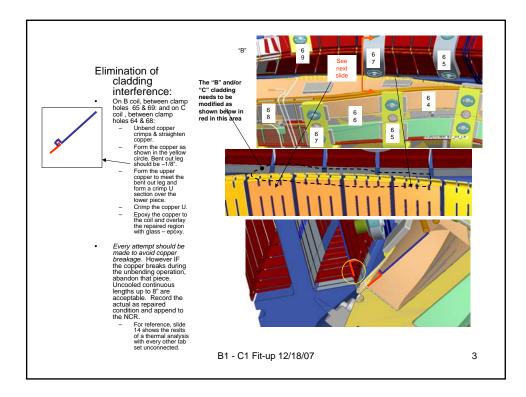
Review of "B1" to "C1" interface Response to NCR 3735 and Deviation Request to Address Remaining B-C Coil Interfaces

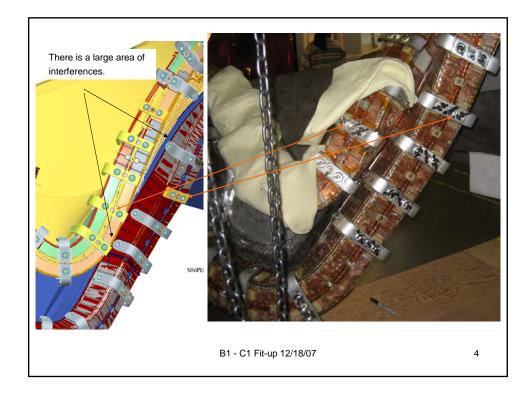
B1 - C1 Fit-up 12/18/07

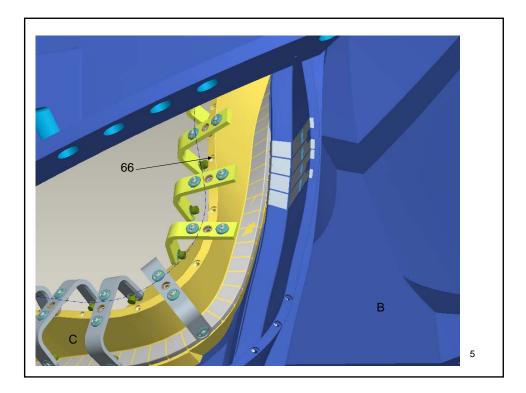
12/18/07

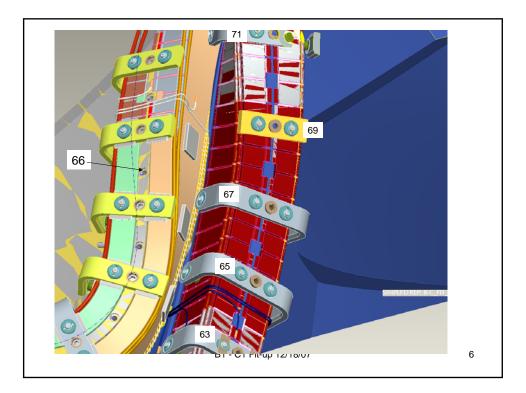
1

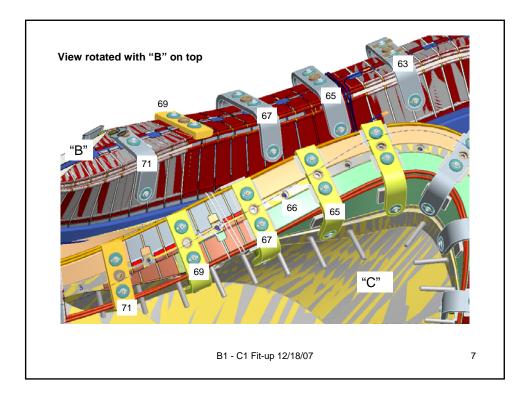
**Disposition to NCR 3735** Modify the copper cladding on B1 and C1 as shown on page 3. - The slides which follow this are given for reference. RFD for Other B/C Coils: Coils B5,B6, and C6 are not yet VPI'd. These should be "preemptively" modified in a similar manner, with the exception being that instead of a crimp connection flat overlapped solder connections will be used (since heating due to soldering can be tolerated in a non-impregnated coil). Grinding of all C and B coils will be necessary, similar to the B1 and C1 that is described in the PowerPoint slides attached. Use these as models. Refer to Slide 16. The other C and B coils can be ground to roughly the same profile as B1 and C1. This is not a highly stressed area (see slides), so grinding \_ is not critical. It is likely that this same copper cladding modification will be needed on coils B2, B3, B4, C2, C3, C4, and C5. B1 - C1 Fit-up 12/18/07 2

