

ESDU VACFSW

VIBRATION AND ACOUSTIC FATIGUE SOFTWARE

This is a listing of all the ESDUpacs[†] and VIEWpacs contained within the Vibration and Acoustic Fatigue Series. For an explanation of these terms see Data Item 04013.

<i>ESDUpac</i>	<i>VIEWpac</i>		<i>Program Title</i>	<i>Associated Data Item</i>	<i>Volume</i>
	<i>JAVApac</i>	<i>ESDUview</i>			
A8335 Version 4.2	–	8335A Version 1.0	Estimation of stiffnesses and apparent elastic properties of laminated flat plates.	83035	Volume 1
A7433 Version 1.0	J7433A Version 1.2	7433A Version 1.0	Buzz-saw noise sound pressure levels within the intake duct of a supersonic fan or compressor.	74033	Volume 2
A7521 Version 3.1	J7521A Version 1.2	7521A Version 1.0	Turbulent boundary layer noise.	75021	
A9529 Version 2.0	J9529A Version 1.2	9529A Version 2.0	Propeller noise prediction.	95029	
A9906 Version 2.0	–	–	Near field single-stream jet noise prediction.	99006	
B9906 Version 2.0	–	–		99006	
C9906 Version 2.0	–	–		99006	
A7205 Version 2.0	–	7205A Version 1.0	Stress in stiffened skin panels subjected to random acoustic loading.	72005	Volume 3
A7314 Version 1.0	–	–	Response of panels with flexible stiffeners under acoustic loading.	73014	
A8408 Version 2.0	–	–	Rms strain in laminated skin panels under acoustic loading.	84008	
A8624 Version 1.5	–	–	Estimation of rms strain in laminated face plates of simply-supported sandwich panels subjected to random acoustic loading – including a simplified natural frequency prediction procedure.	86024	
A9526 Version 1.0	J9526A Version 1.2	9526A Version 1.0	Sandwich panel solid edge member strain under acoustic loading.	95026	
B9526 Version 1.0	J9526B Version 1.2	9526B Version 1.0	Sandwich panel surface strain ratio under acoustic loading.	95026	

[†] Provision of Source Code in ESDU Software

Source code is not generally supplied with ESDU Software. It may be available under licence on request. Contact ESDU International for details. Previously, complimentary source code was issued with the software associated with particular Data Items. In order to protect the intellectual property rights of ESDU International this no longer applies. Absence of source code in no way affects the performance of the software for its intended purpose. Some Data Items may refer directly to the source code of their associated software. If this causes any difficulty contact ESDU International for advice.

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<i>ESDUpac</i>	<i>VIEWpac</i>		<i>Program Title</i>	<i>Associated Data Item</i>	<i>Volume</i>
	<i>JAVApac</i>	<i>ESDUview</i>			
A8336 Version 3.0	—	—	Natural frequencies of laminated plates.	83036	Volume 4
A8702 Version 1.2	J8702A Version 1.2	8702A Version 1.0	Vibration of rectangular singly-curved plates (all edges simply-supported).	87002	
B8702 Version 1.3	—	8702B Version 1.1			
A8911 Version 1.1	—	—	Vibration of singly-curved laminated plates (all edges simply-supported).	89011	
A9016 Version 1.2	J9016A Version 1.2	9016A Version 1.0	Vibration of isotropic and orthotropic rectangular plates under static in-plane loading.	90016	
A8040 Version 2.1	—	8040A Version 1.1	Stiffened shell vibrations (various end conditions).	80040	Volume 5
B8040 Version 2.1	—	8040B Version 1.1	Stiffened shell vibrations (shear diaphragm end conditions).	80040	
A8118 Version 2.0	—	—	Natural frequencies of thick-walled isotropic, circular-cylindrical shells.	81018	
A7425 Version 1.0	—	—	Natural frequencies of box structures.	74025	Volume 6
A8537 Version 3.2	—	—	Vibration of sandwich panels with laminated face plates.	85037	
A9820 Version 1.0	—	—	Estimation of transmission efficiencies of coupled plates.	98020	Volume 7
A0002 Version 1.0	—	—	Estimation of rotational spring compliance.	00002	
B0002 Version 1.0	—	—	Sound power radiation from single and double plates.	00002	
A0209 Version 1.0	—	—	Averaged radiation efficiencies of orthotropic plates.	02009	
B0209 Version 1.0	—	—	Averaged radiation efficiencies of orthotropic plates.	02009	
A0610 Version 1.0	—	—	Rainflow cycle counting.	06010	Volume 9
B0610 Version 1.0	—	—	Rainflow cycle counting.	06010	
A0611 Version 1.0	—	—	Dirlik’s method for the estimation of fatigue life	06011	
B0611 Version 1.0	—	—	Input program for Dirlik’s method for the estimation of fatigue life	06011	