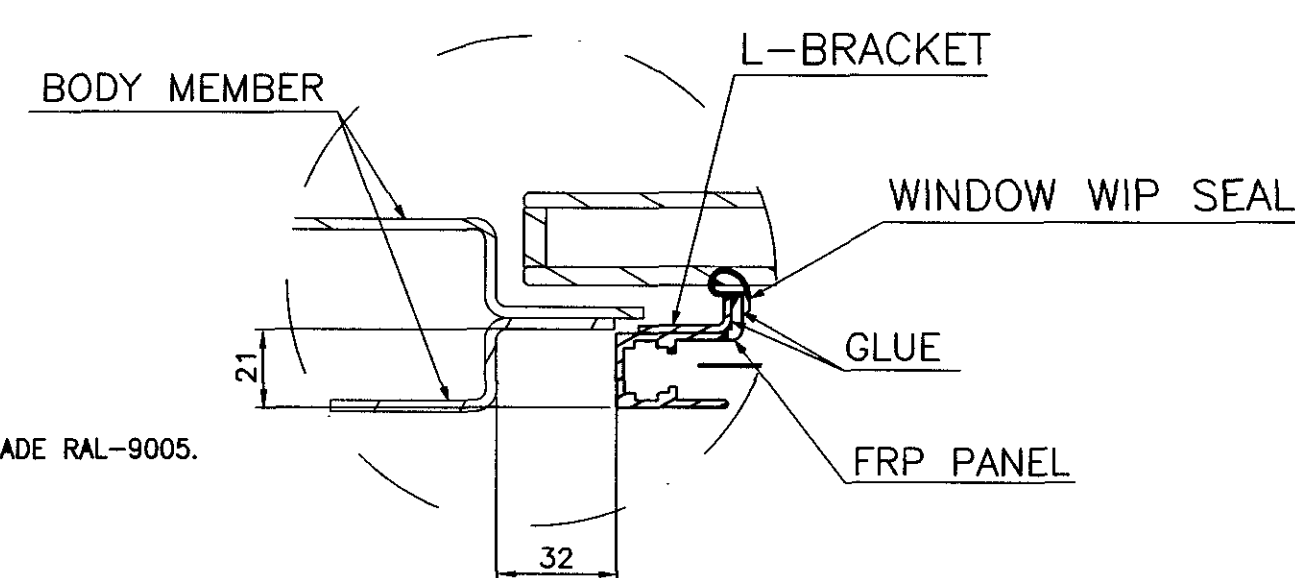
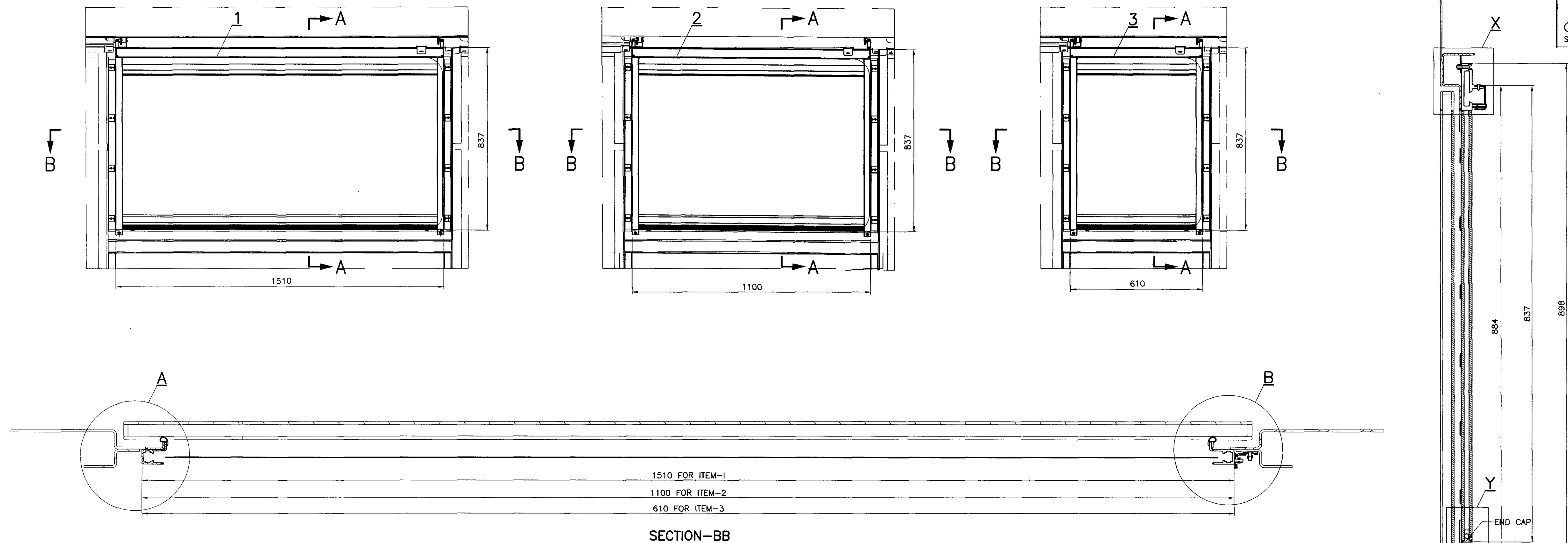
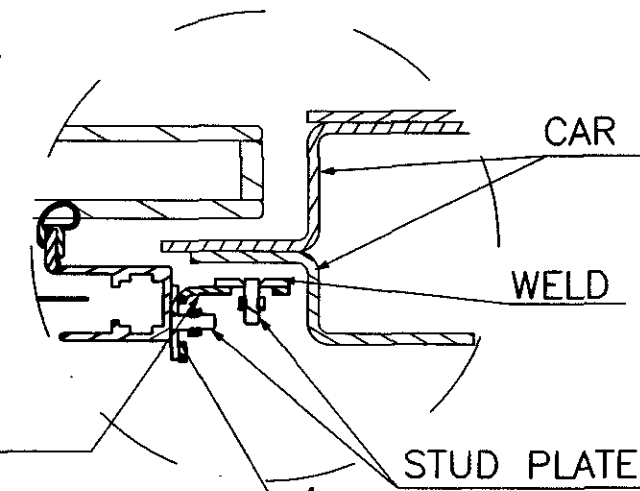


