

## Appendices for:

### Structural performance of flexible freeform panels subjected to wind loads

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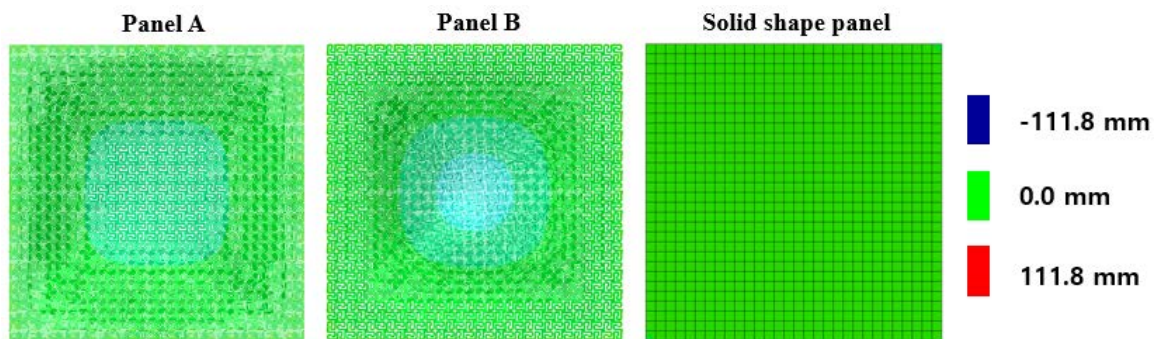
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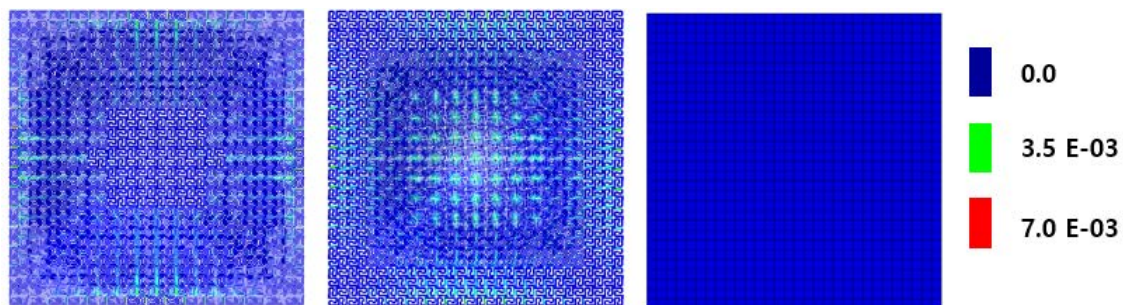
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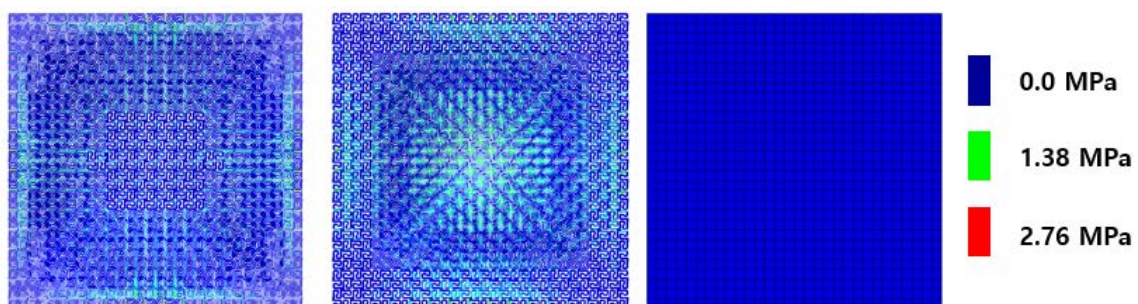
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(a)

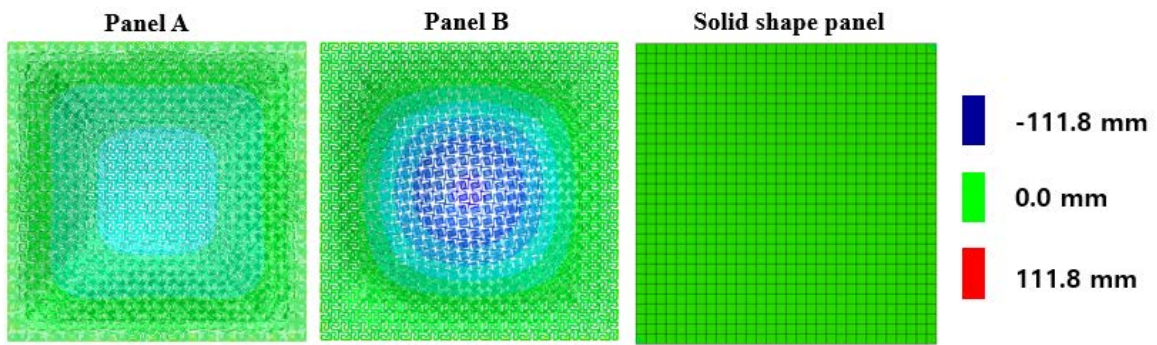


(b)

