 <p>SHUR-LOK CORPORATION TECHNICAL SALES BULLETIN</p>	<p>TSB 0011</p> <p>REV ----</p>
<p>TITLE: SL5307 FLUSH MOUNT FLOOR PANEL SPACER- BENEFITS, FEATURES AND INSTALLATION PROCEDURE</p>	<p>Page 1 of 5</p>

For many years Shur-Lok's SL5107 Series spacer has been the standard of choice for aircraft floor panels.

Now, Shur-Lok Corporation introduces a new and improved spacer to their line of floor panel spacers. This **new SL5307 Series** fastener's offers new benefit to customers that satisfy all the rigorous requirements and environmental concerns associated with today's aircraft floors. Flush mounting and self-sealing for wet area applications when specified, the new SL5307 Series is superior to all other floor panel spacers available.



The new SL5307 Series retains the **one-piece** design while offering significant advantages and benefits over all other floor panel products, without sacrificing strength. The design not only offers new benefits, but will carry higher shear values in comparison to current one-piece designs.

Advantages and Benefits include:

Flush Mounting:




For the first time ever the SL5307 Series offers a flush mounting spacer. There is no lip or flange protruding above the top panel. Customers can expect to see reduction in carpet wear, elimination of spacer flange damage sometimes associated with two piece plastic floor products used in some floors.

Sealing Feature:

Concerned about corrosion or liquid leakage through the spacer. When specified the new **SL5307 Series** provides a unique sealing ability that precludes leakage between the screw and spacer; as well as the panel and the outside diameter of the fastener. Verified by testing at 30 PSI for five (5) minutes: a customer no longer would need to use screws with large nylon washers to seal the spacers inner hole. In addition, the added benefit of having a seal around the outer portion of the spacer was never available until now.

PATENT PENDING

Available Configurations:

 SHUR-LOK CORPORATION TECHNICAL SALES BULLETIN	TSB 0011 REV ----
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The new SL5307 is available in various configurations and finishes. The Three basic configurations are:

- < **Flush mount with high screw seat and self-sealing feature.**
- < **Flush mount with high screw seat and no self-sealing feature.**
- < **Note: Both high seat versions allow use of either a flat head screw or a pan head.**
- < **Flush mount with low screw seat and no self-sealing feature(for use with BACS12GR sealing screw).**

Weight:

The SL5307 Series being a one-piece design is very comparable in weight to even a plastic spacer assembly. See table below:


Weight Comparison		
Weight per 100 pieces		Weight difference per 100
Shur-Lok SL5307A3-410	AEP Plastic G2001B-3P and G2002B-3S	
.42	.35	.07

Strength:

The new SL5307 Series still offers the same strength advantage that its SL5107 predecessor exhibits.

In fact for panels requiring additional strength and support around the spacer, potting holes for potting which increases shear strength, are offered for the SL5307 Series when specified. See table below:

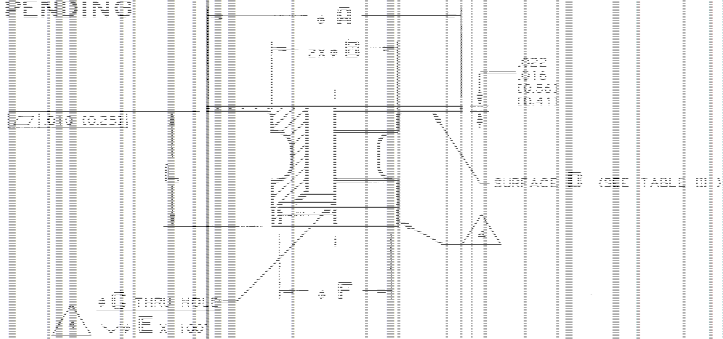
Shear Comparisons (Per SA5321-01049-3)			
Shear in pounds (Comparisons made using Hysol 9309.3 NA Adhesive and SA5321-01049-1-1 Aluminum Core Panel)			
	Shur-Lok SL5307A3T410PH POTTED	Shur-lok SL5107A3T410-H NO POTTING HOLES	AEP Plastic G2001B-3P and G2002B-3S
AVG (8 Specimens)	2425	1850	1893
STD DEV	65.27	103.01	144.91


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Installation Tooling:


Various types of tooling is available for the SL5307. This includes both hand for field installations and automated shop configurations.

