

Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: [Japan](#)

Global Technical Committee: [3D Packaging and Integration](#)

TC Chapter Cochairs: [Kazunori Kato/ AiT](#), [Masahiro Tsuruya/ iNEMI](#), [Haruo Shimamoto/ AIST](#)

Standards Staff: [Akiko Yoshida](#)

	Scheduled in Background Statement	Actual
Date	03/09/2026	03/09/2026
Location	SEMI Japan/ Virtual (Hybrid)	SEMI/ Virtual (Hybrid)
Reason for Change of Date and/or Location (if changed)		

Note: Refer to [Regulations ¶ 9.5](#) Exceptions for allowable reason to change.

I. Document Number and Title

Document Number	Document Title
7398	New Standard: TEST METHOD FOR WAFER BOND STRENGTH MEASUREMENT BY DOUBLE CANTILEVER BEAM

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](#))

Note: Refer to [Regulations § 3.2.1](#) for definition of Voting Interest.

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	<input type="text" value="62"/>	÷ <input type="text" value="95"/>	= <input type="text" value="65.26%"/>	≥60%
Intercommittee Ballot	<input type="text" value="41"/>			
Voting Interest Reject(s)	<input type="text" value="1"/>	Total Voters with Rejects		<input type="text" value="1"/>
Voting Interest Accept(s)	<input type="text" value="68"/>			

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: NIST)

Voter Reject 1 (Voter: Richard Allen/ NIST)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.	
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. There should be reference(s) to publication(s) with more detailed technical info. One thing that jumped out is that equation one, isn't actually the formula published by Maszara but an update.	
TF input (optional)			
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)
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. (Needs ≥2/3 votes to pass.)
		Reason	
	Motion by/ 2 nd 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)
Persuasi ve	Motion and Reason (check one)	Negative is related and persuasive. (Needs >1/3 votes to pass.)	
	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)	

		Reason	<p>However, there is no appropriate place in this standardization document to add references to individual publications with more detailed technical discussion. Readers who need the detailed technical background should therefore consult the relevant literature independently.</p> <p>Regarding Equation (1), the Maszara equation is originally a calculation method for estimating surface energy. Strictly speaking, it is not applicable to the calculation of fracture energy obtained by the DCB method. Nevertheless, it has continued to be used incorrectly within the wafer bonding community for many years.</p> <p>One of the main purposes of this standardization effort is precisely to correct this misunderstanding at the global level and to establish a more technically sound and consistent framework.</p>			
Motion by/ 2 nd by	Fumihiko Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)					
Discussion	The TF negotiated the reject voter about withdrawal of the negative, but they could not receive it in time.					
Result of Vote (check one)	12-Y 0-N Voting Result: Pass - 100.00%					
	<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<input 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 checked="" type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
<input type="checkbox"/>	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.					
	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 nd by	Name (Company)/Name (Company)				
	Discussion					
Result of Vote	XX Y-XX N; Motion passed/failed.					

	(check one)		<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/2nd 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/ 2nd 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 type="checkbox"/>	(A)	Withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	Not related (counted under i in disposition)	
		<input checked="" 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. Refer to Section V-(ii) Comment # X.		

This table is needed for each Negative.

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)	
0	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		$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check
	X	$g - (h + i + j + k) > 0$	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)

None identified

V. Comments

V- (i) Voters' Comments

Commenter 1 (**Hajime Mitsuishi/ SCREEN Holdings**) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	The definition of Measurement Start Timing (s) is unclear.	
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 checked="" 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 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.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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 nd by	(Company)/ (Company)	
Discussion	None.	
Vote	XX Y-XX N; Motion passed/failed.	

