

Procedural Review Voting Sheet

Unballoted Supplementary Material or Preliminary Standard to be published with a Standard or Safety Guideline

REGION/LOCALE: **Japan**
 GLOBAL TECHNICAL COMMITTEE: **PI&C**
 EVENT: **SEMICON Japan**
 DATE OF MEETING: **12/15/2022**
 PLACE OF MEETING: **Official Virtual TC Chapter Meeting (OVTCCM)**
 TC CHAPTER CO-CHAIRS: **Tsuyoshi Nagashima / Miraial, Daisuke Sado / Daihen, Yasuhisa Itou / Murata machinery**
 SEMI STANDARDS STAFF: **Mami Nakajo**

A&R Voter: **Name/Company**
 Date: **MM/DD/YYYY**

I. Document Number, Title

Document Number SEMI E182-0621	Document Title SPECIFICATION FOR PANEL FOU P LOADPORT FOR PANEL LEVEL PACKAGING
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II. Type of Document

Type (Check One)	<input type="checkbox"/>	Preliminary Standard [Regulations § 13]
	X	Related Information [Regulations 4.2.8]
	<input type="checkbox"/>	Various Materials [Regulations 4.2.10]
	<input type="checkbox"/>	Auxiliary Information [Regulations 4.2.3]

Related information 1

APPLICATION NOTES

R1-1 Referenced Documents and Standards

R1-1.1 *SEMI Auxiliary Document*

SEMI AUX033 — 450mm PIC Interoperability Report

R1-2 EFEM Design Considerations when using automation flange

R1-2.1 When using the optional automation flange on the panel FOUN for 510 mm x 515 mm panel as specified in E181.1 and E181.2, the load port supplier must set the appropriate value for y372, which defines FIMS surface. Although y372 of E182 is only specified to be less than or equal to 28.9 mm, the optional automation flange may collide with EB if y372 is too small. The loadport manufacturer may choose to maximize y372 to avoid a collision. Figure R1-1 shows the positional relationship between y 372 and EB.

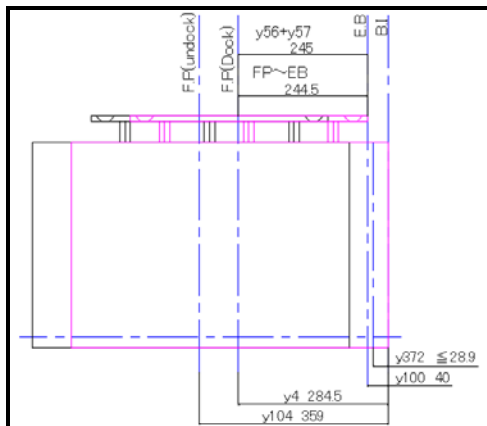


Figure R1-1
Relationship between y372 and EB

R1-3 Hold-Down devices interference

Regarding the interference between the Kinematic Coupling pin and the Hold-Down device mentioned in "2-A. Kinematic Coupling Functionality" in the AUX-033 — 450 mm PIC Interoperability Report, the load port shall be designed in consideration of the lead-in function to compensate for Panel FOUN misalignment during Panel FOUN loading by OHT, PGV, AGV, etc. The red areas shown in Figure R1-2 are areas where there is no possibility of interference in the lead-in during Panel FOUN loading. Hold-Down devices shall be designed not to go beyond this red area.

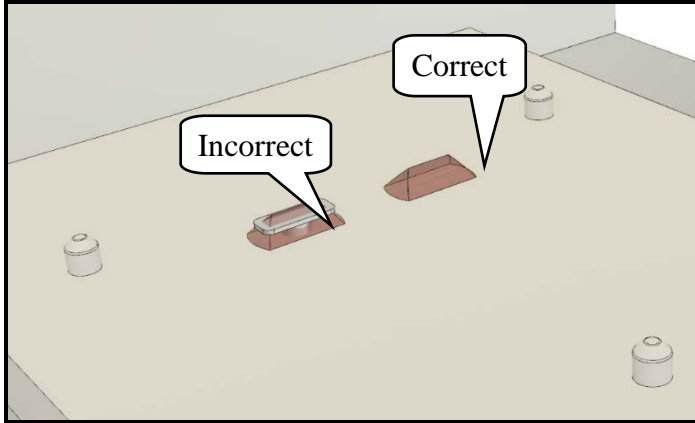


Figure R1-2
Design Example for Hold-Down Devices (Left side incorrect)

III. TC Chapter Vote

Requirements:

- a. the approval of two-thirds of the persons voting on the action during a scheduled meeting of a TC Chapter (see *Regulations* ¶ 7.2.2 for a discussion of when interest voting may be appropriate),
- b. the approval of the GCS of the GTC, and
- c. the approval of the ISC A&R SC.

