

Panel Clips / Trim Clips

Snap Fit Design

The product displayed in this catalog is a preferred sampling of the larger product offering. For additional product refer to our website or contact a sales professional.

TRIM CLIPS

ARaymond Tinnerman's Trim Clip fasteners are designed for use over rectangular studs or integrally molded blades, ribs, etc. on trim strips, access plates, or any light application where removability is a factor.

Trim clips are simply snapped into a specified hole in the substrate making installation and removal easy. The self-equalizing retaining legs are formed into a dart-type configuration for easy mounting and assure a snug, rattle-free installation, yet will yield to deliberate removal force applied to the trim or plate.

Standard trim clips are most widely used. They can be used to allow panels to withstand disassembly with light to moderate loads.

High strength trim clips are used in similar panel orientations as standard trim clips, but used when panels are subjected to stronger or cyclical loading.

Single-sided trim clips are usually used in tandem with other single sided trim clips to engage an edge of a cavity.

Dart style clips are used in applications where the substrate is some distance from the mating panel, in many cases these are used to allow a wire path between the two panels.

Right angle trim clips can be used to attach two parallel sheet metal surfaces.

Tubular style trim clips could be easily categorized as a stud receiver. This part snaps into the substrate, hole first, then accepts a stud.

Industries and Applications

- Trim applications
- Close-out applications
- Vending
- ATM
- Specialty furniture applications

Benefits

- Parts are hidden - Provides for unblemished exposed panel surfaces
- Removeable, reusable
- Easy install - Snap together in seconds
- No tools required
- Serviceable - Parts disassemble easily and reliably

Note: Excessive removal can cause some degradation to mating panels

Performance Specifications

Insertion and retention performance is dependent on component attributes and material. ARaymond Tinnerman will offer samples for testing or will perform testing on customer provided components.



Standard



High Strength



Single-Sided



Dart Style - Square



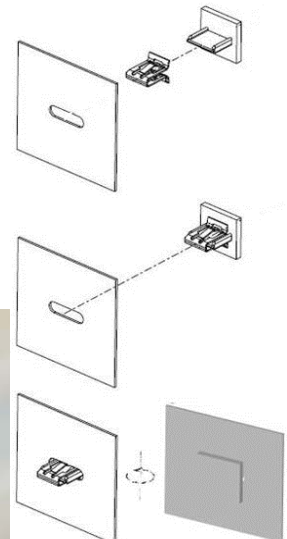
Dart Style - Round



Right Angle



Tubular



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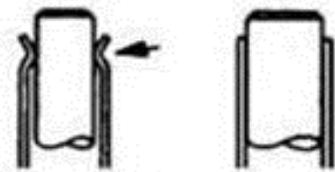
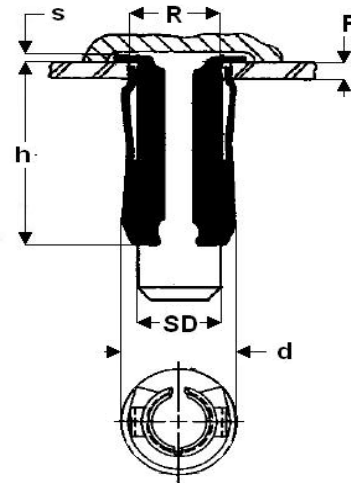
Most of the products featured on this page are manufactured with spring steel. ARaymond Tinnerman offers these parts in corrosion protection and/or aesthetically pleasing finishes. Parts may also be available in stainless steel.