This table is needed for each Comment accompanied a Vote

Commenter 1 (Hajime Mitsubishi/ SCREEN Holdings) - Comment 2

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	The text states that the free-standing distance shall be fixed by a circle of radius 120 mm drawn from the blade insertion point (Section 7.2), but Figure 3 does not clearly depict a circle. As I am not certain about the level of detail required for this draft document, please feel free to ignore these comments if it is unnecessary	
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
	<input checked="" type="checkbox"/>	Editorial Change
Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
Editorial Changes	1	<p>FROM: Section/Paragraph Figure 3</p> <p>The diagram illustrates a bonded wafer (a large circle) with a blade (a smaller rectangle) inserted into its edge. A dashed circle of radius 120 mm is drawn from the blade insertion point. The distance from the wafer center to the blade insertion point is labeled 'Free-standing Distance'. A magnified view shows the blade insertion length.</p>

<p>TO: Section/Paragraph Figure 3</p>	
<p>Justification (If necessary) Update Figure 3 to clearly depict the circle of radius 120 mm.</p>	
2	<p>FROM: Section/Paragraph xxx</p>
	<p>TO: Section/Paragraph xxx</p>
	<p>Justification (If necessary)</p>
<p>Motion</p>	<p>To approve above editorial change(s)</p>
<p>Motion by/2nd by</p>	<p>Fumihiko Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)</p>
<p>Discussion</p>	<p>None.</p>
<p>Vote</p>	<p>11-Y 0-N Voting Result: Pass - 100.00%</p>

This table is needed for each Comment accompanied a Vote

Commenter 2 (Mei-Chien Lu/ Monte Rosa Technology) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Please clarify the equation (1). The original Maszara formula in the paper "W.P. Maszara et al "Bonding of silicon wafers for silicon-on-insulator, 1988" is $r = 3 E (t^{**3}) (y^{**2}) / (8(L^{**4}))$. Is it necessary to have a reference test conducted under Nitrogen environment or Anhydrous conditions ?	
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
Editorial Change	Options for editorial change (check one)	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.
	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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	1.1 This test method defines the procedure for evaluation of the bond strength of 300 mm bonded wafers using the double-cantilever beam test. for industrial purpose.	
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 type="checkbox"/>	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2 Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
	<input type="checkbox"/>	
	<input type="checkbox"/>	
Editorial Changes	1	FROM: Section/Paragraph xxx
		FROM: 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/2nd by		
Discussion		
Vote	<i>XX Y-XX N; Motion passed/failed.</i>	

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 2

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	5.2.1 Gc — Bonding Energy (Mechanical energy release rate) or adherence energy Critical Mechanical ...	
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 checked="" 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 type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
	<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.
	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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 3

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	5.2.2 γ (gamma) — surface energy Gamma could be defined as it is used bellow in notice N°2. gamma - surface energy	
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 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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 4

Comment	<p>*TF/TC Chapter to fill in section/paragraph #, if necessary.</p> <p>NOTE 1: When the debonding length is in the range of 30–12 mm for 100 μm thick wafers, the bonding energy Gc is 150–5000 mJ/m²; when the debonding length is in the range of 25–60 mm for 400 μm thick wafers, the bonding energy Gc is 150–5000 mJ/m². For safety, the free-standing distance shall be fixed by a circle of radius 120 mm drawn from the blade insertion point, as shown in Figure 3, and the debonding length shall be maintained between 25 mm and 60 mm.</p> <p>Why so thin wafer are taken as example. 100μm silicon should not really be seen in industry. However at least the standard 300mm thickness : 775μm should be taken as an example. If Gc is in the range 150-5000, the debonding is in the range 52.8-21.65 let say 52-21 No it is more 10.92 - 4.23mm. Let say 11-4 No it is more : 31.95-12.97... let say 32-13 20 for 775μm standard wafer</p>	
	<p>The TC Chapter agreed to do one of the following actions.</p> <p>*No motion is required in this step.</p>	
Action	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input type="checkbox"/>	No further action was taken by the TC Chapter.
	<input checked="" type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	<input type="checkbox"/>	
Editorial Change	Options for editorial change (check one)	<p>Case 1: No vote in this section:</p> <p>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</p>
		<p>Case 2: Voted in this section:</p> <p>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</p>
		<p>FROM: Section/Paragraph xxx</p>
		<p>TO: Section/Paragraph xxx</p> <p>Justification (If necessary)</p>
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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 5

