

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **Japan**

Global Technical Committee: **Physical Interface & Carrier Technical Committee**

TC Chapter Cochairs: **N Tsuyoshi Nagashima/Miraial, Yasuhisa Ito/Murata Machinery, Daisuke Sado /Daihen**

Standards Staff: **Hirofumi Kanno (SEMI Japan)**

	Scheduled in Background Statement	Actual
Date	<b>04/14/2021</b>	<b>04/14/2021</b>
Location	<b>Tokyo, Japan / Online</b>	<b>Tokyo, Japan / Online</b>
Reason for Change of Date and/or Location (if changed)	<b>n/a</b>	

Note: See *Regulations* ¶ 9.5 Exceptions for allowable reason to change.

## I. Document Number and Title

<b>Document Number</b> <b>6689</b>	<b>Document Title</b> <b>New Standard: Specification for 300mm Tape Frame FOUP</b>
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## II. Tally

Standards staff to fill in.

Voting Tally: **As-cast tally after close of voting period**

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	<b>59</b>	÷	<b>96</b>	=	<b>61.5%</b>	≥60%
Intercommittee Ballot	<b>41</b>					
Voting Interest Reject(s)	<b>1</b>		Total Voters with Rejects		<b>1</b>	
Voting Interest Accept(s)	<b>42</b>					

Note: See *Regulations* § 3.2.1 for definition of Voting Interest.

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: RECIF Technologies)

#### Voter Reject 1 (Voter: Thomas Brillouet (RECIF Technologies))

##### Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		Section 7		
	Negative Text	<p>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</p> <p>FOUP dimensions require a LP design that would not be compatible with existing 300mm equipments (i.e. E63 BOLT standard).  A previous study in a European collaborative program, where a Tape Frame FOUP and its LP were designed and prototyped, showed that compliance with existing 300mm standards was possible (especially E63-BOLT, with for instance a FOUP width of 419mm, and a FOUP's door width of 403mm).  That would greatly ease adoption of such FOUP and LP by the industry, not requiring new equipments and giving the opportunity to handle both wafers and Tape Frames on existing 300mm equipments...</p>		
TF input (optional)				
Withdrawal (check one)	<input type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
	<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 03/20/2021.	GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)	
		<input type="checkbox"/>	Reason	XXXX
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.		
		<input type="checkbox"/>	[Negative is not related.] < 2/3	GO TO "Persuasive" subsection
<input type="checkbox"/>		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
		<input type="checkbox"/>	Reason	
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)		
	Discussion			
		XX Y-XX N; Motion passed/failed.		

Result of Vote (check one)		[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)		Y	GO TO “Address by Technical Change Option” subsection	
		[Negative is related and not persuasive.] < 2/3			N	GO TO “Final” subsection → (E)	
		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)				
		90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection				
Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.						
	Technical Changes	1	FROM: Section/Paragraph XXX				
			TO: Section/Paragraph xxx				
			Justification (If necessary)				
		2	FROM: Section/Paragraph XXX				
			TO: Section/Paragraph xxx				
			Justification (If necessary)				
	Motion		Negative is addressed by the technical change(s).				
	Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)				
	Discussion						
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.				
				2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO “Incorporation of the Technical Change” subsection		
				[Negative is not addressed by the technical change(s).] < 2/3	GO TO “Final” subsection → (E)		
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).			
		Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)			
		Discussion					
		Result of Vote (check one)		XX Y-XX N; Motion passed/failed.			
					90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)	
					[Disagree to incorporate.]>10%	GO TO “Final” subsection → (E)	
Not Significant	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)						
			It is mutually agreed upon to term the Negative “not significant”.		GO TO “Final” subsection → (D)		

	Use of “Not significant finding option” (check one)	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”.	GO TO “Final” subsection → (C)	
		<input type="checkbox"/>	Whether or not the Negative is “not significant” is decided by a vote.		
	Motion	The Negative is “not significant”.			
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)			
	Vote	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)	
		<input type="checkbox"/>	XX Y-XX N; Motion failed with simple majority	GO TO “Final” subsection → (C)	
Final	(check if applicable)	<input checked="" type="checkbox"/>	(A)	Withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	Not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	Related and not persuasive (significant)	
		<input type="checkbox"/>	(D)	Not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

