAFE WORKING LOAD 10kN (2,250 LBS)

2:1 Safety Factor

HEAVY DUTY 3M

SAFE WORKING LOAD 13.5kN (3,000 LBS)

2:1 Safety Factor



Plastic Washer break back is 3 mm to 5 mm (1/8" to 3/16") less than the plastic washer thickness.

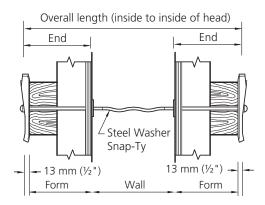
Distributed by: National Concrete Accessories

1-888-777-9272



Steel Washer Snap-Ty (SW)





NOTE: Break backs of over 25 mm (1") can be provided on special orders, but due to the increased concrete bond, AR cannot guarantee that the Tys will consistently provide the proper break backs.

The AR Steel Washer Snap-Ty and the AR Heavy Duty Steel Washer Snap-Ty are manufactured for specified wall thicknesses. The Steel Washer Snap-Ty comes with a button head for 2.25M and Hex Head for 3M at each end. They are equipped with 24 mm (15/16") flat spreader washers at each end and provides for a 15 mm (9/16") break back. Manufactured in stainless steel upon request.

Snap-Ty have hex headed ends. These Snap-Tys are equipped with a

13 mm (½") break back and are manufactured for specified wall

STANDARD 2.25M SAFE WORKING LOAD 10kN (2,250 LBS) 2:1 Safety Factor

HEAVY DUTY 3M SAFE WORKING LOAD 13.5kN (3,000 LBS) 2:1 Safety Factor

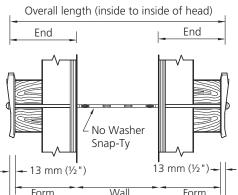
the following information
EXAMPLE
NameSteel Washer Snap-Ty (SW)
TypeHeavy Duty 3M
End 120 mm (4 ³ / ₄ ")
Wall450 mm (18")
End120 mm (4 ³ / ₄ ")
Break back
(standard) 15 mm (9/16")
Strength
Quantity
SWL is based on an approximate 2:1 Factor of Safety

To order please specify

No Washer Snap-Ty (NW)



To order, please specify



the following information

EXAMPLE
NameNo Washer Snap-Ty (NW)
TypeStandard 2.25M
End210 mm (8¼")
Wall200 mm (8")
End210 mm (8½")
Strength13 mm (½")
Strength10 kN (2,250 lbs)
Quantity (lots of 100)200

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

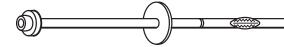
thicknesses. Available in stainless steel.

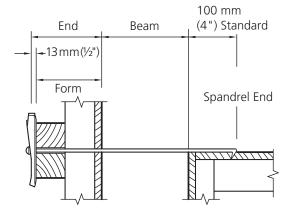
STANDARD 2.25M SAFE WORKING LOAD 10kN (2,250 LBS) 2:1 Safety Factor

HEAVY DUTY 3M SAFE WORKING LOAD 13.5kN (3,000 LBS) 2:1 Safety Factor



Spandrel Beam Snap-Ty





The **AR Spandrel Beam Snap-Ty** is available for light outside spandrel beam forms. The spandrel end has a right angle bent end 38 mm (1½") long with a chisel point designed to be driven into the deck forming. The standard end provides a break point 15mm (9/16") set back from the wall face.

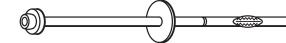
To order, please specify the following information

EXAMPLE
Name Spandrel Beam Snap-Ty
End150 mm (6")
Beam Width 300 mm (12")
Type of Form Plastic Cone
Spreader
Break back
Quantity 200
SWL is based on an approximate 2:1 Factor of Safety SWL is controlled by strength of lumber at hook end

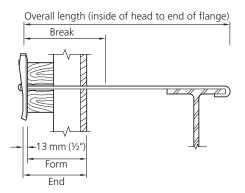
5AFE WORKING LOAD 1.1 kN (250 LBS) 2:1 Safety Factor

ALSO AVAILABLE WITH ANY TYPE OF SPREADER WASHER AND PLASTIC CONE.