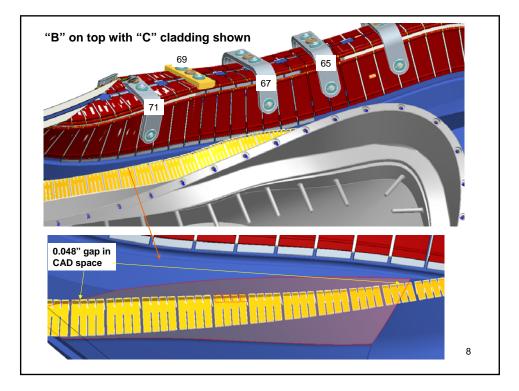


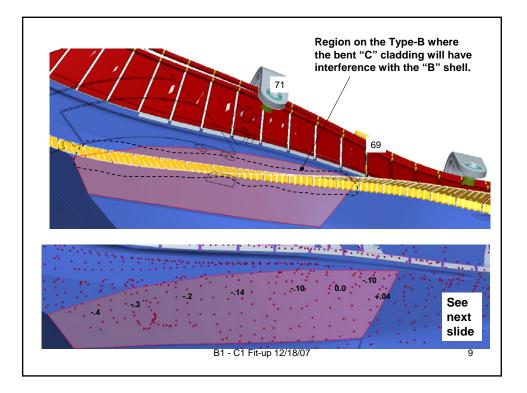


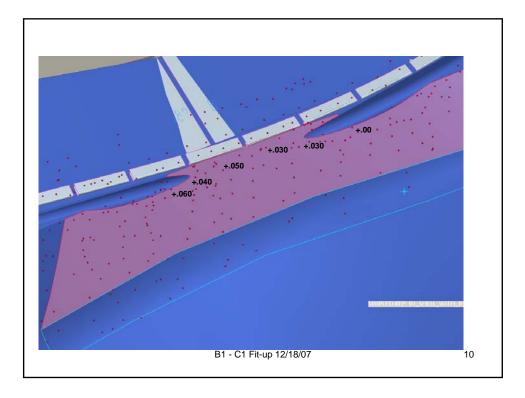


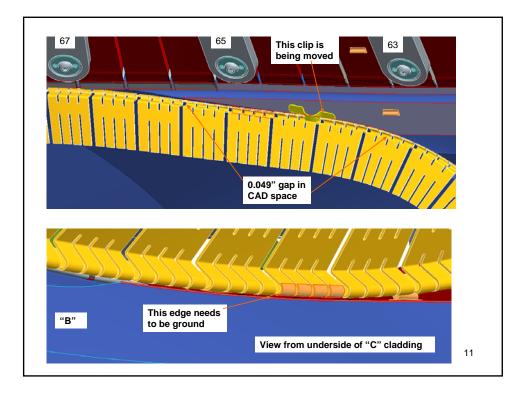


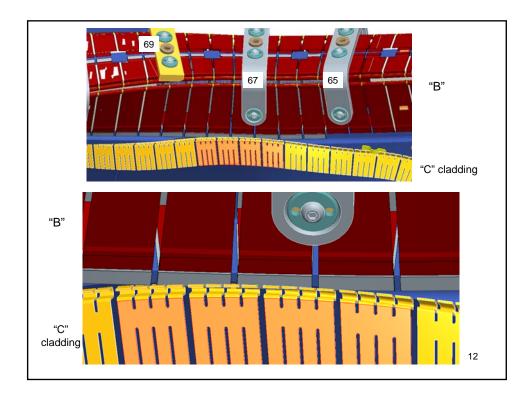


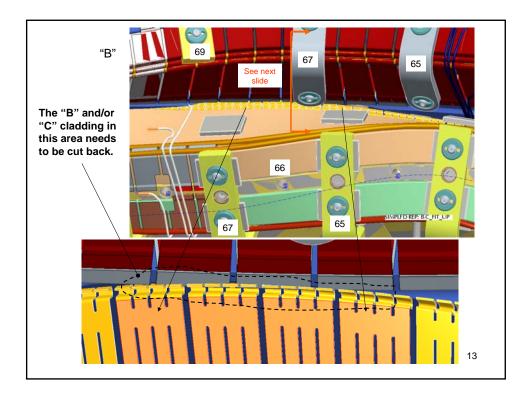


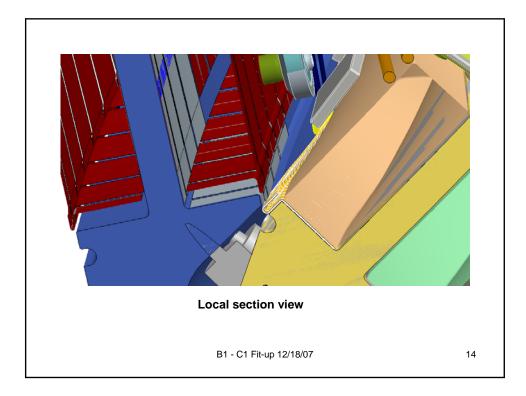












1	2	3	4 5	6 7 8 9 10 11 12	13 14
110,000		min	100 COLORADO		HH H
	х	Y	t coordinate system Z		
1 2 3 4 5 6	34.087 34.532 34.997 35.353 35.686 35.952	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603		
7 8 9 10 11 12	36.251 36.651 37.241 37.769 38.350 38.650	-21.049 -20.010 -18.809 -17.908 -16.817 -16.047	-32.331 -31.011 -29.617 -28.587 -27.066 -25.906		
13 14	39.070 39.163	-14.208 -13.659	-22.898 -22.105	B1 - C1 Fit-up 12/18/07	15

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			efault coordina		Curnt. Ground	Curnt	Additional	Added	
					Curnt Ground	Cumt	grinding	fractional	
I	FOR B1 AN	DCI						adadaa	
1			7	"B" surf to	Dist. from	"B" surf to	depth for	grinding	
	X	Y	Z	"B" surf to "C" cladding	Dist. from Met. Pts	"B" surf to "C" cladding	depth for	depth	
1	X 34.087	Y -27.853	-41.520	"B" surf to "C" cladding 0.046	Dist. from Met. Pts 0.649	"B" surf to "C" cladding 0.695	depth for	depth none	
1 2	X 34.087 34.532	Y -27.853 -26.814	-41.520 -39.870	"B" surf to "C" cladding 0.046 0.048	Dist. from Met. Pts 0.649 0.361	"B" surf to "C" cladding 0.695 0.407	depth for 1/4" gap	depth none none	)
1	X 34.087	Y -27.853 -26.814 -25.567	-41.520 -39.870 -38.164	"B" surf to "C" cladding 0.046	Dist. from Met. Pts 0.649	"B" surf to "C" cladding 0.695	depth for	depth none	)
1 2 3	X 34.087 34.532 34.997	Y -27.853 -26.814	-41.520 -39.870	"B" surf to "C" cladding 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092	"B" surf to "C" cladding 0.695 0.407 0.138	depth for 1/4" gap 0.112	depth none none 1/8	
1 2 3 4	X 34.087 34.532 34.997 35.353	Y -27.853 -26.814 -25.567 -24.380	-41.520 -39.870 -38.164 -36.598	"B" surf to "C" cladding 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162	"B" surf to "C" cladding 0.695 0.407 0.138 0.208	depth for 1/4" gap 0.112 0.042	depth none none 1/8 1/8	
1 2 3 4 5	X 34.087 34.532 34.997 35.353 35.686	Y -27.853 -26.814 -25.567 -24.380 -23.086	-41.520 -39.870 -38.164 -36.598 -34.925	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174	depth for 1/4" gap 0.112 0.042 0.076	depth none none 1/8 1/8 1/8	) ( Pts 3 thru 10