*This table is needed for each Negative.*

## Negative 2

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.					
		Section 7,					
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Also, on the 25 capacity FOUP (Figure 5), the Tape Frames supports thickness (up to 5mm) seems very big and leaves only 5mm for Frames insertion/extraction. Compatibility with plastic Frames of 2.5mm (some of them going up to 3.5mm) is a concern.					
TF input (optional)							
Withdrawal (check one)		No Negative withdrawal made by Voter.		GO TO "Related" subsection			
	x	Withdrawal document received by Standards staff on 03/20/2021.		GO TO "Final" subsection → (A)			
Related	Motion and Reason (check one)		'Related' is mutually agreed upon. (Needs no motion.)		GO TO "Persuasive" subsection		
			Negative is not related. (Needs ≥2/3 votes to pass.)				
		Reason	XXXX				
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)					
	Discussion						
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.					
			[Negative is not related.] < 2/3		GO TO "Persuasive" subsection		
			2/3 ≤ [Negative is not related.]		GO TO "Final" subsection → (B)		
Persuasive	Motion and Reason (check one)		Negative is related and persuasive. (Needs >1/3 votes to pass.)				
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)				
		Reason					
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)					
	Discussion						
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.					
			[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)		Y	GO TO "Address by Technical Change Option" subsection
			[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
		2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)				
		90% ≤ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection				

Address by Technical Change Option	Technical Change Recommendations Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.				
	Technical Changes	1	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph XXX		
			Justification (If necessary) Same thickness as 300mm FOUP defined in E47.1		
		2	FROM: Section/Paragraph XXX		
			TO: Section/Paragraph xxx		
			Justification (If necessary)		
	Motion		Negative is addressed by the technical change(s).		
	Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)		
	Discussion				
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.		
			<input type="checkbox"/> 2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO “Incorporation of the Technical Change” subsection	
			<input type="checkbox"/> [Negative is not addressed by the technical change(s).] < 2/3	GO TO “Final” subsection → (E)	
	Incorporation of the Technical Change	Motion		To incorporate the technical change(s).	
		Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)	
		Discussion			
		Result of Vote (check one)		XX Y-XX N; Motion passed/failed.	
<input type="checkbox"/> 90% ≤ [Agree to incorporate.]				GO TO “Final” subsection → (F)	
<input type="checkbox"/> [Disagree to incorporate.]>10%				GO TO “Final” subsection → (E)	
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)				
	Use of “Not significant finding option” (check one)	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”.	GO TO “Final” subsection → (D)	
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”.	GO TO “Final” subsection → (C)	
		<input type="checkbox"/>	Whether or not the Negative is “not significant” is decided by a vote.		
	Motion		The Negative is “not significant”.		
	Motion by/ 2 <sup>nd</sup> by		Name (Company)/Name (Company)		
	Vote	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)	
<input type="checkbox"/>		XX Y-XX N; Motion failed with simple majority	GO TO “Final” subsection → (C)		

Final	(check if applicable)	x	(A)	Withdrawn (counted under h in disposition)	
			(B)	Not related (counted under i in disposition)	
			(C)	Related and not persuasive (significant)	
			(D)	Not significant (counted under j in disposition)	
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
			(F)	Addressed by technical change (counted under k disposition)	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

This table is needed for each Negative.

Check only when the Document has not been failed.

2	Original number (#) of Negatives			(g)
2	Number of Negatives withdrawn			(h)
0	Number of Negatives found not related			(i)
0	Number of Negatives found not significant			(j)
0	Number of Negatives addressed by technical change (Negative becomes not significant)			(k)
Final	x	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check	
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval Conditions Check	
		Reject without a Negative	Not Valid	

This table is needed for each Voting Interest Reject.

