

**Document: 310.X Specification for Polished Concrete Slab Finishes**

No.	Public Commenter Name	Provision No.	Public Comment	Committee Response
1.	Suprenant	Page 2, line 19	Delete line 19 "3.1.1 Examination" to be consistent with the Contents in which only contents with X.X are presented not X.X.X.	Agreed, done
2.	Jim Cornell	General	The following sections have either a Mandatory Requirements or Optional Requirements Checklist item but the trigger language required by the TCM is not there or does not match correctly. Please correct this editorial item 1.6.1.1, 1.8.3.1, 2.2.4.1, 3.3.3, and 3.2.4.1.	Agreed, added "Unless otherwise specified" or "If required" to all.
3.	Suprenant	Page 3 1.1.8 Units	<b>"1.1.8 Units</b> —Values in this Specification are stated in inch-pound units. A companion specification in SI units is available." Will there be a companion specification in SI units? If not delete last sentence.	Agreed, done
4.	Suprenant	Page 4 1.2.1.6	<b>"1.2.1.6</b> The use of the verbs "may" or "will" indicates that the Specification provision is for in-formation to Contractor." Remove hyphen from "in-formation".	Agreed, done
5.	Suprenant	Page 5 definition	<b>"Aggregate exposure class</b> - denotes the surface exposure after grinding and polishing operations. The density, size and distribution of the aggregates at the surface depends on the concrete mix design and placing and finishing operations. Surface exposure percentages are based on visual observation of the overall area of the polished floor." TCM requests that definitions be one sentence and do not provide context. Recommend this definition be changed to: "the surface exposure after grinding and polishing operations based on visual observation of the overall area of the polished floor." Also, do not capitalize "Aggregate" for consistency with other definition items.	Agreed, done
6.	Suprenant	Page 5 definition	<b>surface defects</b> – aggregate pop-outs, spalls, cracks, pin holes, slab protrusions, scratches, and surface pitting.: Remove colon at end of sentence.	Agreed, done
7.	Suprenant	Page 5 definition	<b>"Contract Documents</b> – set of documents that form the basis of a contractual relationship between the Owner and Contractor or design-builder. These documents are defined by	Agreed, done

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			the contractual agreement, and can contain contract forms, contract conditions, specifications, drawings, addenda, and contract changes.” Documents in the definition title should be bold.	
8.	Suprenant	Page 5 definition	“ <b>crack</b> – a complete or incomplete separation of either concrete or masonry into two or more parts produced by breaking or fracturing.” Consider revising to exclude whether it is complete or incomplete and to exclude masonry which this document does not address; “ <b>crack</b> – separation of concrete into two or more parts produced by breaking or fracturing”.	Agreed, done
9.	Suprenant	Page 5 definition s	“ <b>Distinctness of image (DOI)</b> – a quantification of the deviation of the direction of light propagation from the regular direction by scattering during transmission or reflection. DOI is sensitive to even subtle scattering effects; the more light is being scattered out of the regular direction the more the initially sharp (well defined) image is blurred (that is, small details are lost).” Two comments: (1) the word “image” should have a capital “I” for consistency with the other items in the Contents. And (2) this definition is too long and provides context that is not needed. Recommend: “ <b>Distinctness of Image (DOI)</b> – quantification of the deviation of the direction of light propagation from the regular direction by scattering during transmission or reflection.”	Agreed, done
10.	Suprenant	Page 5 definition	“ <b>grinding</b> – A process achieved by using coarse abrasives to remove surface of the slab without creating a uniform finish.” Delete “A” or not least not have it capitalized for consistency with other items in Contents. Recommend shortening too: “ <b>grinding</b> –using coarse abrasives to remove surface of the slab without creating a uniform finish.”	Agreed, done
11.	Suprenant	Page 6 definition	“ <b>Inspection agency</b> – the person, firm, or entity under contract for providing inspection services.” Capitalize Agency for consistency with other definitions.	Agreed, done