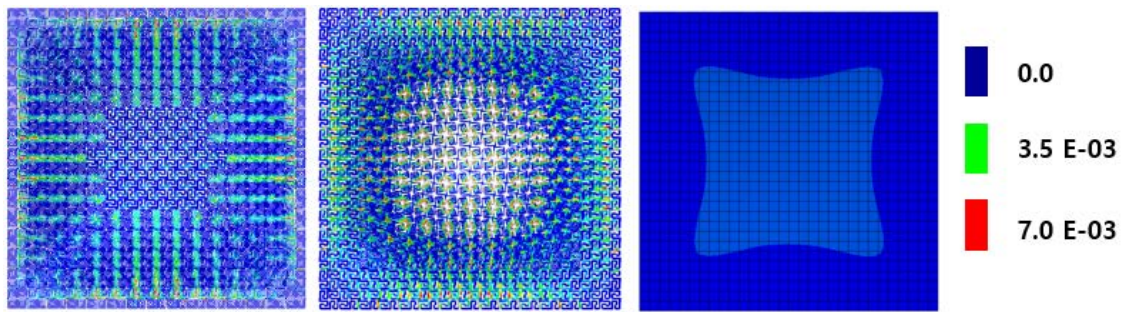


(c)

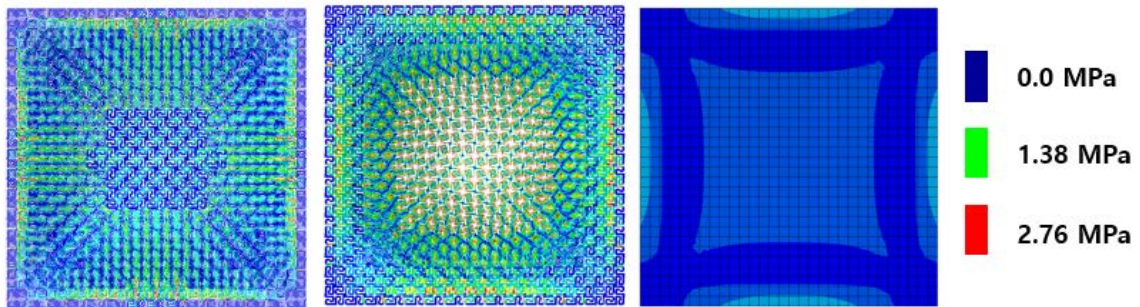
**Fig. A1** Static analysis results of flat panels for WS1: (a) displacement, (b) strain and (c) stress.



(a)

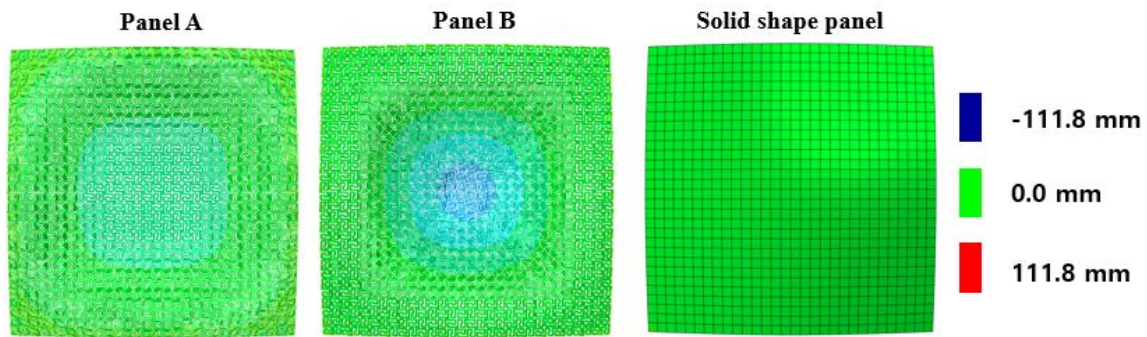


(b)

