

Document: Strengthening of Concrete Structures with Externally Bonded Fiber-Reinforced Polymer (FRP) Materials using the Wet Layup Method— Specification

No.	Public Commenter Name	Pg #	Line #	Item #	Public Comment	Committee Response
1.	David P. Gustafson	10	2		In Line 2, is the “manufacturer” the “FRP manufacturer”? If so, then revise Line 2: “ . . . with <u>FRP</u> manufacture’s recommendations”.	Revise as suggested
2.	David P. Gustafson	11	19		Start a new Line 20 with “ 3.3.5.5 Do not apply. . . “	Revise as suggested
3.	David P. Gustafson	12	16		Replace the term “Project Documents” with “Contract Documents”.	Revise as suggested
4.	David P. Gustafson	13	23		Replace “contractor” with “Contractor”	Revise as suggested
5.	David P. Gustafson	13	23-24		Revise Lines 23-24: “ . . . make witness panels <u>per in accordance with</u> ASTM D 7565 <u>for every day</u> of installation to verify . . . “	Revise as suggested
6.	David P. Gustafson	13	26		Replace “must” with “shall”.	Revise as suggested
7.	David P. Gustafson	13	31		Replace “15%” with “15 percent”.	Revise as suggested
8.	David P. Gustafson	13	8		Consider replacing “capacity” with “strength”.	No revision. Wording would be awkward with “strength” and “strengthened” in the sentence.
9.	David P. Gustafson	14	14		Replace “25%” with “25 percent”.	Revise as suggested
10.	David P. Gustafson	14	21		Consider replacing “design capacity” with “design strength”.	No revision. Capacity is the correct word.
11.	David P. Gustafson	14	8		Replace “90%” with “90 percent”.	Revise as suggested
12.	Gour Saha	4	18, 19		Please provide section reference of SI unit	Reference to 440.XM-21 added
13.	Gour Saha	6	24, 25		Why definition is different for “Submit” and “Submittal”. Both should be “.....for review and acceptance...”	No Revision – this wording is directly from TCM 2021
14.	David P. Gustafson	6	28		Consider replacing “yield” with “give”; or replace “yield” with “result in”. Let’s save “yield” for use in other situations, e.g., yield strength of steel reinforcement..	Change yield to “result in”
15.	David P. Gustafson	7	18,19		Consider deleting the article “the” in Line 18 and in Line 19.	Revise as suggested
16.	Gour Saha	7	23	1.6.1	In general “manual” words refer to big document. It leaves the expectation from Engineer/Architect that a big document will be submitted by the Contractor. Can you consider to change the Quality Control Manual to Quality Control Procedure.	No Revision – this is the wording used in the industry. Also, not sure how to define “big” - some manuals are over 100 pages.
17.	David P. Gustafson	8	18		Replace “contract documents” with “Contract Documents”.	Revise as suggested
18.	Gour saha	8	20	1.8.4.2	Please add “ or as specified in the contract documents” and	Revise as suggested
19.	David P. Gustafson	9	13		Replace “Drawings” with “drawings”.	Revise as suggested
20.	David P. Gustafson	9	8		The term ‘working drawings’ appears in Line 8. I believe this is the only occurrence of the term in the specification. Consider adding a definition of “working drawings” to Section 1.3— Definitions.	Delete the word working – no new definitions.

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21.	David P. Gustafson	17	----		In the cell for 3.5.1 and under “Notes to Specifier; in the second Line, replace “contractor” with “Contractor”.	Revise as suggested

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22.	Aaron Larosche John Lund				<p>ACI 563 committee approached the 440 committee in December 2021. ACI 563 would like to incorporate by reference the 440.X specification (see proposed language below). Clause 1.1.6 of the current 440.X document would not be required. Language proposed by Aaron Larosche for 563 document “Section XX(TBD) - Strengthening of Concrete Structures with Externally Bonded Fiber Reinforced Polymer (FRP) Materials using the Wet Layup Method (ACI 440.X). This Specification is incorporated by reference into this Standard and gives requirements for strengthening concrete structures using externally bonded fiber-reinforced polymer (FRP) materials using the wet layup method”</p>	Removed clause 1.1.6 from the document