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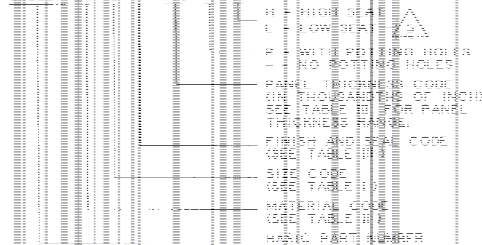
SIZE CODE	A	#E	#OP	#E	#F	INSTALLATION HOLE SIZE
		1000 (10.00)	1008 (10.10)	HIGH SLAT (10.10)	LOW SLAT (10.03)	1003 (10.03)
						
1174 (11.74)	403 (11.03)	404 (11.04)	404 (11.04)	404 (11.04)	404 (11.04)	403 (11.03)

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FR4504 FR4507	FINISH	WEAR	
	ANODIZE B10 MIL-A-8625 TYPE IIA CLASS 1	NONE	
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P	ANODIZE FOR MIL-A-8625 TYPE II CLASS I UNSEAL FLUOROPOLYMER PREPARED PROCESS APPROVAL APPLIED TO SURFACE TO OTHER SURFACES OPTIONAL	NONE	
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PANEL THICKNESS (mm)	PANEL THICKNESS (INCH)	mm
20	0.787	420
	(0.031)	(10.67)
40	1.574	420
	(0.063)	(11.33)
60	2.362	420
	(0.093)	(11.99)

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3. REFER TO 685337 DATA SHEET FOR TOOLING AND
 INSTALLATION PROCEDURE.
4. TYPE OF ADHESIVE AND BONDING METHOD, USER
 OPTION.
5. CONSULT WITH OUR ENGINEERING DEPARTMENT FOR
 OTHER MATERIALS, SPECIFIC TO YOURS.
6. TRANSPARENT SEALANT WHEN SPECIFIED IN NOTED
 ADD TO PREVENT LEAKAGE OF AIR AND GAS
 PANEL CORE AND THROUGHOUT HEAD AFTER
 INSTALLATION.
7. LOW SEAT DESIGNED TO ACCOMMODATE BONDING
 BACKSHEET WITH ADDITIONAL SEALING WASHER.
 1/2" MIN. WITH 1/4" MIN. SEALING
 WASHER, SEE TABLE FOR OVERLAPPING SIZE.

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[illegible]

**Abstract**

# PER-ION

[illegible][illegible]

# Section

[illegible]