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (Regulations ¶ 9.4.3.3)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (Regulations ¶ 9.6.1.4.5.2)

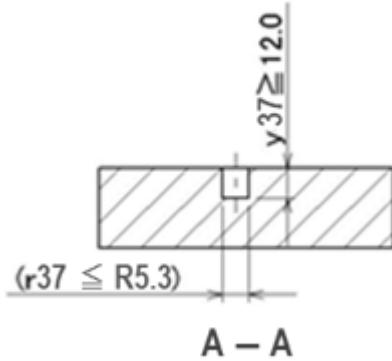
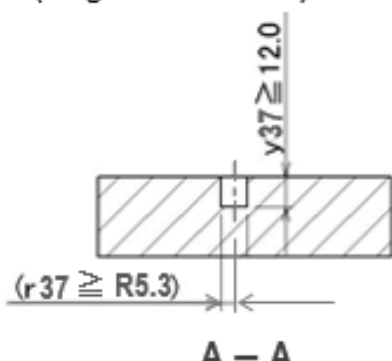
## IV. Other Technical Issues

Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in Regulations § 9.6.1.4.3 to make a technical change to the Document. (Regulations ¶ 9.6.1.4.2.5)

Technical Issue	Origin	*TF/TC Chapter to choose Offline comment from TF member through email after voting		
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate.		
		Figure 2: $r_{37} \leq R_{5.3}$		
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Conflicts found in the document: - Figure 2: $r_{37} \leq R_{5.3}$ (additionally, the figure indicates diameter instead radius) - Table 3: $r_{37} \geq R_{5.3}$ Table 3 is correct.		

Handle technical issue identified above as a Negative.										
Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)					GO TO "Persuasive" subsection		
		<input type="checkbox"/>	Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)							
		<input type="checkbox"/>	Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)							
		<input type="checkbox"/>	Reason		XXXX					
	Motion by/ 2nd by	Name (Company)/Name (Company)								
	Discussion									
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.								
		<input type="checkbox"/>	[Negative is not related.] <2/3					GO TO "Persuasive" subsection		
<input type="checkbox"/>		2/3 ≤ [Negative is not related] and assigned to TF.					GO TO "Final" subsection → (B)			
<input type="checkbox"/>		2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.								
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)							
		<input type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
		<input type="checkbox"/>	Reason		Conflicts in the document itself					
	Motion by/ 2nd by	Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon								
	Discussion	None								
	Result of Vote (check one)	13 Y-0 N; Motion passed.								
		<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3		Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection		
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3			<input type="checkbox"/>	N	GO TO "Final" subsection → (E)		
<input type="checkbox"/>		2/3 ≤ [Negative is related and not persuasive.] < 90%		GO TO "Final" subsection → (C)						
Add	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.									



Technical Changes	1	FROM: Section/Paragraph <b>Figure 2</b> $r37 \leq R5.3$		
		<p>(Registration Hole)</p> 		
		TO: Section/Paragraph <b>xxx</b> $r37 \geq R5.3$		
	2	<p>(Registration Hole)</p> 		
		Justification (If necessary)		
		FROM: Section/Paragraph <b>XXX</b>		
	TO: Section/Paragraph <b>xxx</b>			
	Justification (If necessary)			
	Motion		Negative is addressed by the technical change(s).	
	Motion by/2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon	
Discussion		None		
Result of Vote (check one)		13 Y-0 N; Motion passed.		
		<input checked="" type="checkbox"/> $2/3 \leq$ [Negative is addressed by the technical change(s).]	GO TO “Incorporation of the Technical Change” subsection	
		<input type="checkbox"/> [Negative is not addressed by the technical change(s).] $< 2/3$	GO TO “Final” subsection → (E)	

	Incorporation of the Technical Change	Motion	To incorporate the technical change(s).		
		Motion by/2 <sup>nd</sup> by	Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon		
		Discussion	None		
		Result of Vote (check one)	13 Y-0 N; Motion passed.		
			X	90% ≤ [Agree to incorporate.]	GO TO “Final” subsection → (F)
		[Disagree to incorporate.] >10%	GO TO “Final” subsection → (E)		
Final	(check one)		(B)	Not related	
			(C)	Related and not persuasive	
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		x	(F)	Addressed by technical change	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