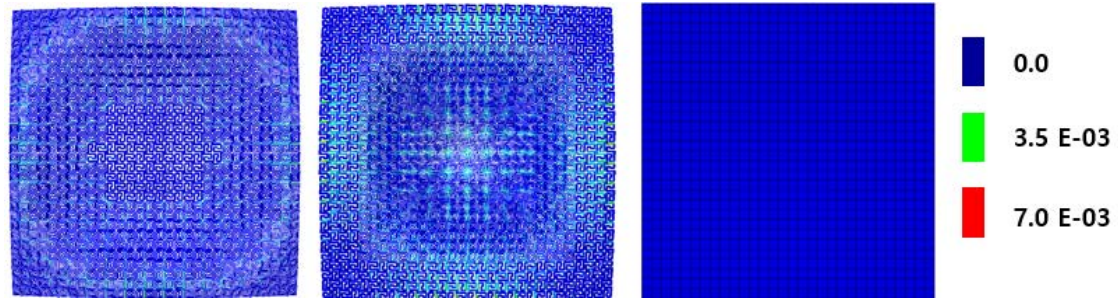


(c)

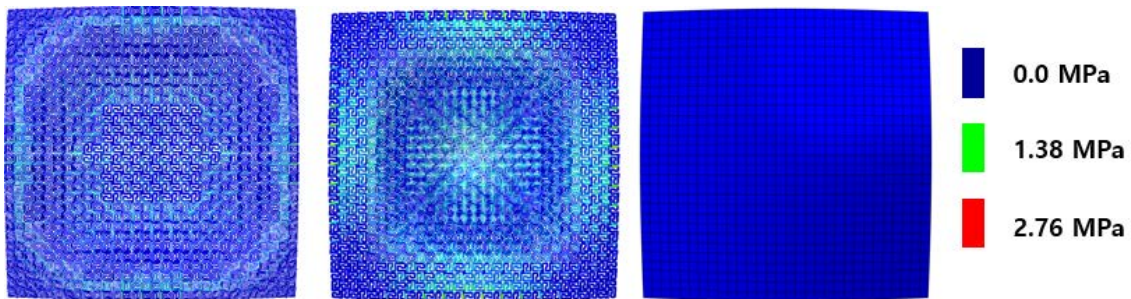
**Fig. A2** Static analysis results of flat panels for WS3: (a) displacement, (b) strain and (c) stress.



(a)

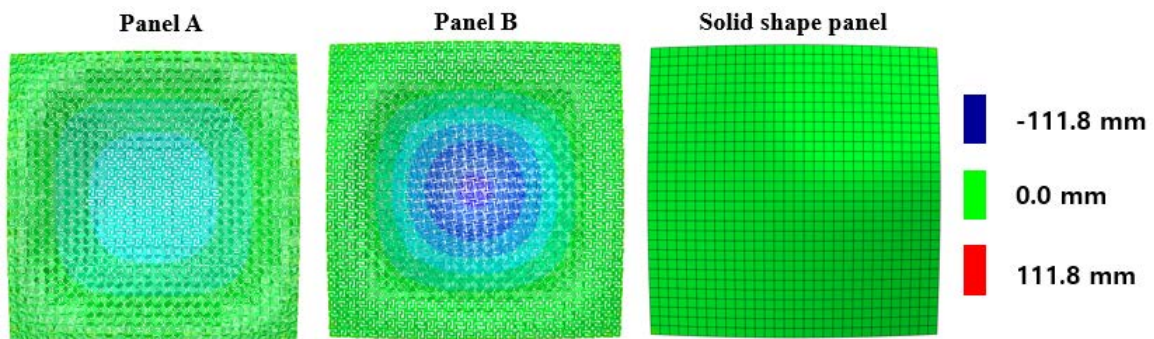


(b)

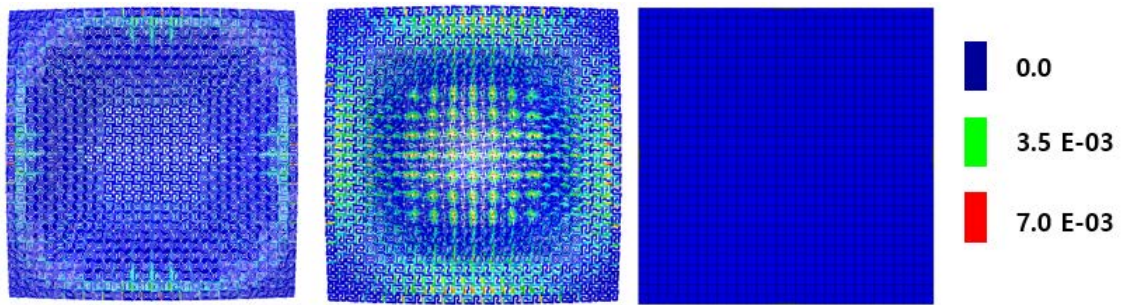


(c)