1. *Chlorophyll a* (Chl *a*)  
 2. *Chlorophyll b* (Chl *b*)  
 3. *Chlorophyll c* (Chl *c*)  
 4. *Chlorophyll d* (Chl *d*)  
 5. *Chlorophyll e* (Chl *e*)  
 6. *Chlorophyll f* (Chl *f*)  
 7. *Chlorophyll g* (Chl *g*)  
 8. *Chlorophyll h* (Chl *h*)  
 9. *Chlorophyll i* (Chl *i*)  
 10. *Chlorophyll j* (Chl *j*)  
 11. *Chlorophyll k* (Chl *k*)  
 12. *Chlorophyll l* (Chl *l*)  
 13. *Chlorophyll m* (Chl *m*)  
 14. *Chlorophyll n* (Chl *n*)  
 15. *Chlorophyll o* (Chl *o*)  
 16. *Chlorophyll p* (Chl *p*)  
 17. *Chlorophyll q* (Chl *q*)  
 18. *Chlorophyll r* (Chl *r*)  
 19. *Chlorophyll s* (Chl *s*)  
 20. *Chlorophyll t* (Chl *t*)  
 21. *Chlorophyll u* (Chl *u*)  
 22. *Chlorophyll v* (Chl *v*)  
 23. *Chlorophyll w* (Chl *w*)  
 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
 30. *Chlorophyll ad* (Chl *ad*)  
 31. *Chlorophyll ae* (Chl *ae*)  
 32. *Chlorophyll af* (Chl *af*)  
 33. *Chlorophyll ag* (Chl *ag*)  
 34. *Chlorophyll ah* (Chl *ah*)  
 35. *Chlorophyll ai* (Chl *ai*)  
 36. *Chlorophyll aj* (Chl *aj*)  
 37. *Chlorophyll ak* (Chl *ak*)  
 38. *Chlorophyll al* (Chl *al*)  
 39. *Chlorophyll am* (Chl *am*)  
 40. *Chlorophyll an* (Chl *an*)  
 41. *Chlorophyll ao* (Chl *ao*)  
 42. *Chlorophyll ap* (Chl *ap*)  
 43. *Chlorophyll aq* (Chl *aq*)  
 44. *Chlorophyll ar* (Chl *ar*)  
 45. *Chlorophyll as* (Chl *as*)  
 46. *Chlorophyll at* (Chl *at*)  
 47. *Chlorophyll au* (Chl *au*)  
 48. *Chlorophyll av* (Chl *av*)  
 49. *Chlorophyll aw* (Chl *aw*)  
 50. *Chlorophyll ax* (Chl *ax*)  
 51. *Chlorophyll ay* (Chl *ay*)  
 52. *Chlorophyll az* (Chl *az*)  
 53. *Chlorophyll aza* (Chl *aza*)  
 54. *Chlorophyll abz* (Chl *abz*)  
 55. *Chlorophyll acz* (Chl *acz*)  
 56. *Chlorophyll adz* (Chl *adz*)  
 57. *Chlorophyll aez* (Chl *aez*)  
 58. *Chlorophyll afz* (Chl *afz*)  
 59. *Chlorophyll agz* (Chl *agz*)  
 60. *Chlorophyll ahz* (Chl *ahz*)  
 61. *Chlorophyll aiz* (Chl *aiz*)  
 62. *Chlorophyll ajz* (Chl *ajz*)  
 63. *Chlorophyll akz* (Chl *akz*)  
 64. *Chlorophyll alz* (Chl *alz*)  
 65. *Chlorophyll amz* (Chl *amz*)  
 66. *Chlorophyll anz* (Chl *anz*)  
 67. *Chlorophyll aoz* (Chl *aoz*)  
 68. *Chlorophyll apz* (Chl *apz*)  
 69. *Chlorophyll aqz* (Chl *aqz*)  
 70. *Chlorophyll arz* (Chl *arz*)  
 71. *Chlorophyll asz* (Chl *asz*)  
 72. *Chlorophyll atz* (Chl *atz*)  
 73. *Chlorophyll auz* (Chl *auz*)  
 74. *Chlorophyll avz* (Chl *avz*)  
 75. *Chlorophyll awz* (Chl *awz*)  
 76. *Chlorophyll axz* (Chl *axz*)  
 77. *Chlorophyll ayz* (Chl *ayz*)  
 78. *Chlorophyll ayz* (Chl *ayz*)  
 79. *Chlorophyll azz* (Chl *azz*)  
 80. *Chlorophyll azaa* (Chl *aza*)  
 81. *Chlorophyll abz* (Chl *abz*)  
 82. *Chlorophyll acz* (Chl *acz*)  
 83. *Chlorophyll adz* (Chl *adz*)  
 84. *Chlorophyll aez* (Chl *aez*)  
 85. *Chlorophyll afz* (Chl *afz*)  
 86. *Chlorophyll agz* (Chl *agz*)  
 87. *Chlorophyll ahz* (Chl *ahz*)  
 88. *Chlorophyll aiz* (Chl *aiz*)  
 89. *Chlorophyll ajz* (Chl *ajz*)  
 90. *Chlorophyll akz* (Chl *akz*)  
 91. *Chlorophyll alz* (Chl *alz*)  
 92. *Chlorophyll amz* (Chl *amz*)  
 93. *Chlorophyll anz* (Chl *anz*)  
 94. *Chlorophyll aoz* (Chl *aoz*)  
 95. *Chlorophyll apz* (Chl *apz*)  
 96. *Chlorophyll aqz* (Chl *aqz*)  
 97. *Chlorophyll arz* (Chl *arz*)  
 98. *Chlorophyll asz* (Chl *asz*)  
 99. *Chlorophyll atz* (Chl *atz*)  
 100. *Chlorophyll auz* (Chl *auz*)  
 101. *Chlorophyll avz* (Chl *avz*)  
 102. *Chlorophyll awz* (Chl *awz*)  
 103. *Chlorophyll axz* (Chl *axz*)  
 104. *Chlorophyll ayz* (Chl *ayz*)  
 105. *Chlorophyll ayz* (Chl *ayz*)  
 106. *Chlorophyll azz* (Chl *azz*)  
 107. *Chlorophyll azaa* (Chl *aza*)  
 108. *Chlorophyll abz* (Chl *abz*)  
 109. *Chlorophyll acz* (Chl *acz*)  
 110. *Chlorophyll adz* (Chl *adz*)  
 111. *Chlorophyll aez* (Chl *aez*)  
 112. *Chlorophyll afz* (Chl *afz*)  
 113. *Chlorophyll agz* (Chl *agz*)  
 114. *Chlorophyll ahz* (Chl *ahz*)  
 115. *Chlorophyll aiz* (Chl *aiz*)  
 116. *Chlorophyll ajz* (Chl *ajz*)  
 117. *Chlorophyll akz* (Chl *akz*)  
 118. *Chlorophyll alz* (Chl *alz*)  
 119. *Chlorophyll amz* (Chl *amz*)  
 120. *Chlorophyll anz* (Chl *anz*)  
 121. *Chlorophyll aoz* (Chl *aoz*)  
 122. *Chlorophyll apz* (Chl *apz*)  
 123. *Chlorophyll aqz* (Chl *aqz*)  
 124. *Chlorophyll arz* (Chl *arz*)  
 125. *Chlorophyll asz* (Chl *asz*)  
 126. *Chlorophyll atz* (Chl *atz*)  
 127. *Chlorophyll auz* (Chl *auz*)  
 128. *Chlorophyll avz* (Chl *avz*)  
 129. *Chlorophyll awz* (Chl *awz*)  
 130. *Chlorophyll axz* (Chl *axz*)  
 131. *Chlorophyll ayz* (Chl *ayz*)  
 132. *Chlorophyll ayz* (Chl *ayz*)  
 133.