Technical Issue	Origin	*TF/TC Chapter to choose Offline comment from TF member through email after voting			
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate.			
		7.3.6.3 The latch torque – When ..., shall be within f34 for both open and close direction. Table 3: (latch torque symbol is missing)			
Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.				
	As described in Table 3, f34 is not the latch torque but door closure force.				
Handle technical issue identified above as a Negative.					
Related	Motion and Reason (check one)	x	'Related' is mutually agreed upon. (Needs no motion.)		GO TO “Persuasive” subsection
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)		
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)		
			Reason	XXXX	
	Motion by/ 2nd by	Name (Company)/Name (Company)			
	Discussion				
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.			
		X	[Negative is not related.] <2/3		GO TO “Persuasive” subsection
		2/3 ≤ [Negative is not related] and assigned to TF.		GO TO “Final” subsection → (B)	
		2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.			
Persuasi	Motion and Reason (check one)	x	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		

		Reason	Conflicts in the document itself				
Motion by/ 2 <sup>nd</sup> by	Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon						
Discussion	None						
Result of Vote (check one)	14 Y-0 N; Motion passed.						
	<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection	
	<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO "Final" subsection → (E)	
	<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%		GO TO "Final" subsection → (C)			
<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							
Address by Technical Change Option	Technical Changes	1	FROM: Section/Paragraph 7.3.6.3 7.3.6.3 The latch torque – When the door is placed at the nominal position, the torque to rotate the latching mechanism shall be within f34 for both open and close direction.				
			TO: Section/Paragraph 7.3.6.3 7.3.6.3 The latch torque – When the door is placed at the nominal position, the torque to rotate the latching mechanism shall be within f30 for both open and close direction.				
			Justification (If necessary)				
		2	FROM: Section/Paragraph Table 3				
			d65 <sup>⚡</sup>	9, 10, 13 <sup>⚡</sup>	10 ± 0.5 <sup>⚡</sup>	x65, FDP <sup>⚡</sup>	surface of cylindrical fork-lift pin holes in left and right bottom conveyor rails <sup>⚡</sup>
			f34 <sup>⚡</sup>	none <sup>⚡</sup>	180 N <sup>⚡</sup>	n/a <sup>⚡</sup>	force to close the door into the nominal door position <sup>⚡</sup>
	TO: Section/Paragraph Table 3						
	d65 <sup>⚡</sup>	9, 10, 13 <sup>⚡</sup>	10 ± 0.5 <sup>⚡</sup>	x65, FDP <sup>⚡</sup>	surface of cylindrical fork-lift pin holes in left and right bottom conveyor rails <sup>⚡</sup>		
	f30 <sup>⚡</sup>	none <sup>⚡</sup>	1.7 N <sup>⚡</sup>	n/a <sup>⚡</sup>	force to rotate the latch mechanism for both open and close direction <sup>⚡</sup>		
	f34 <sup>⚡</sup>	none <sup>⚡</sup>	180 N <sup>⚡</sup>	n/a <sup>⚡</sup>	force to close the door into the nominal door position <sup>⚡</sup>		
Justification (If necessary)							
Motion	Negative is addressed by the technical change(s).						
Motion by/2 <sup>nd</sup> by	Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon						
Discussion	None						
Result of Vote (check one)	14 Y-0 N; Motion passed.						
	<input checked="" type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).]				GO TO "Incorporation of the Technical Change" subsection	
	<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3				GO TO "Final" subsection → (E)	
Incorporation of	Motion	To incorporate the technical change(s).					
	Motion by/2 <sup>nd</sup> by	Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon					
	Discussion	None					

			14 Y-0 N; Motion passed.		
	Result of Vote (check one)	<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)	
			[Disagree to incorporate.] >10%	GO TO "Final" subsection → (E)	
Final	(check one)		(B)	Not related	
			(C)	Related and not persuasive	
			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input checked="" type="checkbox"/>	(F)	Addressed by technical change	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.		