	<p>*TF/TC Chapter to fill in section/paragraph #, if necessary.</p>	
Comment	<p>TABLE 1: Blade Length: "Blade Lenght" should be written. Blade Edge Angle: It is defined as Blade Edge angle. Blade Edge Angle Minimum: I do not see the interest to specify the Edge angle AND the Bevel width. We need to specify only one of these two. The most important value is the bevel width as it will need to be added to the measurement. I would specify Bevel width between 0.1mm and 1mm. But this could be discussed of course. I would add as a note how to link Edge angle and bevel width : $\text{angle}=2*\text{atan}(h/2/\text{blade bevel width})$. this will emphasize the fact that the bevel should be defined from both side of the blade. Indeed we can purchase blade completely flat from one side. Blade Bevel Width: it is defined as Blade Bevel Width in the above drawing. Blade Width: What is width ? Is it Blade width ? If yes it should be below Blade lenght 1mm is impossible. At least the Blade width is above 20mm I think but we can discuss about this taking as example standard blade dimension. Blade Width Minimum: 1mm is impossible. At least the Blade width is above 20mm I think but we can discuss about this taking as example standard blade dimension.</p>	
	<p>The TC Chapter agreed to do one of the following actions.</p>	
	<p>*No motion is required in this step.</p>	
	Action	<input type="checkbox"/>
	<input type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input checked="" type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
Editorial Changes	Options for editorial change (check one)	<p>Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i></p>
		<p>Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i></p>
	1	<p>FROM: Section/Paragraph xxx</p> <p>TO: Section/Paragraph xxx</p> <p>Justification (If necessary)</p>
	2	<p>FROM: Section/Paragraph xxx</p> <p>TO: Section/Paragraph xxx</p>

Justification (If necessary)	
Motion	To approve above editorial change(s)
Motion by/2nd by	Name (Company)/Name (Company)
Discussion	XXXX
Vote	XX Y-XX N; Motion <i>passed/failed</i> .

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 6

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	NOTE 4: A light source with infrared wavelengths capable of transmission through silicon material should be used. Like power LED @ 1050nm		
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 checked="" type="checkbox"/>	Refer to the TF for more consideration.	
	<input type="checkbox"/>	New Business	
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.	
	<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)			
Editorial Changes	2	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
Motion	To approve above editorial change(s)		

Motion by/2 nd by	Name (Company)/Name (Company)
Discussion	XXXX
Vote	XX Y-XX N; Motion <i>passed/failed</i> .

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 7

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	NOTE 5: A camera with sensitivity to infrared wavelengths should be employed. Like a CMOS or even better a SWIR camera with at least 1Mp or even better above 5Mp	
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 checked="" type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for editorial change (check one)	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.
		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 nd by	Name (Company)/Name (Company)	
Discussion	XXXX	
Vote	XX Y-XX N; Motion <i>passed/failed</i> .	

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 8

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	8.1.1 Size — The wafer shall have a diameter of 300 mm. and a surface orientation along <001>.		
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 checked="" 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 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)			
Editorial Changes	2	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
Motion	To approve above editorial change(s)		
Motion by/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 9

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	8.1.2 Thickness — Each wafer shall have a thickness of 775 μm. Indeed we are taking only about 775μm silicon wafer why taking of 100μm or 400μm above ?	
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 checked="" type="checkbox"/>	New Business
<input type="checkbox"/>	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.
	<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.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 10

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	8.1.3 <i>Bonding Method</i> — The bonded wafer shall be fabricated by direct bonding. bonded (the bonded wafer)	
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 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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 11

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<p>NOTE 6: The user shall confirm the blade accuracy. When the deformation exceeds the blade thickness, replace the blade.</p> <p>It is far too important. For blade position on a horizontal surface, If overall blade thickness vary by more than +-1%, the blade should be replaced. If the blade bevel width vary by more than +-5% the blade should be replaced.</p>	
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
Editorial Changes	Options for editorial change (check one)	<input type="checkbox"/> Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
		<input type="checkbox"/> Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
		1
		2
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 nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 12