[illegible]

**TSB 0011**

# SHUR-LOK CORPORATION TECHNICAL SALES BULLETIN


REV ----

**TITLE: SL5307 FLUSH MOUNT FLOOR PANEL SPACER-  
BENEFITS, FEATURES AND INSTALLATION PROCEDURE**

Page 5 of 5

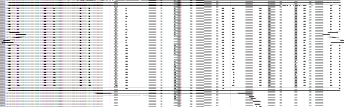
**BONDED, FLUSH SPACER  
FOR SANDWICH PANEL**

= PATENT PENDING




PANEL

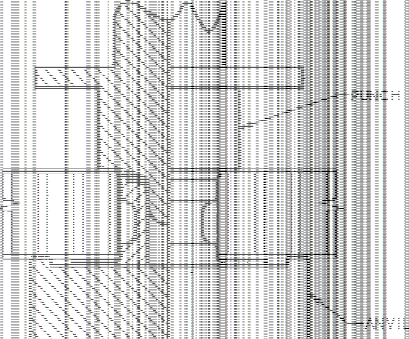
1. DRILL SINGLE INSTALLATION HOLE THRU PANEL. H.L. LABEL 1 FOR INSTALLATION HOLE SIZE. CLEAN INSTALLATION HOLE AREA WITH SUITABLE SOLVENT. RECOMMEND DRYLO WETTED DIAMOND DRILL WA-440-020.
2. APPLY ADHESIVE TO BOTTOM FACE SKIN IN AREA OF CONTACT BY SPACER FLANGES.
3. POSITION PLUG INTO INSTALLATION HOLE FROM BOTTOM SIDE.



ADHESIVE



SPACER



PUNCH

ANVIL

4. APPLY SUFFICIENT FORCE WITH THE PUNCH AND ANVIL TO ACHIEVE A FLUSH SURFACE TO PANEL FACE SKIN.
5. COMPLETED INSTALLATION. ALLOW FOR PROPER CURING BEFORE USING.
6. FOR POTTED-IN TYPE SPACER, INJECT POTTING MATERIAL THRU POTTING HOLES USING SYRINGE OR ANY OTHER MEANS OF INJECTION AFTER SPACER IS INSTALLED INTO PANEL.


POTTING MATERIAL


POTTING HOLES

TABLE 1

| SPACER FIRST DASH NUMBER | PUNCH TOOL PART NUMBER | ANVIL TOOL PART NUMBER | INSTALLATION HOLE SIZE         |
|--------------------------|------------------------|------------------------|--------------------------------|
| 3                        | SLT5307-CP             | SLT5307-CA             | 1442 (111200)<br>1437 (111800) |

METRIC SIZES AVAILABLE ON REQUEST

|                                                                                                                                               |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <br><b>SHUR-LOK CORPORATION TECHNICAL SALES<br/>BULLETIN</b> | <b>TSB 0011</b> |
|                                                                                                                                               | REV ----        |
| <b>TITLE:</b> SL5307 FLUSH MOUNT FLOOR PANEL SPACER-<br>BENEFITS, FEATURES AND INSTALLATION PROCEDURE                                         | Page 6 of 5     |

|                                                                                                                                               |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <br><b>SHUR-LOK CORPORATION<br/>TECHNICAL SALES BULLETIN</b> | <b>TSB 0003</b>      |
|                                                                                                                                               | <b>REVISION PAGE</b> |
| <b>TITLE:</b> SL5307 FLUSH MOUNT FLOOR PANEL SPACER-<br>BENEFITS, FEATURES AND INSTALLATION PROCEDURE                                         |                      |

| <b>REVISION RECORD:</b> |          |                 | <b>APPROVALS:</b>                   |                                      |                                     |
|-------------------------|----------|-----------------|-------------------------------------|--------------------------------------|-------------------------------------|
| REV                     | DATE     | REVISION CHANGE | ORIGINATOR                          | CHECKED                              | APPROVED                            |
| N/C                     | 03/04/99 | Initial Release | _____<br>D. McCorkle<br>ENG Manager | _____<br>T. Riveron<br>Lead Engineer | _____<br>D. McCorkle<br>ENG Manager |

| REVISION RECORD: |  |  | APPROVALS: |  |  |
|------------------|--|--|------------|--|--|
|                  |  |  |            |  |  |