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12.	Suprenant	Page 6 definition	<b>“joint filler – two-component, 100% solids, semi rigid polyurea or epoxy”</b> Remove the bold for consistency with the other definitions.	Agreed, done
13.	Suprenant	Page 6 definition	<b>“Mohs’ Hardness Test</b> – scale used to measure the relative hardness of a mineral by its resistance to scratching.”	Agreed, done
14.	Suprenant	Page 6 definition	<b>“specifications</b> – the written document that details requirements for Work.” Capitalize Specifications for consistency with other definitions such as Drawings.	Agreed, done
15.	Suprenant	Page 7 definition	<b>“testing agency</b> – the person, firm, or entity under contract for providing testing services. “ For consistency with other definitions, capitalize Testing Agency.	Agreed, done
16.	Ermish	Page 6 definition	Add definitions for “Slip Resistance” and “Dynamic Coefficient of Friction (DCOF)”	Tabled as new business at 03-31-20 virtual meeting.
17.	Ermish	Page 7 Ref. Standards	Add the Reference Standard <i>“ANSI A 326.3-2017 American National Standard Test Method for Measuring Dynamic Coefficient of Friction (DCOF) of Hard Surface Flooring Materials”</i>	Tabled as new business at 03-31-20 virtual meeting.
18.	Suprenant	Page 7 1.4.1.1	“ASTM E1155-14—Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers” ASTM uses FF ad FL as F <sub>F</sub> and F <sub>L</sub> where the second F and L are subscripts. Please change in title.	Agreed, done
19.	Suprenant	Page 7 1.4.1.1	This list needs to include these ASTM standards: ASTM D523-14 “Standard Test Method for Specular Gloss” ASTM D5767-17 “Standard Test Method for instrumental Measurement of Distinctness-of-Image (DOI) Gloss of Coated Surfaces” ASTM D4039-09(2015) “Standard Test Method for Reflection Haze of High-Gloss Surfaces”	Agreed, done
20.	Suprenant	Page 7 1.4.1.2	“1.4.1.2 ASCC-CPC Certification Policies February 2019” This is not a referenced standard in accordance with the	Agreed, done

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			Technical Committee Manual and should be removed here. Will handle certification of CPC polisher certification in 1.8.1.2 similar to how ACI 301 handles ACI finisher certification. Also in 1.5.5.3.	
21.	Suprenant	Page 7 1.5.3	<p><b>“1.5.3 Contractor’s quality control plan—Unless specified otherwise, submit a quality control plan showing means, methods, products and equipment to be used to obtain the specified polished slab finish. Provide information related to quality control in accordance with 1.7.1.”</b></p> <p>ACI recognizes, “unless otherwise specified” (see 1.2.1.8 in this document), not “unless specified otherwise”. However, recommend changing “unless specified otherwise” to “If required” which then matches language in ACI 301-16 for contractor’s quality control and then match the statement in the ACI 301 Optional Checklist Requirements (OCR). Recommend this in the OCR: “Specify if Contractor is required to submit a quality control plan.”</p>	Agreed, done
22.	Suprenant	Page 8 1.5.5	<p><b>“1.5.5 Installer qualifications—Submit data for company, principal personnel, experience and training to conform to 1.5.5.1,1.5.5.2,1.8.1,1.8.1.1, 1.8.1.2 and 1.8.1.3: “</b></p> <p>(1) Delete the word “principal” in front of personnel as it is only used in this one location and is not defined in the document. This requirement to submit data is for 1.5.5 and should not be referring to 1.8.1 or 1.8.1.1, 1.8.1.2 or 1.8.1.3. Delete the 1.8 references. Items 1.8.1.1, 1.8.1.2 and 1.8.1.3 are similar to 1.5.5.1, 1.5.5.2 and 1.5.5.3 but are worded differently. These requirements should be in the document only once. Either remove from 1.5.5 or 1.8.1. Also consider which wording that is preferred; that in 1.5.5 or 1.8.1.</p>	Agreed. Deleted all in 1.8.1 with exception to a reference back to 1.5. Voted on at 03-31-20 virtual Meeting.
23.	Suprenant	Page 8 1.5.5.1 to 1.5.7.2	Other numbers are in bold; these numbers are not. Change to bold for consistency in the document.	Agreed, done
24.	Suprenant	Page 8 1.5.5.3	“1.5.5.3 Unless otherwise specified, submit verification that a competent supervisor who is at the Project during the	Agreed, done