Fascia Snap-Ty







The **AR Fascia Snap-Ty** is available for securing light outside spandrel beam forms to structural steel beams in the manner shown.

To order, please specify the following information

EXAMPLE
Name Fascia Snap-Ty
End200 mm (8")
Overall Length600 mm (24")
Flange Depth 20 mm (¾")
Spreader Plastic Cone
Break back
Quantity 400
SWL is based on an approximate 2:0 Factor of Safety

3.6 kN (800 LBS)

2:0 Safety Factor

ALSO AVAILABLE WITH ANY TYPE OF SPREADER WASHER AND PLASTIC CONE.



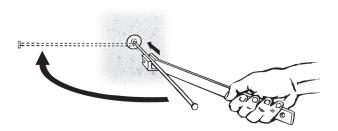
Stripping of Snap-Tys and guidelines for break back

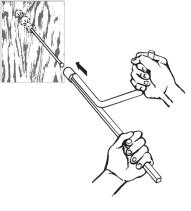
AR Snap-Ty break backs are manufactured to exacting standards that ensure that they perform to load requirements while providing a consistent and reliable breaking point. However, many factors affect the performance of the break backs.

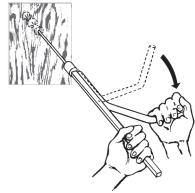
- Snap-Tys must not be bent during installation as the break back could be adversely affected.
- For best results, Tys are not to be removed until concrete has gained sufficient strength to prevent the Ty upset from rotating typically 2 to 3 days. Attempting to break the Ty in green concrete may result 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 NCA cannot guarantee that the Ty will consistently provide the proper break back. For these products, this is especially important where break backs of over ¾" (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.

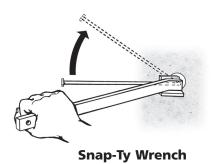
If in doubt, contact AR's technical department for assistance.







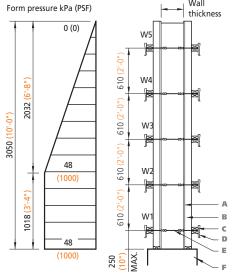
Space-Ty Wrench





Light Formwork

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



Snap-Ty 10 kN (2,250 lbs) spacing:

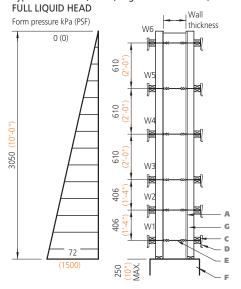
W1, W2 and W3 @ 305 (12") on centre

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,



Snap-Ty 10 kN (2,250 lbs) spacing:

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

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

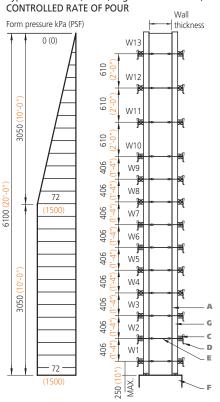
W5, W6 @ 610 (2'-0")

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,



Snap-Ty 10 kN (2,250 lbs) spacing:

W1 to W10 @ 305 (12") on centre

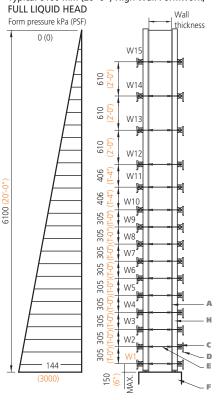
W11 @ 406 (1'-4") on centre W12 and W13

@ 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





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	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 N/A	N/A N/A	N/A N/A		
6100 mm (20'-0") High Wall, Controlled Rate of Pour	N/A N/A	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 N/A	N/A N/A	N/A N/A		