

**southco**  
 PROPRIETARY ITEM - EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS PATENT AND OTHERWISE ARE RESERVED BY SOUTHCO, INC.

REV	DATE	DRAWN/CHKD	DESCRIPTION	UPDATE	FORMAT
A	09APR2002	GDM			

No. 85 CLIP-ON RECEPTACLE

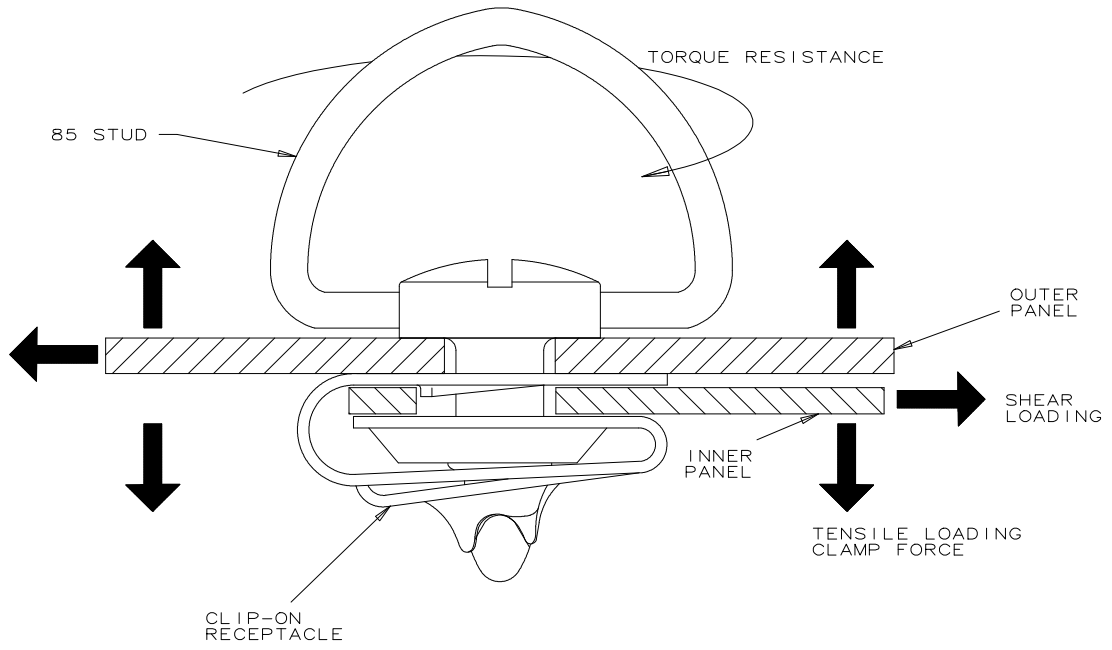
DATE	DRAWN	CHKD	SCALE	DRAWING NUMBER
03JAN94	ALC	ACZ	NTS	TD-85-9-J

THIRD ANGLE PROJECTION  
 A PAPER SIZE

SOUTHCO PERFORMANCE GUIDELINES

THE PERFORMANCE GUIDELINES SHOWN ON THIS PAGE ARE SUPPLIED AS A GENERAL GUIDE ONLY, AS CONDITIONS VARY WITH EACH APPLICATION AND METHOD OF INSTALLATION. STRENGTH DATA GIVEN IS FOR FAILURE OF THE PRODUCT OR FOR SUFFICIENT DEFORMATION TO MAKE PRODUCT INOPERABLE. NO SAFETY FACTOR HAS BEEN APPLIED IT IS RECOMMENDED THAT THE USER REQUEST A PRODUCT SAMPLE FOR TESTING TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURPOSE INTENDED AND USER'S PARTICULAR APPLICATION.

**ALL STRENGTH RATINGS ARE INDEPENDENT OF HEAD STYLE.**



PART NUMBER	85-47-101-15	85-47-101-20
MATERIAL	STEEL	STAINLESS STEEL
MAXIMUM RECOMMENDED WORKING TENSILE STRENGTH ①	1110 N (250 LBS)	1110 N (250 LBS)
AVERAGE ULTIMATE TENSILE STRENGTH ②	4220 N (950 LBS)	3330 N (750 LBS)
CLAMP FORCE ③	110 N (25 LBS)	110 N (25 LBS)
MAXIMUM RECOMMENDED WORKING SHEAR STRENGTH ①	3110 N (700 LBS)	3110 N (700 LBS)
AVERAGE ULTIMATE SHEAR STRENGTH ②	9020 N (2030 LBS)	9020 N (2030 LBS)
MAXIMUM TORQUE RESISTANCE ④	9.6 Nm (85 IN-LBS)	5.6 Nm (50 IN-LBS)
INSTALLATION FORCE ⑤	110 N (25 LBS)	110 N (25 LBS)

- ① WORKING LOAD is the maximum force that the product will withstand without affecting the operation or appearance of the product.
- ② Average ULTIMATE LOAD causes failure of the product or sufficient deformation to make the product inoperable.
- ③ CLAMP FORCE is the force applied to the panel when the assembly is latched at the nominal grip.
- ④ MAXIMUM TORQUE RESISTANCE is the torque that causes the stud to override the receptacle stop.
- ⑤ INSTALLATION FORCE is the force required to install the receptacle onto the minimum inner panel thickness. (tested in 1008-1010 steel)