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			<p>specified Work is certified as a Concrete Polishing Council (CPC) Craftsman, or equivalent.”</p> <p>The words “unless otherwise specified” is trigger language that requires a statement in the Optional Checklist Requirements. Use language similar to ACI 301-16. Recommend this: “Specify if more or fewer certificate concrete polishers are required or permitted. Concrete polishers should be certified on the basis of work experience or successful completion of a certification program that includes written and performance examinations as described in ASCC CPC Certification Policies, February 2019.</p>	
25.	Suprenant	Page 8 1.5.6	<p>“1.5.6 Polishing Schedule--Submit plan showing polished concrete slab finishes and schedule of polishing operations for each area of polished concrete before start of polishing operations. Include locations of all joints, including construction joints. Schedule to include details of sequencing Work with respect to coordination of other trades interior construction, final weather protection and when protection is necessary if other construction activities could damage the in-place polished Work.”</p> <p>Add space between the number 6 and the word “Polishing” at the start of the sentence.</p>	Agreed, done
26.	Suprenant	Page 8 1.5.7.2	<p>“1.5.7.2 Crack Repair – Unless otherwise specified submit plan locating and identifying concrete cracks. Reference crack locations to building column lines.”</p> <p>Do not capitalize “Repair” for consistency with 1.5.7.1. Put a comma after “unless otherwise specified”. The words “unless otherwise specified” is trigger language that requires a statement in the Optional Checklist Requirements (OCR). Recommend this in OCR: “Consider eliminating this provision if there are no cracks, if the cracks are not detrimental to polishing or if the cracks will not be repaired.”</p>	Agreed, done
27.	Suprenant	Page 8 No	“Quality Assurance: Duties and Responsibilities of Owner’s Testing Agency”	Agreed, done

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		number	(1) This should be numbered and I believe it to be: <b>1.6.1.</b> (2) I do not believe that “Responsibilities” should be capitalized, please change. (3) The words “Testing Agency” are capitalized in this provision but is not in 1.6.1.1, 1.6.1.1(a), 1.6.1.1(b), 1.6.1.1(c), 1.6.1.2, 1.6.1.3, 1.7.1.3, 1.7.1.4, 3.1.1.1(e), and 3.1.1.1(f). Determine what to use for consistency.	
28.	Ermish	Page 9 Section 1.6	Testing And Inspection: “Perform a test to measure the Dynamic Coefficient of Friction (DCOF) of the finished surface per the American National Standard ANSI A 326.3. The test will follow the A 326.3 criteria for selecting test locations and sample size.	Tabled as new business at 03-31-20 virtual meeting.
29.	Suprenant	Page 8 1.6.1.1	<p><b>1.6.1.1</b> The Owner’s testing agency will provide the services when the polished Work exceeds 5000 ft<sup>2</sup>. Provide services specified in 1.6.2.1(a) through 1.6.2.1(c).</p> <p><b>Optional:</b> Indicate who shall perform testing services if under 5000 ft<sup>2</sup>.</p> <p>(1) Consider making the requirement Mandatory or change the Optional to: “Indicate who shall perform testing services if under 5000 ft<sup>2</sup> otherwise no testing services will be performed.”</p> <p>(2) Change the numbers 1.6.2.1(a) and 1.6.2.1(c) to 1.6.1.1(a) and 1.6.1.1(c).</p>	Agreed, done
30.	Suprenant	Page 9 1.6.1.2(a)	<p><b>1.6.1.2(a)</b> Test specular gloss, Distinctness of Image (DOI) and haze for compliance with Contract Documents at least two weeks prior to Owner’s possession.</p> <p>Somewhere in this document we must require the testing and test equipment to comply with ASTM.</p> <p>Recommend this be reworded to <b>1.6.1.2(a)</b> Test specular gloss in accordance with ASTM D523, Distinctness of Image (DOI) in accordance with ASTM D5767 and haze in accordance with ASTM D4039 for compliance with Contract Documents at least</p>	Agreed, done