1 2 3 4 5 6	X 34.087 34.532 34.997 35.353 35.686 35.952	Y -27.853 -26.814 -25.567 -24.380 -23.086 -22.079	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140	depth for 1/4" gap 0.112 0.042 0.076 0.110	depth none 1/8 1/8 1/8 1/8 1/8	Pts 3 thru 10
1 2 3 4 5 6 7	X 34.087 34.532 34.997 35.353 35.686 35.952 36.251	Y -27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066	depth for 1/4" gap 0.112 0.042 0.076 0.110 0.184	depth none 1/8 1/8 1/8 1/8 1/8 3/16	Pts 3 thru 10
1 2 3 4 5 6 7 8	X 34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651	Y -27.853 -28.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032	depth for 1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218	depth none 1/8 1/8 1/8 1/8 1/8 3/16 1/4	Pts 3 thru 10
1 2 3 4 5 6 7 8 9	X 34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651 37.241	Y -27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055	depth for 1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218 0.195	depth none 1/8 1/8 1/8 1/8 3/16 1/4 1/4	Pts 3 thru 10
1 2 3 4 5 6 7 8 9 10	X 34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651 37.241 37.769	Y -27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809 -17.908	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617 -28.587	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009 0.048	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055 0.094	depth for 1/4" gap 0.112 0.042 0.042 0.076 0.110 0.184 0.218 0.195 0.156	depth none 1/8 1/8 1/8 1/8 3/16 1/4 1/4 1/4 3/16	Pts 3 thru 10
1 2 3 4 5 6 7 8 9 10 11	X 34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651 37.241 37.769 38.350	Y -27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809 -17.908 -16.817	-41,520 -39,870 -38,164 -36,598 -34,925 -33,603 -32,331 -31,011 -29,617 -28,587 -27,066	"B" surf to "C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Dist. from Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009 0.048 0.022	"B" surf to "C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055 0.094 0.068	depth for 1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218 0.195 0.156 0.182	depth none 1/8 1/8 1/8 1/8 3/16 1/4 1/4 3/16 3/16	Pts 3 thru 10