Technical Issue	Origin	*TF/TC Chapter to choose Pointed out in the ballot review in the TF Meeting	
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate.  § § 4.1 NOTE 1: Related Standard below is also under development; - Specification for 300mm Tape Frame FOUP Load Port	
	Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied. Improper referencing in §§4.1, Note 1 The Regulation doesn't allow to refer to the title of documents before publishing.	

Handle technical issue identified above as a Negative.

Related	Motion and Reason (check one)	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
			Negative is not related and assigned to TF. (Needs ≥2/3 votes to pass.)	
			Negative is not related and placed on agenda of current TC Chapter meeting as new business. (Needs ≥2/3 votes to pass.)	
			Reason	XXXX
	Motion by/ 2nd by	Name (Company)/Name (Company)		
	Discussion			
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.	
		[Negative is not related.] <2/3	GO TO "Persuasive" subsection	
		2/3 ≤ [Negative is not related] and assigned to TF.	GO TO "Final" subsection → (B)	
		2/3 ≤ [Negative is not related] and placed on agenda of current TC Chapter meeting as new business.		
Persuasive	Motion and Reason (check one)	<input checked="" type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
			Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	
			Reason	Conflicts in the document itself

Address by Technical Change Option	Motion by/ 2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon					
	Discussion		None					
	Result of Vote (check one)		14 Y-0 N; Motion passed.					
			<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input checked="" type="checkbox"/>	Y	GO TO "Address by Technical Change Option" subsection
			<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N	GO TO "Final" subsection → (E)
			<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
	<b>Technical Change Recommendations</b> Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.							
	Technical Changes	1	FROM: Section/Paragraph 4.1 NOTE 1: Related Standard below is also under development; - Specification for 300mm Tape Frame FOUP Load Port					
			TO: Section/Paragraph 4.1 <del>Note 1: Related Standard below is also under development;</del> <del>- Specification for 300mm Tape Frame FOUP Load Port</del>					
			NOTE 1: A Document covering specification of Load Port that is correspond to this document is under development by the Physical Interface and Carriers Global Technical Committee.					
Justification (If necessary)								
2		FROM: Section/Paragraph Table 3						
		TO: Section/Paragraph Table 3						
	Justification (If necessary)							
Motion		Negative is addressed by the technical change(s).						
Motion by/2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon						
Discussion		None						
Result of Vote (check one)		14 Y-0 N; Motion passed.						
		<input checked="" type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).]	GO TO "Incorporation of the Technical Change" subsection				
		<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3	GO TO "Final" subsection → (E)				
Incorporation of the Technical Change	Motion		To incorporate the technical change(s).					
	Motion by/2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon					
	Discussion		None					
	Result of Vote (check one)		14 Y-0 N; Motion passed.					
			<input checked="" type="checkbox"/>	90% ≤ [Agree to incorporate.]	GO TO "Final" subsection → (F)			
<input type="checkbox"/>	[Disagree to incorporate.] > 10%	GO TO "Final" subsection → (E)						
(check one)		<input type="checkbox"/>	(B)	Not related				

		(C)	Related and not persuasive	
		(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
	x	(F)	Addressed by technical change	
(check if applicable)			Comment generated. See Section V-(ii) Comment # X.	

## V. Comments

### V- (i) Voters' Comments

Commenter 1 (Vargas-Bernal, Rafael/ ITSdl) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.			
	In subsection 7.4.7 'Figure 5.and' must be reedited.			
Action	The TC Chapter agreed to do one of the following actions.			
	*No motion is required in this step.			
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #		
	<input type="checkbox"/>	No further action was taken by the TC Chapter.		
	<input type="checkbox"/>	Refer to the TF for more consideration.		
	<input type="checkbox"/>	New Business		
	x	Editorial Change		
	Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.	
		x	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.	
	Editorial Changes	1	FROM: Section/Paragraph subsection 7.4.7 See Figure 5.and Figure 6.	
			TO: Section/Paragraph subsection 7.4.7 See Figure 5 and Figure 6.	
Justification (If necessary) Remove "." After "Figure 5".				
2		FROM: Section/Paragraph xxx		
		TO: Section/Paragraph xxx		
		Justification (If necessary)		
Motion		To approve above editorial change(s)		
Motion by/2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon		

Discussion	None
Vote	14 Y-0 N; Motion passed.