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			two weeks prior to Owner's possession.	
31.	Suprenant	Page 9 1.6.1.3	<b>"1.6.1.3 Testing frequency--</b> If required by Owner or Architect/Engineer, Owner's testing agency will perform testing frequency given in 1.6.2.3(a) 1.6.2.3(b)". Numbers are incorrect, and there are three: (a), (b) and (c). Change numbers to: "1.6.1.3(a), 1.6.1.3(b) and 1.6.1.3(c)."	Agreed, done
32.	Suprenant	Page 9 1.6.1.3(a) 1.6.1.3(b) 1.6.1.3(c)	These words are used in the three sections: "The tests shall not be concentrated but shall be located in random and evenly distributed locations of the floor area." I do not believe that the words "in random" are correct. And I am not sure that the tests can be "evenly distributed" if they are chosen "in random". I looked up the wording in ASTM for floor moisture testing and recommend the following change: "The tests shall be selected randomly in each test area and the test areas shall be distributed across the entire polished floor."	Agreed, done
33.	Suprenant	Page 9 1.6.1.3(a) 1.6.1.3(b) 1.6.1.3(c)	<b>1.6.1.3(a)</b> Specular gloss, Distinctness of Image (DOI) and haze shall be measured at three locations for areas up to 1000 ft <sup>2</sup> with one additional test for each 1000 ft <sup>2</sup> or fraction thereof. The tests shall not be concentrated but shall be located in random and evenly distributed locations of the floor area.  1.6.1.3(b) DOI and 1.6.1.3(c) Haze repeat what is in 1.6.1.3(a). Either delete 1.6.1.3(b) and 1.6.1.3(c) or remove DOI and Haze from 1.6.1.3(a).	Agreed, done
34.	Suprenant	Page 10 1.7.1.5	<b>"1.7.1.5</b> Submit information documenting compliance of materials with referenced standards and test data on concrete mixture." Although there are some polishers who also perform concrete placement/finishing services, the majority do not. The polishers addressed in this Specification should not have to provide "test data on the concrete mixture". Recommend	Agreed, done

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			changing to: <b>“1.7.1.5</b> Submit information documenting compliance of materials with contract requirements”.	
35.	Suprenant	Page 10 1.8.1	Reconcile the duplication of 1.5.5 Installer qualifications with 1.8.1 Polisher qualifications.	Agreed. Deleted all in 1.8.1 with exception to a reference back to 1.5. Voted on at 03-31-20 virtual Meeting.
36.	Suprenant	Page 10 1.8.2	<p><b>“1.8.2 Preconstruction conference</b>—Prior to placing concrete for areas specified to have a polished slab finish attend a preconstruction conference with Architect/Engineer, Contractor, Owner or Owner’s representative and any other interested parties to review delivery, installation, and acceptance procedures for concrete slabs to be polished.” This Specification is to the polishing contractor and I have three concerns with this item: (1) “prior to placing concrete” implies that the polishing contractor will be doing the concrete work which is unlikely. It also implies that the polishing contractor will be chosen prior to concrete placement, which may not be true, and it also does not make sense if this Specification is used to polish concrete that is 5 years old. (2) We can’t require the A/E or Owner to do anything in the Specification to the Contractor, so they may or may not attend. We can require the Contractor, as in 1.8.2.1 to give notification to the A/E and Owner in the hope that they will attend. (3) The words “delivery” and “installation” sound as if we are talking about the concrete contractor not the polishing contractor.</p> <p>ACI 301-XX, also out for public discussion uses this: “If specified, schedule and attend preconstruction conference</p>	Agreed, done



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			with Architect/Engineer, Owner, and/or Owner’s Representative to review project requirements, acceptance criteria, and responsibilities.” And this for Optional: “Specify if a preconstruction conference is required, and if so, who should be notified and length of notice required before conference.” Recommend changing this paragraph and Optional to match ACI 301-XX.	
37.	Suprenant	Page 10 1.8.3	<p>“<b>1.8.3 Field Mockup</b>-- Before performing Work of this Section, provide following field mock-up to verify selections made under submittals and to demonstrate aesthetic effects of polishing. Approval does not constitute approval of deviations from Contract Documents, unless Architect/Engineer specifically approves deviations in writing.”</p> <p>ACI does not use the word “following” in these cases but refers to the numbers. Recommend this:  <b>“1.8.3 Field Mockup</b>-- Before performing Work of this Section, provide field mock-up to verify selections made under submittals and to demonstrate aesthetic effects of polishing in accordance with 1.8.3.1 through 1.8.3.7. Approval does not constitute approval of deviations from Contract Documents, unless Architect/Engineer specifically approves deviations in writing.”</p>	Agreed, done
38.	Suprenant	Page 11 1.8.3.1	<p>“<b>1.8.3.1</b> Construct field mockups using same procedures, equipment, and materials that will be used for production of polished concrete. Accepted field mockup will serve as a reference to which polished concrete will be compared for periodic and final acceptance. Construct field mockups at an acceptable location on site. Provide a simulated repair to demonstrate acceptable procedures. Repair procedures will provide an acceptable color and texture match. Protect from physical damage and retain mockups until final acceptance of</p>	Agreed, added language recommended below from ACI 301 reflected in document as 1.9.3 Periodic Acceptance and 1.9.3.1 (a) and (b). Voted on at 03-31-20 virtual meeting.

