REVIEWER'S FORM for thesis evaluation



1. Identification of the student							
Student:	Jonathan Knudtsen						
Thesis:	COMPARISON OF MODELING APPROACHES TO ANALYSIS OF MASONRY						
	ARCH BRIDGES						
1 st Institution:	University of Padova						
2 nd Institution:	Czech Technical University in Prague						
Academic year:	2016/2017						
2. Identification of the reviewer							
Name:	Petr Řeřicha						
Institution:	Czech Technical University in Prague, fact	ulty of Civil Engineeringl					
Position:	<u>Professor</u>						
3. Fulfillment of thesis goals							
excellent *	above aver. average □	below aver. □	weak □				
Comments: The goals are pregnantly specified and consequently followed. In my opinion, more could							
not have been achieved in the time and with the resources available.							
4. Academic/scie	ientific/technical quality						
excellent *	above aver. average □	below aver. □	weak □				
	nd solutions, Ring rigid blocks and two non-l						
	the quality and effort put in the thesis. The						
•	pear to be useful for the community of ma	·					
designers.		, i g : i : i,	3				
3 - 1							
5. Formal arrang	gement of the thesis and level of language						
excellent *	above aver. average \square	below aver. □	weak □				

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Comments:								
6. Further comments								
It is impressive in itself that two non-linear FEM models were set up and solved with two different packages. Highly heterogeneous structures like masonry bridges are famous for troubles in convergence. Observations in conclusions are accurate, the table of work hours for individual solutions si instructive. Author notes the importance of the service load limit for masonry bridges. In my opinion, this limit should be based on the long time deterioration of the barrel joints in reverse load conditions (permissible limit state, Melbourne et al., Bridge Engineering v.160, p.81-87)								
7. Grade:A								
Use the following A (excellent)	B (very good)	C (good)	D (satisfactory)	E (sufficient)	F (fail)			
A (excellent)	b (very good)	C (good)	D (Salistactory)	L (Sumclent)	i (idii)			
Prague July 13, 2017								
The Reviewer,								
	of the reviewer)							