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	<p>10.1 Mount the wafer. Place the blade at the 45°position of the wafer so that it is parallel to the wafer surface. The sentence is not correct. Placing the blade @ 45° do not put the blade parallel the the wafer surface??? it is the case for any blade position allong the wafer edge.</p> <p>"Place one of the 8 possible positions defining <110> or <100> as the main insertion direction for a <001> wafer surface orientation. The notch position @ 0° could be avoided even if the measurement stay valid at this position."</p>		
	The TC Chapter agreed to do one of the following actions.		
Action	*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	
	<input checked="" type="checkbox"/>	Editorial Change	
	Options for editorial change (check one)	<input type="checkbox"/> Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>	
		<input checked="" type="checkbox"/> Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>	
	Editorial Changes	1	FROM: Section/Paragraph 10.1 Mount the wafer. Place the blade at the 45°position of the wafer so that it is parallel to the wafer surface.
			TO: Section/Paragraph 10.1 Mount the wafer. Place the blade Align the blade at the 45°position of the wafer so that it is parallel to the wafer surface notch. The blade shall be parallel to the wafer interface.
Justification (If necessary)			
Editorial Changes	2	FROM: Section/Paragraph xxx	
		TO: Section/Paragraph xxx	
		Justification (If necessary)	
Motion	To approve above editorial change(s)		
Motion by/2nd by	Fumihiko Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)		
Discussion	None.		
Vote	12-Y 0-N Voting Result: Pass - 100.00%		

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 13

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Figure 4 Wafer crystal orientation For a <001> wafer surface direction.	
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 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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 14

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	10.3 Start recording simultaneously with wafer insertion. Record the blade insertion speed as well as the insertion length in the report. as well as the insertion length	
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
Editorial Changes	Options for editorial change (check one)	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
		Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
	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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 15

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	10.3.1 Blade Insertion Speed — 1 mm/s. above or >1mm/s	
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 checked="" 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 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.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 16

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<p>10.3.2 Blade insertion length — 1 - 4 mm.</p> <p>1mm is too low to ensure that the blade bevel is over the wafer bevel which is of 1mm. If we fix the blade bevel width at maximum 1mm, at least the insertion should be 1.5mm to have a little margin.</p>	
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 checked="" type="checkbox"/>	New Business
<input type="checkbox"/>	Editorial Change	
Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section:
	<input type="checkbox"/>	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:
	<input type="checkbox"/>	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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 17

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<p>10.4 Perform time-lapse recording for 5 minutes from the start of blade insertion. Measure the wafer delamination length from the recorded images. There is no need of time laps in this measurement as we will take only the Gc value when the blade stops. 4mm @1mm/s, 4s is enough. Let say 10s before the blade start and 20s after the blade start.</p> <p>Measure the blade position and the wafer delamination length from the recorded image. Indeed we need to know the blade position in order to take the measurement @blade stops.</p>	
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 checked="" type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for editorial change (check one)	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.
		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 nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 18

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<p>10.5 Measure from the center point of the blade length and record the value in the report.</p> <p>Measure the distance between the blade tip and the first optical interference. This should be done at the center of the blade and just after the blade stop. Record this value in the report. the first interference is the one which is the furthest from the blade). This will be called "Infrared delamination length".</p>	
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 checked="" 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 type="checkbox"/>	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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/2nd by	Name (Company)/Name (Company)	
Discussion	XXXX	
Vote	XX Y-XX N; Motion <i>passed/failed</i> .	

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 19

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<p>11.1 <i>Bonding Energy/Strength</i> — Calculate the Bonding Energy of boned wafer using the following equation:</p> <p>Before 11.1, one should calculable the debonding length : Calculate the debonding lenght by adding the blade bevel width to the infrared delamination measurement. The IR invisible distance between the first interference fringe and the real crack tip is neglected here.</p>	
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 checked="" type="checkbox"/>	New Business
<input type="checkbox"/>	Editorial Change	
	Options for editorial change (check one)	<input type="checkbox"/> Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
		<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.
		<input type="checkbox"/>
		<input type="checkbox"/>
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/2nd by	Name (Company)/Name (Company)	
Discussion	XXXX	
Vote	XX Y-XX N; Motion <i>passed/failed</i> .	