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			<p>polished concrete.”</p> <p>Great, matches ACI 301-XX for architectural concrete. However, this paragraph uses the word “periodic” acceptance which is not defined in ACI 310. Periodic is not used anywhere else in the document. If we want periodic acceptance, which we probably do, we need to add the two sections shown below that are in ACI 301 on periodic acceptance modified for polished concrete instead of architectural concrete. This should probably be added under section 1.9 Acceptance of polished slab finish.</p> <p><b>6.1.4.5 Periodic acceptance</b>  <b>6.1.4.5(a)</b> Architect/Engineer will periodically observe completed portions of architectural concrete for conformance with accepted field mockup. The frequency of periodic acceptance and acceptance criteria will be established at preconstruction conference.  <b>6.1.4.5(b)</b> Architectural concrete declared unacceptable during periodic observation shall be repaired or replaced. Submit a revised method of producing acceptable concrete before proceeding with additional architectural concrete construction.</p>	
39.	Ermish	Page 12 1.9 Acceptance	<p>Acceptance of Polished Slab Finish: In areas intended to be walked on wet, the measured wet DCOF shall be 0.42 or greater. For areas intended to be walked on dry, the measured dry DCOF shall be 0.42 or greater.</p> <p>If it is uncertain whether an area is intended to be walked on dry, the A 326.3 wet test method and DCOF threshold shall be used.</p>	Tabled as new business at 03-31-20 virtual meeting.
40.	Suprenant	Page 12 1.10.1	<p><b>1.10.1</b>  1.10.1 Protect completed polished concrete slab finish from damage until Substantial Completion. Protection shall include</p>	Agreed, done

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			<p>the following:</p> <p>There are two line items for 1.10.1. Delete first line item.</p>	
41.	Suprenant	Page 12 1.10.1.1 to 1.10.1.11	These items are all double numbered; one in bold and one not in bold. Delete the second set of numbers that are not in bold.	Agreed, done
42.	Suprenant	Page 13 1.10.1.12 to 1.10.1.14	These items are all double numbered; one in bold and one not in bold. Delete the second set of numbers that are not in bold.	Agreed, done
43.	Suprenant	Page 13 2.1.2.3	<p><b>“2.1.2.3 Spall repair--</b> Unless otherwise specified, repair materials shall conform to 2.1.2.3(a) and 2.1.2.3(c).”</p> <p>There are three items; (a), (b) and (c). Should not satisfy only (a) and (c). Change to “2.1.2.3(a) through 2.1.2.3(c)”.</p>	Agreed, done
44.	Suprenant	Page 14 2.1.6.1	<p><b>“2.1.6.1</b> Unless otherwise specified, joint filler shall conform to 2.1.6.1(a) through 2.1.6.1(c)”</p> <p>There are items (a) through (e) in 2.1.6.1. Change to “2.1.6.1(a) through 2.1.6.1(e).” Add period at end of sentence.</p>	Kept as (a) through (c) as a result of next comment/revision.
45.	Suprenant	Page 15 2.1.6.1(c) 2.1.6.1(d) 2.1.6.1(e)	<p><b>“2.1.6.1(c)</b> 2.1.6.1(b1) Pedestrian traffic—minimum Shore A Hardness of 60 when measured in accordance with ASTM D2240 and an elongation above 25 percent when measured in accordance with ASTM D638.”</p> <p><b>“2.1.6.1(d)</b> 2.1.6.1(b2) Hard wheeled traffic-- minimum Shore A Hardness of 80 when measured in accordance with ASTM D2240 and an elongation above 25 percent when measured in</p>	Agreed, done