▽ ROUGH MACHINED	① ROUGH CLEANED	ALTERATIONS
▽▽ FINISH MACHINED		① 11/2022
▽▽▽ FINE FINISH MACHINED		NOTE REVISED BY ADDING PROPERTIES OF FABRIC & VIEWS CORRECTED ACCORDINGLY.
		sd SSE/D AME/SME
		② 12/2022
		NOTE 9 REVISED.
		SSE/D AME/SME

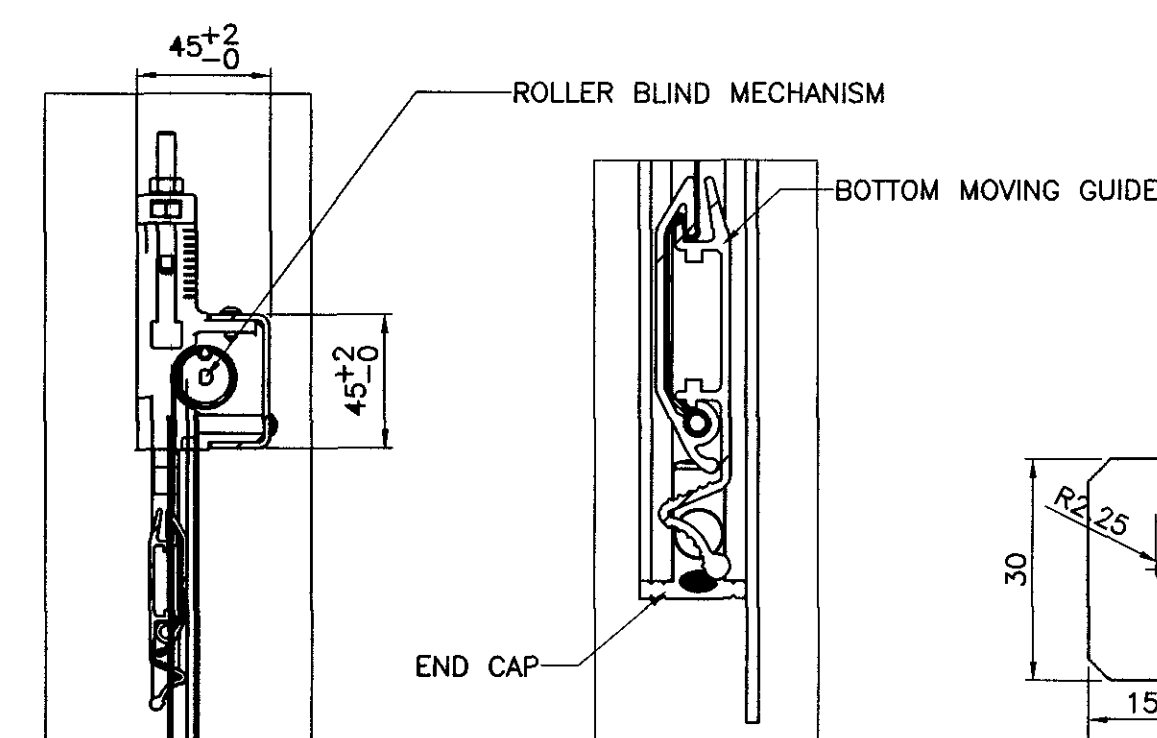


DETAIL AT A



DETAIL AT B

BRACKET FOR BLIND EXTRUSION



DETAIL AT X

DETAIL AT Y

SECTION-AA

CHAMFER 3x3

NOTE:

- ROLLER BLIND FRAME AND BOTTOM MOVING GUIDE SHALL BE POWDER COATED TO ICF/MD/SPEC-091 TO COLOUR SHADE RAL-9005.
- FOR UNTOLERANCED DIMENSIONS REFER DRG. No. ICF/STD-9-0-001
- ROLLER BLIND ASSEMBLY SHALL BE CONCEALED TYPE AND M/s. HAPPICH MAKE OR ANY PROVEN MAKE SHALL BE USED.
- THE FABRIC SHALL BE FIRE RETARDANT.
- THE FABRIC COLOUR SHALL BE LIGHT GREY.
- ROLLER BLIND ASSEMBLY SHALL BE DESIGNED SO THAT IT CAN BE KEPT AT ANY DESIRED POSITION IN THE GUIDE.
- PROFILE OF BOTTOM MOVING GUIDE SHALL BE SIMILAR TO ONGOING TRAINSET PROJECTS.
- ITEMS- 4,5,6& 7(COL-II) SHALL BE SUPPLIED LOOSE AND SHALL BE USED WHILE ASSEMBLY STAGE.
- ROLLER BLINDS ARE REQUIRED TO MEET THE FOLLOWING REQUIREMENTS:

CONTROL THE LIGHT ENTERING THE ROOM
ATTRACTIVE DESIGN WITH PLEASANT LOOKS
FLEXIBILITY

DURABILITY

EASY TO OPERATE AND LOW MAINTENANCE.

OPENNESS OF THE FABRIC SHALL BE AROUND 5%. FINAL OPENNESS WILL BE DECIDED DURING DESIGN/ PROTOTYPE APPROVAL.

ROLLER BLIND FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:

TENSILE STRENGTH/ BREAKING STRNGTH SHALL BE MINIMUM OF (Warp/ Weft 150daN & 120daN) AS PER ISO:5081-1977/ ISO-1421-2016

ELONGATION AT BREAK SHALL BE MINIMUM OF (Warp/ Weft 4.0% & 5.4%) AS PER ISO:5081-1977/ ISO-1421-2016

TEAR STRENGTH SHALL BE MINIMUM OF (Warp/ Weft 8daN & 6daN) AS PER ISO: 4674-2013/EN1875.

- THE TENSION OF THE ROLLER MECHANISM SHOULD BE ADJUSTABLE. THE MANUFACTURER SHALL PROVIDE NECESSARY TOOLS TO ADJUST THE TENSION OF THE ROLLER MECHANISM

- THE END STOPS SHOULD BE MANUFACTURED WITH A GOOD QUALITY PLASTIC MATERIAL WITH STEEL REINFORCEMENT,

- THE OVERALL SIZE OF THE ENDCAPS OF THE ROLLER BLIND ASSEMBLY MUST NOT EXCEED THE SIZE INDICATED IN THE DRAWING.

- THE COMPLETE ASSEMBLY AND FITMENT ARRANGEMENT MUST ENSURE THAT THE EXPECTED ROUGH HANDLING DURING RUNNING OF THE COACH IN PASSENGER SERVICE IS WITHSTOOD. THE ASSEMBLY AND COMPONENTS MUST NOT BE FLIMSY OR SHABBY.

- THE ENDURANCE TEST IS TO BE CONDUCTED BY THE MANUFACTURER AT PROTOTYPE STAGE AND SUBMIT THE PERFORMANCE CERTIFICATE FOR THE SAME.

TYPE OF COACH	QUANTITY REQUIRED PER COACH		
	ROLLER BLIND SIZE (ITEM-1) 1510x834	ROLLER BLIND SIZE (ITEM-2) 1100x834	ROLLER BLIND SIZE (ITEM-3) 610x834
(889) TS/DTC	10	—	4
(890) TS/MC	14	2	1
(891) TS/TC	14	2	1
(892) TS/MC2	14	2	1
(893) TS/NDTC/EC	14	2	1
(894) TS/NDTC/EC2	14	2	1

16	WASHER FLAT	M4x 1x 0.8	7				S.S
16	HEX. NUT	M4x 3.2x 0.7	6				S.S
8	STUD PLATE	M4x 10x 1	5				S.S
8	BRACKET	2x 20x 30	4				S.S
—	ROLLER BLIND ARRGT.	610x 837	3				\$
—	ROLLER BLIND ARRGT.	1100x 837	2				\$
—	ROLLER BLIND ARRGT.	1510x 837	1				\$
NO.OFF	DESCRIPTION AND DIMENSIONS	ITEM	REF.DWG	MAT & SPEC.	WEIGHT/UNIT	REMARKS	
IV	III	II	I	GROUP: 5-4 WINDOW	SUPERSEDED BY:		
ROLLER BLIND ARRGT.							SUPERSEDES: TS/MC-5-4-004 'ALT'a'
							SCALE
							1:50 SSE/D
							1:25 CHD
							ALT S.JAYACHANDRAN
							DRN K.JOTHIMANI
							ALT a b
							INTEGRAL COACH FACTORY CHENNAI - 38.
DATA CODE NO	INDIAN RAILWAY STANDARDS			SHEET	TS/MC-5-4-004		
890				1 OF 1			

ASSEMBLY DRAWINGS		
08/12/2022	21-10-2022	
ALT	DATE OF LATEST ALT	DATE OF FIRST ISSUE
		AME/SME