Note: See *Regulations* ¶ 13.1.1 (Preliminary Standard), ¶ 14.3.1.2 (Related Information), ¶ 14.3.2.2 (Various Materials), or ¶ 14.3.3 (Auxiliary Information)

Accepts	14	
Rejects	0	

Total Votes	14	
Accept %	100%	

IV. Safety Check

Note: See *Regulations* § 15 for further information.

Motion	X	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations</i> ¶ 8.7.1)
		This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations</i> ¶ 8.7.2)
		Safety Checklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (<i>Regulations</i> ¶ 15.1.2)
Motion by/2 nd by		Shoji Komatsu (Acteon NEXT LLC) / Daisuke Sado (DAIHEN Corporation)
Discussion		None
Vote		13 Y - 0 N; Motion passed

V. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline*. See Regulations § 16 for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)			
X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	GO TO SECTION VI.		
	The question is answered in affirmative	Is any of the known IPs a patented technology?	Yes, at least one of them is a patented technology	GO TO V (a) "Patented Technology" subsection
			No	GO TO V (b) "Copyright items" subsection

V (a) Patented Technologies subsection

V (a1) Total numbers of Patented Technologies to be dealt with

# Fill number	(l) Known Patented Technology that might be relevant to the Standard/Safety Guideline	# Fill number	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
		# Fill number	(n) Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot	GO TO V (a2)

V (a2) Assessment of disclosed patented technologies

Disclosed patented technology #1 (Brief description, e.g., patent title and number):		Date of Assessment (If different from the date of Letter Ballot adjudication) MM/DD/YYYY		
Is disclosed patented technology #1 found to be "might be material" to the Standard/Safety Guideline?	YES (It is a PMPT)	Is the use of this PMPT technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO V (a3)
			NO	The Document is failed and returned to the TF

		NO	No further action is needed for patented technology #1
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This table is needed for each disclosed patented technology.

V (a3) LOA status check of PMPT of which inclusion assessed to be justified

LOA Status of PMPT #1					
Has an LOA for this patented technology been received from every owner ?		YES	PROCEED to check NEXT one, or if this is the last one, GO TO V (b)		
		NO	MOTION		
					Ask ISC for special permission to publish.
					Quit activity. The Document is failed and returned to the TF
		Wait for LOA	PROCEED to check NEXT one, or if this is the last one, GO TO V (b1)		
		Motion by/ 2 nd by	Name (Company)/Name (Company)		
		Discussion	XXXX		
		Vote	XX Y-XX N; Motion passed (or failed)		

This table is needed for each PMPT of which inclusion assessed to be justified.

V (b1) Total numbers of copyrighted items to be dealt with

# Fill number	(o) Known copyrighted items that are used or reproduced to the Standard/Safety Guideline	o > 0 There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	GO TO V (b2)
		o = 0 There is no disclosed copyrighted item	GO TO V (c)

V (b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item #1 (Brief description of its use in the Document):				
Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?		YES	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO V (b3)
			NO	The Document is failed and returned to the TF
		NO	No further action is needed for copyrighted item #1	

This table is needed for each disclosed copyrighted item.

V (b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified

Copyright release Status of copyrighted item #1					
Has the copyright release been received from its owner ?.		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO V (c)		
	MOTION	NO		Ask ISC for special permission to publish.	
				Quit activity.	The Document is failed and returned to the TF
				Wait for copyright release letter	PROCEED to check NEXT one, or if this is the last one, GO TO V (c)
		Motion by/ 2 nd by	Name (Company)/Name (Company)		
		Discussion	XXXX		
		Vote	XX Y-XX N; Motion passed (or failed)		

This table is needed for each copyrighted item of which use/reproduction assessed to be justified.

V (c) Assessment of disclosed (identified) trademark

Is there any trademark in the Standard/Safety Guideline?		YES	Is every instance of trademark use technically justified?	YES	GO TO V (d)
				NO	The Document is failed and returned to the TF
		NO	GO TO V (d)		

V (d) IP check completion condition check

The co-chair checks if any Patented Technologies first become known to the TC Chapter on or after the day of the issuance of this Letter Ballot? i.e., m>0 in IX(a1)		YES	Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to VI (making motion to pass/fail this Document) (see Regulations ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
		NO	GO TO X

VI. Action for this Document

Motion	<input checked="" type="checkbox"/>	This Document passed TC Chapter review and will be forwarded to the GCS for their approval.
	<input type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.
Motion by/ 2nd by	Shoji Komatsu (Acteon NEXT LLC) / Daisuke Sado (DAIHEN Corporation)	
Discussion	None	
Vote	14 Y -0 N	
Final Action	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	Motion failed

VII. GCS Review

Method of review		Vote conducted via email
		Vote conducted via teleconference.
		Vote conducted at face-to-face meeting
Discussion	XXXX	
Vote	XX-XX	
Final Action		Approved by the GCS and will be forwarded to the ISC A&R SC for procedural review.
		Not approved