This table is needed for each Comment accompanied a Vote

Commenter 3 (Frank Fournel/ CEA) - Comment 20

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	NOTE 7: With a penetration direction along <100>, At the wafer position of 45°, Young's modulus is 131 GPa and Poisson's ratio is 0.28. For the <110> insertion direction, the Young's modulus is 169 GPa and Poisson's ratio is 0.06. With a penetration direction along <100>, It is nearer to 130Gpa For the <110> insertion direction, the Young's modulus is 169GPa and Poisson's ratio is 0.06.	
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 type="checkbox"/>	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 21

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	12.1.1.1 Wafer Material (including crystallographic orientation (Miller index)) this norm is defined only for <001> 300mm standard silicon wafer. Otherwise the young modulus and poisson's ration are not the good one.	
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 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.
	1	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
Editorial Changes	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 nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 22

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	12.1.1.6 Measurement Start Timing (s) Measurement timing before and after the blade stop.	
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 1, Comment 1
	<input type="checkbox"/>	No further action was taken by the TC Chapter.
	<input checked="" 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 type="checkbox"/>	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
	<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.
	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/2nd 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

Commenter 3 (Frank Fournel/ CEA) - Comment 23

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	12.1.1.11 Elapsed Time (s) this is useless if it is given above the time before and after the blade stop.	
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 checked="" type="checkbox"/>	New Business
<input type="checkbox"/>	Editorial Change	
Editorial Changes	<input type="checkbox"/>	Options for editorial change (check one)
		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/2nd 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

Commenter 4 (Satoshi Akiyama/ Nanoverse Technologies) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	In "10. Procedure" on page 4, the "figure 4 Wafer Crystal Orientation" might be misleading. Please take a closer look at the ballot review.	
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
	<input checked="" type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
Editorial Changes	1	FROM: Section/Paragraph Figure 4. Wafer Crystal Orientation
		TO: Section/Paragraph Figure 4. Wafer Crystal Orientation Angular Positions Referenced to the Notch
		Justification (If necessary)
	2	FROM: Section/Paragraph xxx
		TO: Section/Paragraph xxx
		Justification (If necessary)
Motion	To approve above editorial change(s)	
Motion by/2nd by	Fumihiro Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)	
Discussion	None.	
Vote	12-Y 0-N Voting Result: Pass - 100.00%	

This table is needed for each Comment accompanied a Vote

Commenter 5 (Haruo Shimamoto/ AIST) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Make clear about the influence for bonding energy by delamination length including difference of blade insertion length.	
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
	<input checked="" type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.
	<input type="checkbox"/>	
	<input type="checkbox"/>	
Editorial Changes	1	FROM: Section/Paragraph 12.1.1 The test report shall include the following information:
		TO: Section/Paragraph 12.1.1 The test report shall include the following information: Add NOTE: To ensure valid data comparison, it is essential that no required information be omitted. In particular, the parameters that directly affect the bonding energy calculation, including items 12.1.1.1, 12.1.1.3, 12.1.1.7, 12.1.1.9, 12.1.1.10, and 12.1.1.12, are critical.
		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 nd by	Fumihiko Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)	
Discussion	None.	
Vote	12-Y 0-N Voting Result: Pass - 100.00%	

This table is needed for each Comment accompanied a Vote

Commenter 6 (Clark Cao/ NAURA) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	This test method appropriately standardizes the DCB-based measurement of bond strength for direct-bonded 300 mm silicon wafers. To avoid misapplication, please emphasize that the results are intended for method consistency and relative process comparison, and are not meant to be used as absolute acceptance criteria or extrapolated to other wafer materials or bonding schemes.	
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 type="checkbox"/>	Case 1: No vote in this section: <i>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2: Voted in this section: <i>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</i>
	<input type="checkbox"/>	
	<input type="checkbox"/>	
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/2nd 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	=	68		69	=	99%	≥90%

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

Note: Refer to *Regulations § 9.6.2* for further information.

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: Refer to *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 ¶¶ 8.7.1</i>)
		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>)
		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 nd by		Fumihiro Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)
Discussion		None.
Vote		11-Y 1-N Voting Result: Pass - 91.67%

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*. Refer to *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 (refer to <i>Regulations ¶¶ 16.3.1.1</i>) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (refer to <i>Regulations ¶¶ 16.4.1.2</i>) in the Standard or Safety Guideline. (Also refer to <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	GO TO IX (a2)

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		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 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.

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	MOTION	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 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.

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	<input type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input checked="" type="checkbox"/>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	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.
	<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	Fumihiko Inoue (Yokohama National University)/ Shoji Komatsu (Acteon NEXT)	
Discussion	None.	
Vote	12-Y 0-N Voting Result: Pass - 100.00%	
Final Action	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	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.