Tubular Clips

Part Number	Stud Diameter (SD)	Panel Thickness (F)	Hole Diameter (R)	Height (h)	Material Thick. (s)	Stud Engaging Feature
D04483-032	3/32"	0.032-0.040	0.120	0.170	0.010	Standard
C02374SS-012	1/8"	0.060-0.066	0.161	0.250	0.012	Standard
C03810-012	1/8"	0.089-0.095	0.162	0.220	0.012	Standard
C02198-032	3/16"	0.030-0.036	0.228	0.450	0.012	Standard
D02822-064	3/16"	0.062-0.068	0.228	0.450	0.012	Standard
C02201-081	3/16"	0.079-0.081	0.228	0.450	0.011	Standard
C02201-094	3/16"	0.092-0.098	0.228	0.450	0.012	Standard
C22519-115	3/16"	0.115-0.121	0.228	0.460	0.011	Standard
C03598-036	1/4"	0.034-0.040	0.281	0.460	0.012	Standard
C03598SS-075	1/4"	1.850-2.000	7.170	12.200	0.300	Standard
C24583-012	1/8"	NA	0.162	0.220	0.011	Standard
C25112-049	5/32-4mm	0.049-0.059	0.228	0.440	0.011	Standard
D02350-032	3/16"	0.030-0.044	0.228	0.460	0.012	Standard
C02442-081	3/16"	0.079-0.085	0.228	0.460	0.012	Standard
C44043-081	3/16"	0.081-0.097	0.228	0.460	0.011	Standard
C02866-125	3/16"	0.123-0.129	0.228	0.460	0.011	Standard
C22310-030	1/4"	0.030-0.034	0.312	0.360	0.014	Standard
C21585-040	1/4"	0.040-0.062	0.312	0.360	0.014	Standard
C03318-125	1/4"	0.123-0.129	0.312	0.360	0.014	Standard
<i>D98747-036M</i>	<i>9mm</i>	<i>NA</i>	<i>10.500</i>	<i>6.400</i>	<i>0.360</i>	<i>Standard</i>

Bold Italics: Metric

STANDARD DESIGN



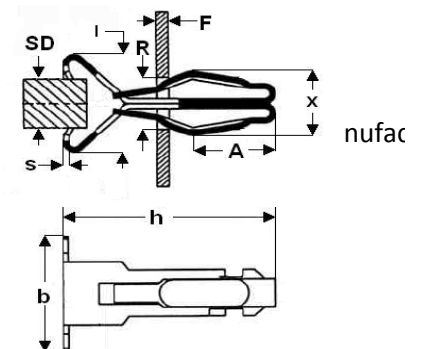
REMOVABLE LOCK

SLIDE FIT

Dart Style Trim Clips (Round Holes)

Part Number	Stud Diameter (SD)	Hole Diameter (R)	Set-up Height (A)	Height (h)	Material Thick. (s)
D98728-045M	7.00-7.30	7.25-7.75	13.50-16.00	26.50	0.45
D99256-071M	4.65-4.85	7.25-7.75	13.50-16.00	26.50	0.71
D98872-045M	7.17-7.26	7.25-7.75	13.50-16.00	26.50	0.45
D98801-071M	7.00-7.30	7.25-7.75	13.50-16.00	26.50	0.71

All Dimensions in Metric



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Standard Trim Clips

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Part Number	Rib Thickness (F)	Slot Width (B)	Set-up Height (A)	Slot Length (L)	Height (h)	Design Variation
D98786-051M	0.90-1.10	5.70-6.20	6.00-7.00	20.00	14.70	G
D99299-043M	1.10	5.30-5.70	5.60	20.00	7.80	B
D98676-056M	1.12-1.38	5.70-6.20	12.25	12.00	18.20	B
D99301-064M	1.13-1.37	5.75-6.25	4.50	21.00	15.50	LV
D98646-043M	1.17-1.43	6.20-6.70	6.10	11.00	9.50	D
C58005-036M	1.25-1.75	5.20-5.60	6.00-7.00	25.40	13.00	B
D98648-051M	1.37-1.77	8.00-8.50	12.13	20.00	16.50	D
D98901-051M	1.40-1.60	5.70-6.20	7.50-8.50	20.00	14.70	GP
D98810-051M	1.40-1.80	8.00-8.50	11.60-12.80	16.00	16.50	B
D98721-051M	1.60-2.00	8.00-8.50	7.75-8.75	20.00	15.10	C
D98640-051M	1.70-2.10	8.00-8.50	11.60-12.80	16.00	16.55	B
D98568-056M	1.70-2.10	8.00-8.50	12.13	16.00	16.50	A