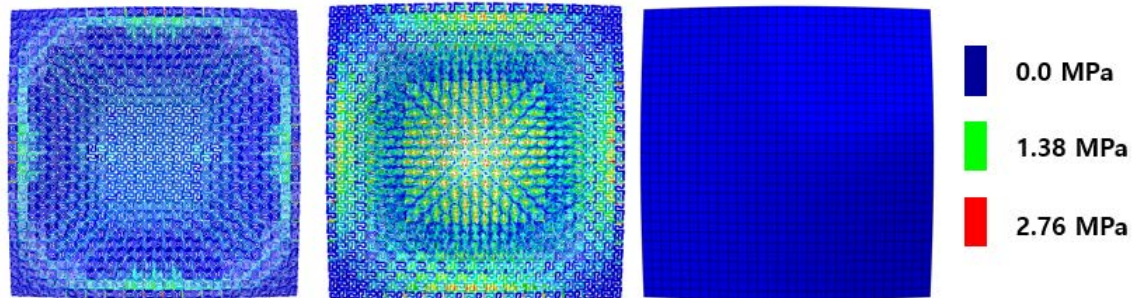
**Fig. A3** Static analysis results of 50.8 mm pre-deformed shape panels for WS1: (a) displacement, (b) strain and (c) stress.



(a)

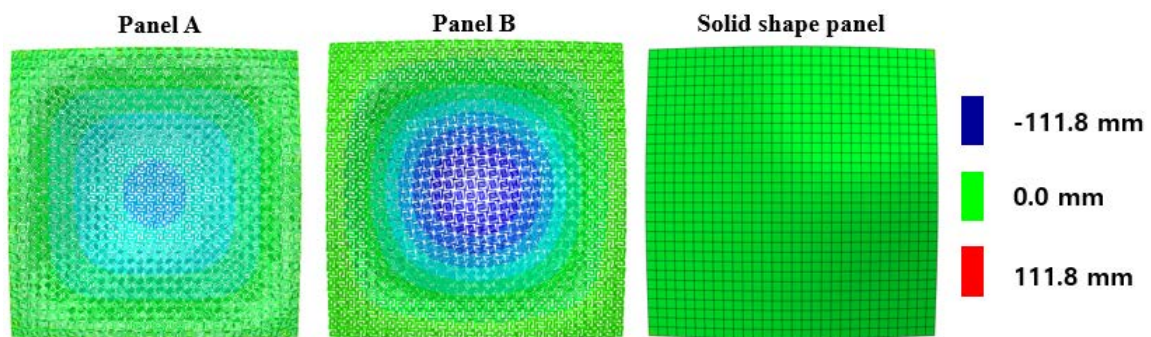


(b)

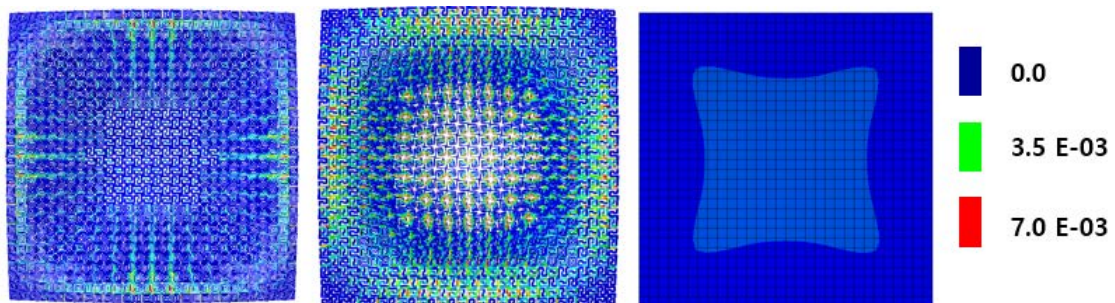


(c)