*This table is needed for each Comment accompanied a Vote*

### Commenter 2 (Kwakman, Laurens/FEI) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	the document is acceptable in terms of writing and definitions, but I cannot judge whether the choices for the values of all the various dimensions are correct.		
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #	
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.	
	<input type="checkbox"/>	Refer to the TF for more consideration.	
	<input type="checkbox"/>	New Business	
	<input type="checkbox"/>	Editorial Change	
	Options for editorial change (check one)	<input checked="" type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.
		<input type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
Editorial Changes	1	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
	2	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
Motion		To approve above editorial change(s)	
Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)	
Discussion		XXXX	
Vote		XX Y-XX N; Motion passed/failed.	

*This table is needed for each Comment accompanied a Vote*

## V-(ii) Comments Created by Handling Negative None

## VI. Editorial Changes Other than Those Voted on in § V None

## VII. Approval Conditions Check

### VII. - (i). Approval Rate

**APPROVAL CONDITION 1:** All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations ¶ 9.6.2.1.2*)

**APPROVAL CONDITION 2:** At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

**Note:** If both approval conditions are not satisfied, the Document fails.

		Accepts		(Accepts + Valid Rejects)					
Approval Rate	=	42	/	42	=	100.0%		≥90%	

### VII. – (ii) Approval Level (check one)

**Note:** See *Regulations § 9.6.2* for further information.

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#### Globally Approved (No Ratification Ballot needed):

The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.

☒

#### Need a Ratification Ballot:

The Letter Ballot meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## VIII. Safety Check

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

Motion	<input checked="" type="checkbox"/>	This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. ( <i>Regulations ¶ 8.7.1</i> )
	<input type="checkbox"/>	This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. ( <i>Regulations ¶ 8.7.2</i> )
	<input type="checkbox"/>	Safety Checklist ( <i>Regulations ¶ 15.3</i> ) is complete and has been included with the Document throughout the balloting process. ( <i>Regulations ¶ 15.1.2</i> )
Motion by/2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD./ Tsukasa Fukunaga / Inficon
Discussion		None
Vote		13 Y-0 N; Motion passed



## IX. 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 ¶ 16.3.1.1</i> ) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations ¶ 16.4.1.2</i> ) in the Standard or Safety Guideline. (Also see, <i>Regulations § 8.8</i> )				
	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 X.		
		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 IX (a) "Patented Technology" subsection
				No	GO TO IX (b) "Copyright items" subsection

### IX(a) Patented Technologies subsection

#### IX(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	

#### IX(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 IX(a3)
				NO	The Document is failed and returned to the TF
			NO	No further action is needed for patented technology #1	

*This table is needed for each disclosed patented technology.*

### IX(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 IX(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 IX(b1)
			Motion by/ 2 <sup>nd</sup> 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.*

### IX(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 IX (b2)
		o = 0	There is no disclosed copyrighted item	GO TO IX (c)

### IX(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	Is the use/reproduction of this copyrighted item technically justified?	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(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.*

### IX(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 IX(c)		
		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 IX(c)
				Motion by/ 2 <sup>nd</sup> 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.

### IX(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 IX(d)
				NO	The Document is failed and returned to the TF
		NO	GO TO IX(d)		

### IX(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 X (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

## X. Action for This Document

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	x	This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.
		This Document failed TC Chapter review and will be returned to the TF for rework.
		This Document failed TC Chapter review and work will be discontinued.
Motion by/ 2 <sup>nd</sup> by		Naomune Taniguchi / TOKYO SEIMITSU CO., LTD. / Tsukasa Fukunaga / Inficon
Discussion		None
Vote		11 Y-0 N
Final Action	X	Motion passed
		Motion failed

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.