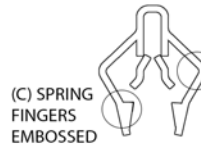
All Dimensions in Metric



(A) SPRING FINGERS PARALLEL



(B) SPRING FINGERS ROLLED



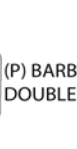
(C) SPRING FINGERS EMBOSSED



(D) SPRING FINGERS BEND IN



(G) SPRING FINGERS STRAIGHT



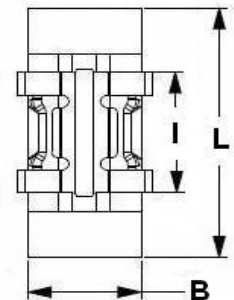
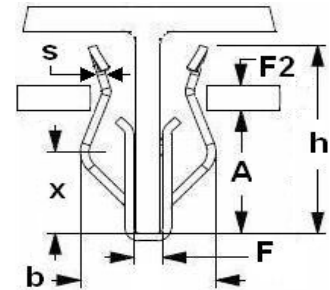
(P) BARB DOUBLE



(L) SPRING FINGER CENTER



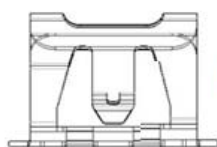
(V) SET-UP MEASURED AT BASE



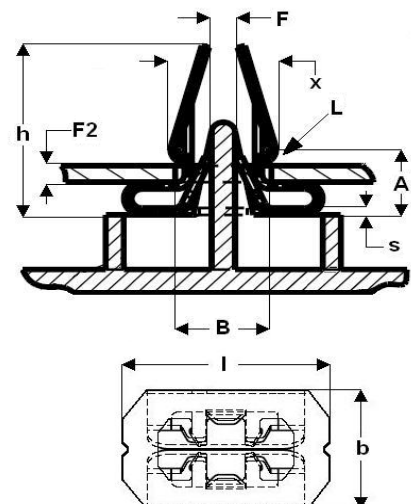
High Strength Trim Clips

Part Number	Rib Thickness (F)	Slot Width (B)	Panel Thickness (F2)	Slot Length (L)	Height (h)	Design Variation
D99214-064M	1.10-1.30	5.75-6.03	0.80-3.00	20.00	15.50	-
D99142-064M	1.75-2.00	5.75-6.03	0.70-0.90	20.00	15.50	C
D98992-064M	1.90-2.10	8.25-8.75	2.30-2.80	22.00	15.50	-
D98991-064M	1.90-2.10	7.75-8.03	0.70-1.20	25.40	15.50	-
D98988-064M	1.90-2.10	7.75-8.03	1.40-1.60	25.40	15.50	-
D98976-064M	1.90-2.10	7.95-8.35	2.90-3.30	25.40	15.50	-

All Dimensions in Metric



(C) Non-Serviceable Tabs



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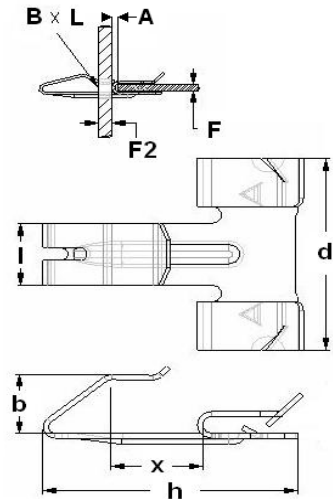
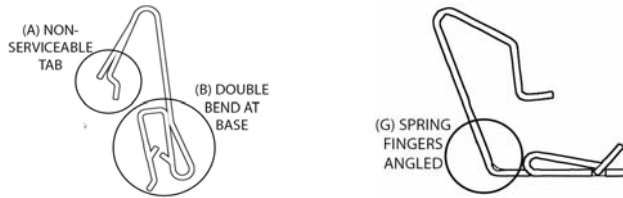
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Dart Style Trim Clips (Square Holes)