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			<p>accordance with ASTM D638.”</p> <p>These are double numbered. It appears that the committee wants to number these (b1) and (b2), if so then remove the bold numbers. And in that case, ignore comment #36.</p> <p>However, 2.1.6.1(e) then needs to be changed to 2.1.6.1(c).</p>	
46.	Suprenant	Page 15 2.2.1.2(b)	2.2.1.2(b) needs to be indented to match 2.2.1.2(a).	Agreed, done
47.	Suprenant	Page 16 2.2.6.1	<p><b>“2.2.6.1</b> An abrasive pad, resembling a typical floor maintenance burnishing pad that has the capability of refining the concrete surface on a microscopic level that can contain industrial grade diamonds. Pads shall be suitable for use during the installation and/or maintenance of polished concrete flooring, and/or the restoration of previously installed polished concrete slab finish.”</p> <p>The first sentence is the definition of abrasive impregnated pad found in 1.3 and is not needed here. Delete the first sentence and change second sentence to: “Abrasive impregnated pads shall be suitable for use during the installation and/or maintenance of polished concrete flooring, and/or the restoration of previously installed polished concrete slab finish.”</p>	Agreed, done
48.	Suprenant	Page 16 3.1.1	<p><b>3.1.1</b> Acceptance of surfaces and conditions-- Delete hyphens at end of sentence.</p>	Agreed, done
49.	Suprenant	Page 17 3.1.1.(h)	<p><b>“3.1.1.1(h)</b> Notify Contractor in writing of any conditions prior to polishing that would adversely affect the appearance of polished concrete slab.”</p> <p>This is not consistent with 3.1.1(i) that requires Work not to</p>	Agreed, done

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			begin until approved by A/E or Owner’s rep in writing. Change this to notify A/E or Owner’s rep as follows: “ <b>3.1.1.1(h)</b> Notify Architect/Engineer or Owner’s representative or both in writing of any conditions prior to polishing that would adversely affect the appearance of polished concrete slab.”	
50.	Suprenant	Page 17 3.1.1	<b>3.1.1 Examination</b> Item 3.1 is already titled “Examination”, therefore this would be a duplicate. Also, this should not be bold and retitle the number. Change 3.1.1 to “3.1.2 Site conditions”. And then to match the style in 3.1.1 use 3.1.2(a), 3.1.2(b), 3.1.2(c), 3.1.2(d), 3.1.2(e) and 3.1.2(f) for the items below 3.1.2.	Agreed, done
51.	Suprenant	Page 17 3.1.1	“Mandatory: Assign responsibility for providing these site conditions.” Since these responsibilities are in the Specification to the Contractor, these provisions are assigned to the Contractor. We can’t ask the specifier to assign these responsibilities to the GC, CM or polishing contractor. That assignment will be done based on contract. These items need to be done and the polishing contractor will need to exclude these items from his bid and contract. Delete sentence.	Agreed, done
52.	Jim Cornell	3.1.1 A	Editorial item last words of section should read ‘in accordance to Contract Documents’ rather than ‘in compliance with the Project Specifications’ Two reasons it is better spec wording to use in accordance rather than in compliance. Second issue is to prepare the scope shown on the project drawings as well, so rather than just refer to the spec’s refer to the specs and drawings buy using Contract Documents.	Agreed, done
53.	Suprenant	Page 17 3.1.1 D	“D. Do not begin Work until the slab is at a minimum temperature of 50F and [provisions are in place to maintain the slab temperature at 50F].” Remove brackets [ ] from sentence.	Agreed, done

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54.	Suprenant	Page 17 3.1.1.2	<b>3.1.1.2</b> This number has not words. Delete number.	Agreed, done
55.	Suprenant	Page 17 3.1.2	<b>3.1.2</b> Surface Preparation Based on comment #42, renumber as 3.1.3 and the other items underneath it as 3.1.3.1, 3.1.3.2 and 3.1.3.3.	Agreed, done
56.	Suprenant	Page 18 3.1.3	<b>3.1.3</b> Test requirements prior to polishing Work Based on previous recommendations, change this to 3.1.4 and the item underneath it to 3.1.4.1.	Agreed, done
57.	Suprenant	Page 18 3.1.3.1	<b>"3.1.3.1</b> Confirm Mohs' Hardness measured on slab surface is >4."  Symbols are appropriate for a specification change too: <b>"3.1.3.1</b> Confirm Mohs' Hardness measured on slab surface is greater than 4."	Agreed, done
58.	Suprenant	Page 18 3.2.1	<b>"3.2.1</b> General—Work shall meet the requirements as specified in 3.2.2 through 3.3.6."  There is no item 3.3.6 in this document. I believe that 3.3.6 should be 3.2.7. Please confirm.	Agreed, done
59.	Suprenant	Page 18 3.2.2	<b>"3.2.2</b> Color- Provide added color system to the polished slab finish for each portion of the Work shall be as indicated in Contract Documents."  Remove the words "shall be" from the sentence.	Agreed, done
60.	Suprenant	Page 18 3.2.3	<b>"3.2.3</b> Aggregate exposure— Provide aggregate exposure class of the polished slab finish for each portion of the Work as indicated in Contract Documents."  A table title is at the top, the first letter of the title is capitalized,	Agreed, done

