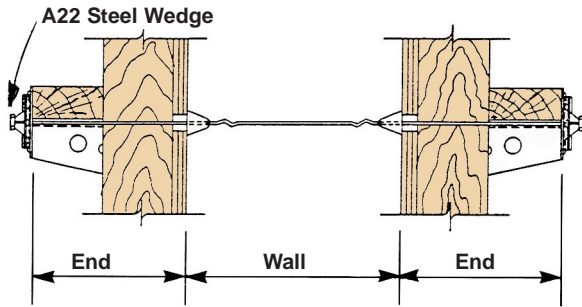


# LIGHT TIE-THRU FORMING

## A11 - A12 SNAP TIES (2.3M)

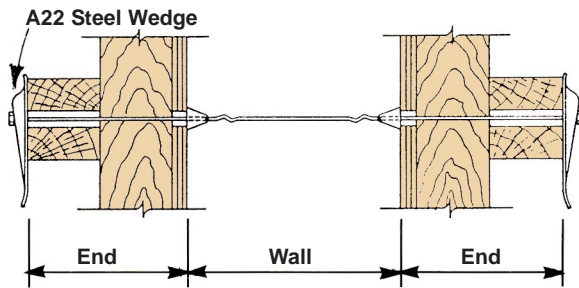


A11 - Stock lengths  
A12 - All other lengths

Williams Integral Head Snap ties were designed for economical forming. The 1" x 1" plastic spreader cone covers the form hole to assure a positive break back every time and the socket head permits the easy break back without removing hardware. Other styles are listed in the chart below.

A11-A12 is available in 3 styles:	End Size	Wall Size	Working Load
RHW-Round head w / washer spreader	4-3/4"	Specify as needed	2,250 lbs. 2 to 1 safety factor
RHC-Round head w / cone spreader	or		
WHC-Wrench head w / cone spreader	8-1/4"		

Standard breakback is 1" with special non-staining wax to prevent bonding at the breakback area. 1/2" available on request.

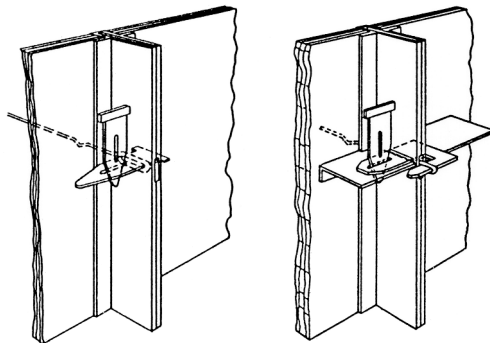


## A13 HEAVY SNAP TIE (3.3M)

Williams A13 Integral Head Snap Ties are used when a working load of 3350 lbs. is desired. Standard break back is 1" with a special wax available at break back area.

For improved performance and guaranteed breakback results, specify plastic cones when ordering snap ties. Williams Form Engineering Corp. cannot guarantee breakback results when only metal washers and wax coating are specified.

A13 is available in 3 styles:	End Size	Wall Size	Ultimate Strength	Working Load
RHW-Round head w / washer spreader	4-3/4"	Specify as needed	6,500 lbs.	3,350 lbs. 2 to 1 safety factor
RHC-Round head w / cone spreader	or			
WHC-Wrench head w / cone spreader	8-1/4"			



S-Panel Loop Ties  
(A-14, 15, 18 and 19)

S-Gang Loop Tie  
(A-16, 17)

## A14 - A15 S-PANEL LOOP TIES



Designed for use with modular style forms. Manufactured with 2-1/8" ends and a standard break back of 1".

## A18 - A19 S-PANEL LOOP TIES



Same as A14 - A15, with 1 x 1 inch plastic cones for better break back.

## A16 - A17 S-GANG LOOP TIE



The A16 - A17 S-Gang Loop Tie is manufactured the same as the S-Panel ties with the exception of the end. The end has been increased to 4-15/16" to accommodate the gang form bolt.

No.	Working Load lbs./kN
A14	2250/ 10.0
A15	3000/ 13.3
A18	2250/ 10.0 with 1" x 1" cone
A19	3000/ 13.3 with 1" x 1" cone
A16	2250/ 10.0
A17	3000/ 13.3