Part Number	Rib Thickness (F)	Slot Width (B)	Panel Thickness (F2)	Set-Up Height(A)	Dart Width (I)	Design Variation
D98910-051M	0.90-1.10	6.15-6.65	2.75-3.25	10.700	9.000	G
D98826-051M	1.20-1.50	3.90-4.10	2.40-2.60	3.550	6.350	-
D98680-043M	1.40-1.60	5.90-6.10	2.00-2.50	NA	15.000	AB
D99311-051M	2.40-2.60	11.75-12.25	3.000	7.800	22.000	

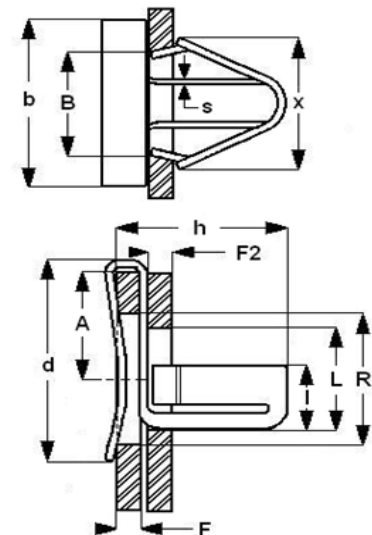
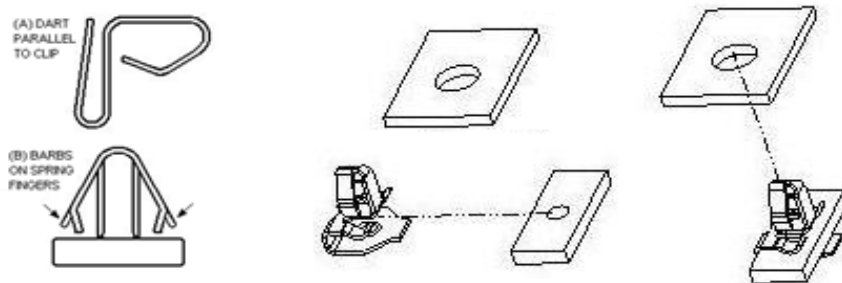
All Dimensions in Metric



Right Angle Trim Clips

Part Number	Panel Thickness (F)	Throat Distance(A)	Panel Thickness (F2)	Slot Width (B)	Slot Length (L)
D98652-071M	0.80-2.00	4.50-5.00	0.81-2.00	7.10-7.90	12.00

All Dimensions in Metric



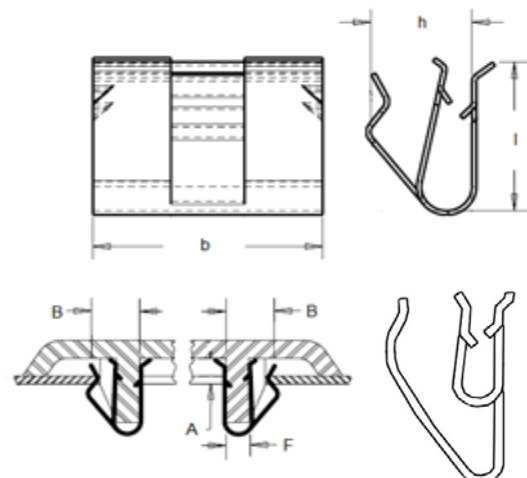
Single-Sided Trim Clips

Part Number	Rib Thickness (F)	Set-up Height (A)	Slot Width (B)	Width (b)	Length (I)	Form
C53121-012	0.040-0.052	0.255	0.185	0.190	0.180	Std
C21449-014	0.040-0.090	0.250	0.156	0.161	0.151	Std
C44725-014	0.045-0.055	0.130	0.145	0.150	0.130	Std
D57067-043M	1.000-1.500	6.600	6.100	5.250	4.750	Std
C22112-020	0.070-0.080	0.220	0.200	0.230	0.200	Alt
C27946-017	0.070-0.080	0.400	0.380	0.290	0.260	Alt

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Notes: Parts can fit in slots or open cavity

* Set-up dimension should be confirmed with ART Product Engineering



Alt Design