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			<p>the remaining letters are lower case, and the table caption is boldfaced. Table numbers are the same as the provision or section number. If more than one table is in a provision or section, add a letter suffix to the table number.</p>	
61.	Suprenant	Page 18 3.2.3.1	<p><b>“3.2.3.1</b> The class of aggregate exposure shall meet the requirements of Table 3.1 and in conformance with approved mockup(s).”</p> <p>The Technical Committee Manual (TCM) indicates that the “table number is the same as the provision or section number”. I believe that makes this Table 3.2.3.1. In addition, TCM states: “A table title is at the top, the first letter of the title is capitalized, the remaining letters are lower case, and the table caption is boldfaced.” This would make the title: <b>Table 3.2.3.1 Aggregate exposure for each class</b></p>	Agreed, done
62.	Suprenant	Page 18 3.2.3	<p>“Mandatory: Utilize Table 3.3.1.1. to specify Class A, B or C aggregate exposure of polished slab finish for each portion of Work.</p> <p>Change table number and rewrite sentence: “Specify Class A, B or C for aggregate exposure of polished slab finish in accordance with Table 3.2.3.1 for each portion of Work.”</p>	Agreed, done
63.	Suprenant	Page 18 3.2.4	<p><b>“3.2.4</b> Appearance-The appearance of the polished slab finish for each portion of the Work as determined by the level of Distinctness of Image (DOI) gloss shall be as indicated in Contract Documents.”</p> <p>This should be parallel structure to match 3.2.2 Color and 3.2.3 Aggregate exposure.</p> <p>Recommend: “Provide the level of Distinctness of Image (DOI) gloss of the polished slab finish for each portion of the Work as indicated in Contract Documents.”</p>	Agreed, done

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64.	Suprenant	Page 18 3.2.4.1	<p><b>“3.2.4.1</b> The specified DOI value shall be determined from the recommended values found in Table 3.2 and as demonstrated in the approved mockup.”</p> <p>Need to get rid of “recommended” and the word “value”, and also should make this parallel to the aggregate exposure requirement.</p> <p>Consider: <b>3.2.4.1</b> The level of DOI shall meet the requirements of Table 3.2.4.1 and in conformance with approved mockup(s).</p>	Agreed, done
65.	Suprenant	Page 3.2.4.1	Table title should be: <b>Table 3.2.4.1 Appearance levels for distinctness of image (DOI)</b>	Agreed, done
66.	Suprenant	Page 18 3.2.4	<p>“Mandatory: Specify level 1, 2, 3 or 4 DOI gloss of polished slab finish for each portion of Work. Choosing level 4 is likely to require grouting of the surface which increases the cost of the polished Work.”</p> <p>For consistency with the mandatory requirement of specifying aggregate exposure and referring to the Table, consider: “Specify level 1, 2, 3 or 4 DOI gloss of polished slab finish in accordance with Table 3.2.3.1 for each portion of Work.”</p>	Agreed, done
67.	Suprenant	Page 3.2.4.1	<p>Mandatory: If required, specifier shall determine the DOI = values that are appropriate for the desired appearance.</p> <p>Delete this; 3.2.4 already has a mandatory Specifier requirement to select the appropriate DOI level.</p>	Agreed, done
68.	Suprenant	Page 19 Table Heading	<p><b>“3.2.5</b> Specular gloss--The specular gloss of the polished slab finish for each portion of Work measured prior to the application of a protectant shall be as indicated in Contract Documents and as demonstrated in the approved mockup.”</p> <p>Change for consistency with document: <b>“3.2.5</b> Specular gloss—If required, provide the specular gloss of the polished slab finish for each portion of Work as indicated in Contract</p>	Agreed, done



