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Review Document										
Basic Details										
1.	Sectional Committee No. & Title:			Т	TED 14 - Air and Space Vehicles Sectional Committee					
2.	IS No:				IS	S 11642 : Part 1 : 1986				
3.	Title:					Specification for aluminium hexagonal honeycomb core: Part 1 general requirements				
4.	Date of Previous Review:			N	March, 2017					
Review Analysis										
5.1 S.N		ndard (No.) Standard (Title)		Whet	ether the standard has since a revised		Major changes		Action proposed	
1	MIL-STD 401B General Specification Construction and co.		I he standard h		tandard has been withdrawn	n Nil			Nil	
5.2	5.2 Status of standard referred in the IS.									
S.N	No. Referred standards (No.) Referred standards (Title) Since revised IS no. of the corresponding IS			Changes in the referred Standards since last review of IS	refer whic	Changes in the referred standard which are affecting the standard under review		Action proposed		
	No entry made in this table									
	5.3 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard).									
S.N	S.No.		ndard (No.)	Standard (Title)			Provisions that could be relevant while reviewing the IS		Action proposed	
	No entry made in this table									
5.4 Technical comments on the standard received, if any.										
S.N	S.No. Sour		rce	Clause of IS		Comment Action		Action p	proposed	
	No entry made in this table									

S.No.	Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
I	The manufacturer M/s Honeylite Private Limited has commented that the latest standard used in industries is SAE AMS STD 401:1999, However the standard is not available in library. The manufacturer further commented that aluminium grade 3003 (Industrial application) and 5052 (Aerospace application) can only be used. Referring to Indian standard, Al grade 52000 and 31000 grades are used, 53400 is eliminated as per the comment. The manufacturer commented on the basis of specification received from the Integral Coach Factory Chennai that 06-08-850(Al 31000)- P-T may be used in place of 06-08-1270-(Al 52000)-P-T.		2.1 of IS 11642 Part 1	The comment received from the manufacturer may be discussed in the committee for further actions
2	Research Papers	As per the research paper published in ResearchGate by Sh. Sayan Roy, Sh. Rockey Kumar, and Sh. Krishnendu Bhowmik, it is observed that on increasing the core height, the influence of axial and shear deformation of wall of hexagonal honeycomb core is increasing, and similar results with an increase of volume fraction beyond 50 are also observed from the analysis.	Clause 4, IS 11642 (Part 1):1986	Limitation of height ar volume fraction may b discussed with the committee.

5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.							
S.No.	Related IS (revised or new) Related IS would be impacted & th		Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed		
No entry made in this table							

5.7 Any consequential changes to be considered in other IS.							
S.No.	Related IS to get impacted	Related IS Title	Requirements to be impacted				
No entry made in this table							

Other Details							
6.	Any other observation:		IS 737 specifies the requirement for aluminium sheet and relevant designation of the aluminium alloy is also mentioned in the IS 737. The IS may be used for raw material requirements.				
7.	Upload Supporting Document(s)						
7.1 ARP Report		67_2203061646581041_ARP_Report.docx					
7.2 Draft Document		No Document Uploaded					
8.	Recommendations - On the basis of the analysis of the mentioned above consideration of sectional committed the following aspects of the IS under review:		The changes as mentioned above are proposed for the consideration of committee. The same may please be discussed with the committee for further action.				