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	FOR B1 AN		lefault coordin		Curnt. Ground	Curnt	Additional grinding	Added fractional		
	FURDIAN	101			Dist. from		grinaing			
				"B" surf to		"B" surf to	depth for			
	Х	Y	7	"B" surf to "C" cladding		"B" surf to "C" cladding	depth for 1/4" gap	grinding		
1	X 34.087	Y -27.853	Z -41.520	"C" cladding	Met. Pts	"C" cladding		grinding depth		
1	X 34.087 34.532	Y -27.853 -26.814	Z -41.520 -39.870					grinding		
2	34.087 34.532	-27.853 -26.814	-41.520 -39.870	"C" cladding 0.046 0.046	Met. Pts 0.649 0.361	"C" cladding 0.695 0.407	1/4" gap	grinding depth none		
	34.087 34.532 34.997	-27.853 -26.814 -25.567	-41.520 -39.870 -38.164	"C" cladding 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092	"C" cladding 0.695 0.407 0.138	1/4" gap 0.112	grinding depth none none 1/8		
2	34.087 34.532	-27.853 -26.814 -25.567 -24.380	-41.520 -39.870 -38.164 -36.598	"C" cladding 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162	"C" cladding 0.695 0.407 0.138 0.208	1/4" gap 0.112 0.042	grinding depth none none 1/8 1/8		
2 3 4	34.087 34.532 34.997 35.353	-27.853 -26.814 -25.567	-41.520 -39.870 -38.164	"C" cladding 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092	"C" cladding 0.695 0.407 0.138 0.208 0.174	1/4" gap 0.112	grinding depth none none 1/8		
2 3 4 5	34.087 34.532 34.997 35.353 35.686	-27.853 -26.814 -25.567 -24.380 -23.086	-41.520 -39.870 -38.164 -36.598 -34.925	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128	"C" cladding 0.695 0.407 0.138 0.208	1/4" gap 0.112 0.042 0.076	grinding depth none 1/8 1/8 1/8		
2 3 4 5 6	34.087 34.532 34.997 35.353 35.686 35.952	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140	1/4" gap 0.112 0.042 0.076 0.110	grinding depth none 1/8 1/8 1/8 1/8 1/8		
2 3 4 5 6 7	34.087 34.532 34.997 35.353 35.686 35.952 36.251	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066	1/4" gap 0.112 0.042 0.076 0.110 0.184	grinding depth none 1/8 1/8 1/8 1/8 1/8 1/8 3/16		
2 3 4 5 6 7 8	34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651 37.241	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055	1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218 0.195	grinding depth none 1/8 1/8 1/8 1/8 1/8 3/16 1/4	ì	
2 3 4 5 6 7 8 9	34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809 -17.908	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617 -28.587	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009 0.048	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055 0.094	1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218	grinding depth none 1/8 1/8 1/8 1/8 1/8 3/16 1/4 1/4	)	
2 3 4 5 6 7 8 9 10 11	34.087 34.532 34.997 35.353 35.686 35.952 36.651 36.651 37.241 37.769 38.350	-27 853 -26 814 -25 567 -24 380 -23 086 -22 079 -21 049 -20.010 -18.809 -17 908 -16.817	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617 -28.587 -27.066	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009 0.048 0.022	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055 0.094 0.068	1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218 0.195 0.158 0.182	grinding depth none 1/8 1/8 1/8 1/8 3/16 1/4 1/4 3/16 3/16	Pts 10 thru	14
2 3 4 5 6 7 8 9 10	34.087 34.532 34.997 35.353 35.686 35.952 36.251 36.651 37.241 37.769	-27.853 -26.814 -25.567 -24.380 -23.086 -22.079 -21.049 -20.010 -18.809 -17.908	-41.520 -39.870 -38.164 -36.598 -34.925 -33.603 -32.331 -31.011 -29.617 -28.587	"C" cladding 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046 0.046	Met. Pts 0.649 0.361 0.092 0.162 0.128 0.094 0.020 -0.014 0.009 0.048	"C" cladding 0.695 0.407 0.138 0.208 0.174 0.140 0.066 0.032 0.055 0.094	1/4" gap 0.112 0.042 0.076 0.110 0.184 0.218 0.195 0.156	grinding depth none 1/8 1/8 1/8 1/8 3/16 1/4 1/4 3/16	Pts 10 thru	ı 14