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			Documents.”	
69.	Suprenant	Page 19 3.2.5.1	<p><b>3.2.5.1 This is blank, but for consistency and because of changes to 3.2.5 consider:</b></p> <p><b>3.2.5.1</b> The specular gloss shall be measured prior to the application of a protectant and in conformance with approved mockup(s).</p>	Agreed, done
70.	Suprenant	Page 19 3.2.6	<p><b>3.2.6</b> Haze—Unless otherwise specified, the haze index shall be less than 12 and as demonstrated in the approved mockup.</p> <p>Change for consistency: <b>3.2.6</b> Haze—Unless otherwise specified, the haze index shall be less than 12 and in conformance with approved mockup (s).</p>	Agreed, done
71.	Suprenant	Page 19 3.2.7.4	<p><b>3.2.7.4</b> DOI—minimum 40</p> <p>Delete; this is not necessary as 3.2.7.3 Appearance specifies Level 3.</p>	Agreed, done
72.	Suprenant	Page 19 3.2.7.5	<p><b>3.2.7.5</b> Specular gloss—minimum 50.</p> <p>Delete; a DOI level is specified and if there is nothing specified then the DOI should cover the gloss.</p>	Agreed, done
73.	Suprenant	Page 19 3.2.7.6	Renumber to 3.2.7.4 based on previous comments.	Agreed, done
74.	Suprenant	Page 19 3.3.1	<p><b>“3.3.1</b> Color--The added color of the polished slab finish for each portion of the Work shall be as indicated in Contract Documents.”</p> <p>Change for consistency: <b>“3.3.1</b> Color—If required, provide the color of the polished slab finish for each portion of the Work as indicated in Contract Documents.”</p>	Agreed, done

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No.	Public Commenter Name	Provision No.	Public Comment	Committee Response
75.	Suprenant	Page 20 3.3.2.1	<p><b>3.3.2.1</b> Unless otherwise specified, the color application shall be installed in accordance with 3.4.2.1(a) through 3.4.2.1(d).</p> <p>The numbers are not correct; consider: <b>3.3.2.1</b> Unless otherwise specified, the color application shall be installed in accordance with 3.3.2.1(a) through 3.3.2.1(d).</p>	Agreed, done
76.	Suprenant	Page 20 3.4.2.3 3.4.2.2	<p><b>3.4.2.3</b> Continue until surface defect repairs match the repaired area of the approved mockup.</p> <p><b>3.4.2.2</b> Fill surface defects with approved repair material to eliminate pitting in finished Work.</p> <p>Item 3.4.2.3 begs the question of “Continue what?” It appears that 3.4.2.2 and 3.4.2.3 should be combined; consider: <b>3.4.2.2</b> Fill surface defects with approved repair material to eliminate pitting in finished Work in conformance with approved mockup(s). Then delete 3.4.2.3.</p>	Agreed, done
77.	Suprenant	Page 21 3.4.6.1	<p><b>3.4.6.1</b> If specified, apply approved surface treatment product in accordance with manufacturer’s published instructions.</p> <p>Because of the words, “If specified”, this needs a Mandatory or Optional Checklist Requirement. Consider: “Optional. Specify if a surface treatment is required.”</p>	Agreed, done
78.	Suprenant	Page 22 3.4.7.2	<p><b>3.4.7.2</b> Continue burnishing operations to achieve specified specular Gloss and DOI levels.</p>	Agreed, done

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No.	Public Commenter Name	Provision No.	Public Comment	Committee Response
			Do not capitalize "Gloss".	
79.	Suprenant	Page 22 3.5.1.1	<p><b>3.5.1.1</b> Repair areas of Work that are not accepted by the Architect/Engineer based on the requirements in 21.2.</p> <p>There is no 21.2. Consider: <b>3.5.1.1</b> Repair areas of Work that are not accepted by the Architect/Engineer in accordance with the requirements in 2.1.2.</p>	Agreed, done
80.	Suprenant	Page 22 3.5.1.2	<p><b>3.5.1.2</b> Repair to use products and equipment consistent with this Specification, following manufacturer's instructions, to match the approved mockup.</p> <p>Consider: <b>3.5.1.2</b> Use repair products and equipment as indicated in the Contract Documents tin accordance with the manufacturer's instructions to match approved mockup(s).</p>	Agreed, done
81.	Weise	2.1.3.1	Remove the word "silicate" from 2.1.3.1 (change agreed to at previous meeting).	Agreed, by vote at virtual meeting 03-31-20
82.	Barnes	General	Replaced the words "diamond abrasives" with the words "bonded abrasives" in four locations as a change previously agreed to and thought to have occurred but apparently overlooked in editing.	Agreed, by vote at virtual meeting 03-31-20