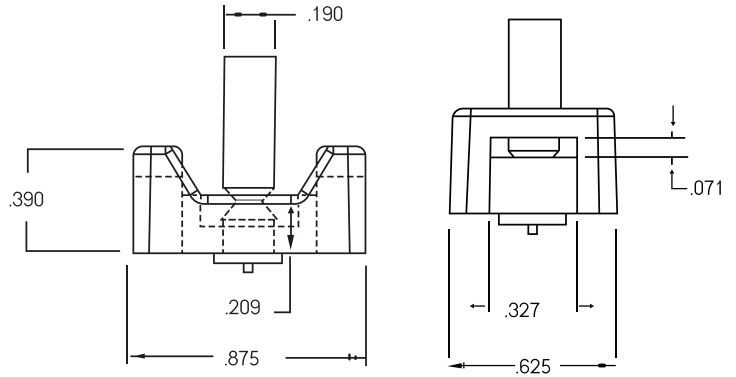
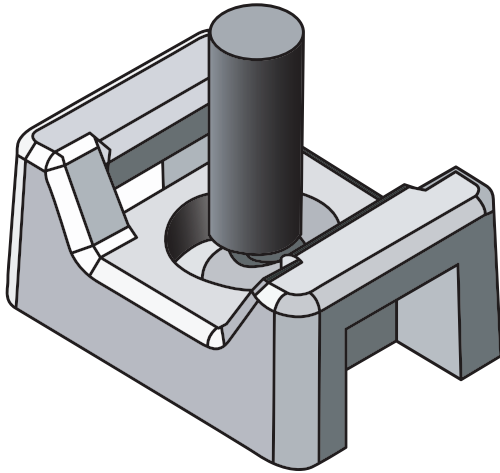


# CD STUDS: WIRE TIE DOWN



<b>STUD</b>	<b>MATERIAL</b>	<b>ALUMINUM</b> Grade – 5000 Series	<b>STAINLESS STEEL</b> AISI grade 302 HQ
	<b>MECHANICAL PROPERTIES</b> <i>(See next page)</i>	Tensile .....45,000 psi (min) Yield.....25,000 psi (min)	Tensile .....85,000 psi (min) Yield.....40,000 psi (min)

<b>SADDLE</b>	<b>MATERIAL</b>	Nylon 6/6
	<b>MECHANICAL PROPERTIES</b>	See Attached data

***TO ORDER OR SPECIFY, GIVE:***

Product Code..... CD WT

Material .....Specify



# WIRE TIE DOWN STUDS MECHANICAL PROPERTIES

PROPERTY	ASTM METHOD	TEST CONDITION	UNITS	NYLON 6/6
Tensile Strength	D638	+73°F; 50% RH	kpsi	11.2
Elongation at Break	D638	+73°F; 50% RH	%	>=300
Yield Strength	D639	+73°F; 50% RH	kpsi	8.5
Shear Strength	D732	Dry as Molded (DAM)	kpsi	9.6
Deformation Under Load	D621	2,000 psi; +122°F; DAM	%	1.4
IZOD Impact	D256	+73°F; 50% RH	ft lb/in	2.1
Tensile Impact Strength	D1822	+73°F; Long Specimen; DAM	ft lb/in	240
Melting Point	D789	Fisher-Johns	°F	491
Thermal Linear Expansion	D696	DAM	in/in/°F	TBD
Thermal Conductivity	--	DAM Conche-Fitch	BTU-in/h*ft*°F	1.7
Brittleness Temperature	D746	50% RH	°F	-85
Oxygen Index	D2863	DAM	%O	28
Oxygen Index	D2864	50% RH	%O	31
UL Flammability	UL 94	DAM	--	V-2
UL Flammability	UL 95	50% RH	--	V-2

## NYLON 6/6 NBS SMOKE GENERATION

SAMPLE THICKNESS	UL FLAMMABILITY	ENERGY SOURCE	SPECIFIC OPTICAL DENSITY	
			AT MAXIMUM SMOKE ACCUMULATION	AT 2 MINUTES
1/16"	94 V-2	Radiant (2.5 watts/sq. cm)	13	0
1/8"	94 V-2	Radiant Plus Flaming Gas Jets	26	1

## NYLON 6/6 TEMPERATURE INDEX

MINIMUM THICKNESS	ELECTRICAL (°C)	MECHANICAL W/O IMPACT (°C)	HOT WIRE IGNITION (SEC)
0.028	125	65	11.8
0.058	125	85	15.0

## NYLON WIRE TIE MECHANICAL DIMENSIONS

	INCH	MM	RETAINING STUD			
			<b>MATERIAL:</b> 302 HQ SS; Ultimate Tensile 85 KPSI			
<b>HEIGHT</b>	0.390	9.90	<b>SIZE:</b> Equivalent to U.S. #10			
<b>LENGTH</b>	0.875	22.22	<b>CHEMISTRY</b>			
<b>WIDTH</b>	0.625	15.87	<b>C</b> 0.017	<b>Mo</b> 0.05	<b>Ni</b> 9.54	<b>Co</b> Trace
<b>SLOT HEIGHT</b>	0.090	2.29	<b>S</b> 0.001	<b>Mn</b> 0.83	<b>Cu</b> 3.07	<b>N</b> PPM 155
<b>SLOT WIDTH</b>	0.325	8.26	<b>Cr</b> 17.5	<b>Si</b> 0.32	<b>P</b> 0.024	<b>Fe</b> Remainder