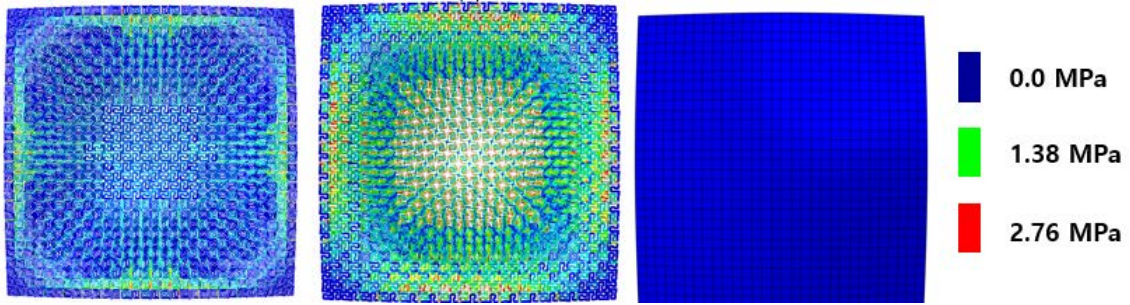
**Fig. A4** Static analysis results of 50.8 mm pre-deformed shape panels for WS2: (a) displacement, (b) strain and (c) stress.



(a)

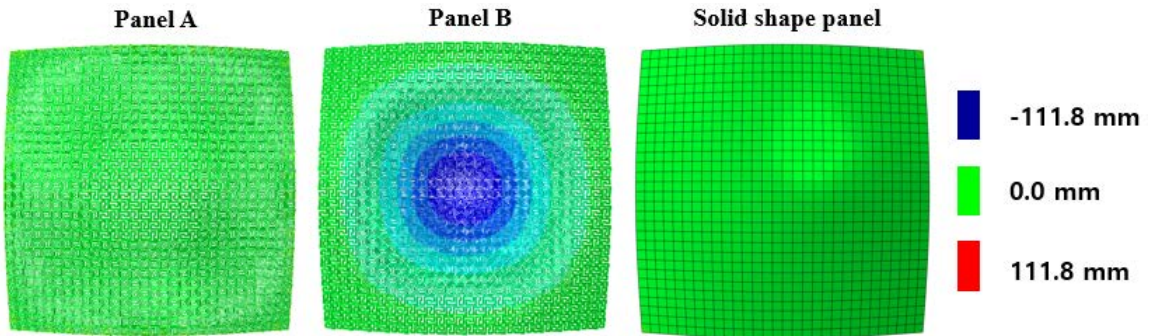


(b)

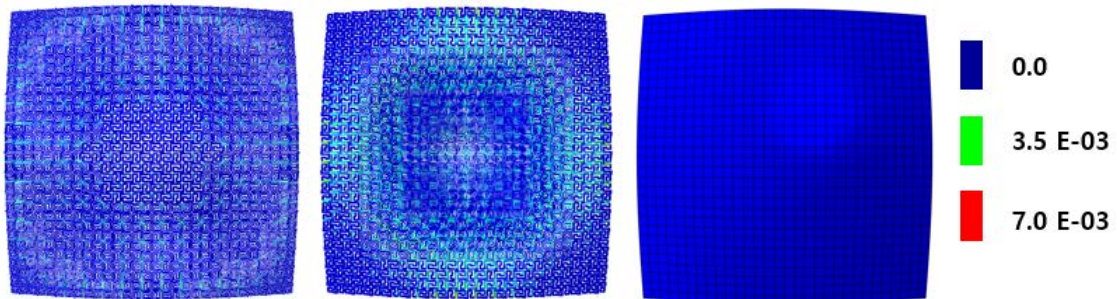


(c)

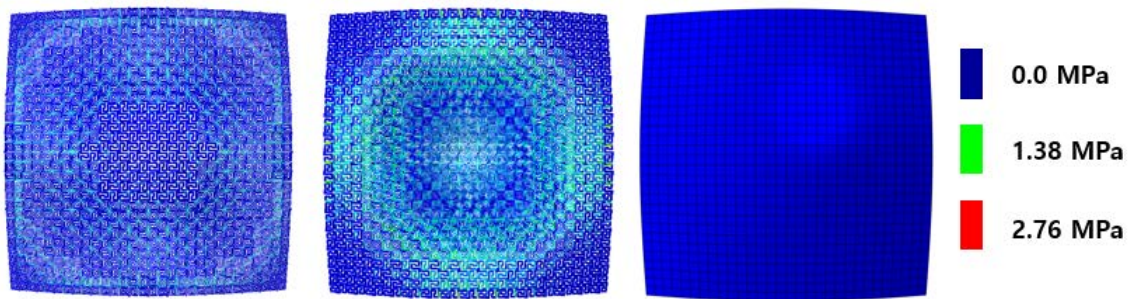
**Fig. A5** Static analysis results of 50.8 mm pre-deformed shape panels for WS3: (a) displacement, (b) strain and (c) stress.



(a)

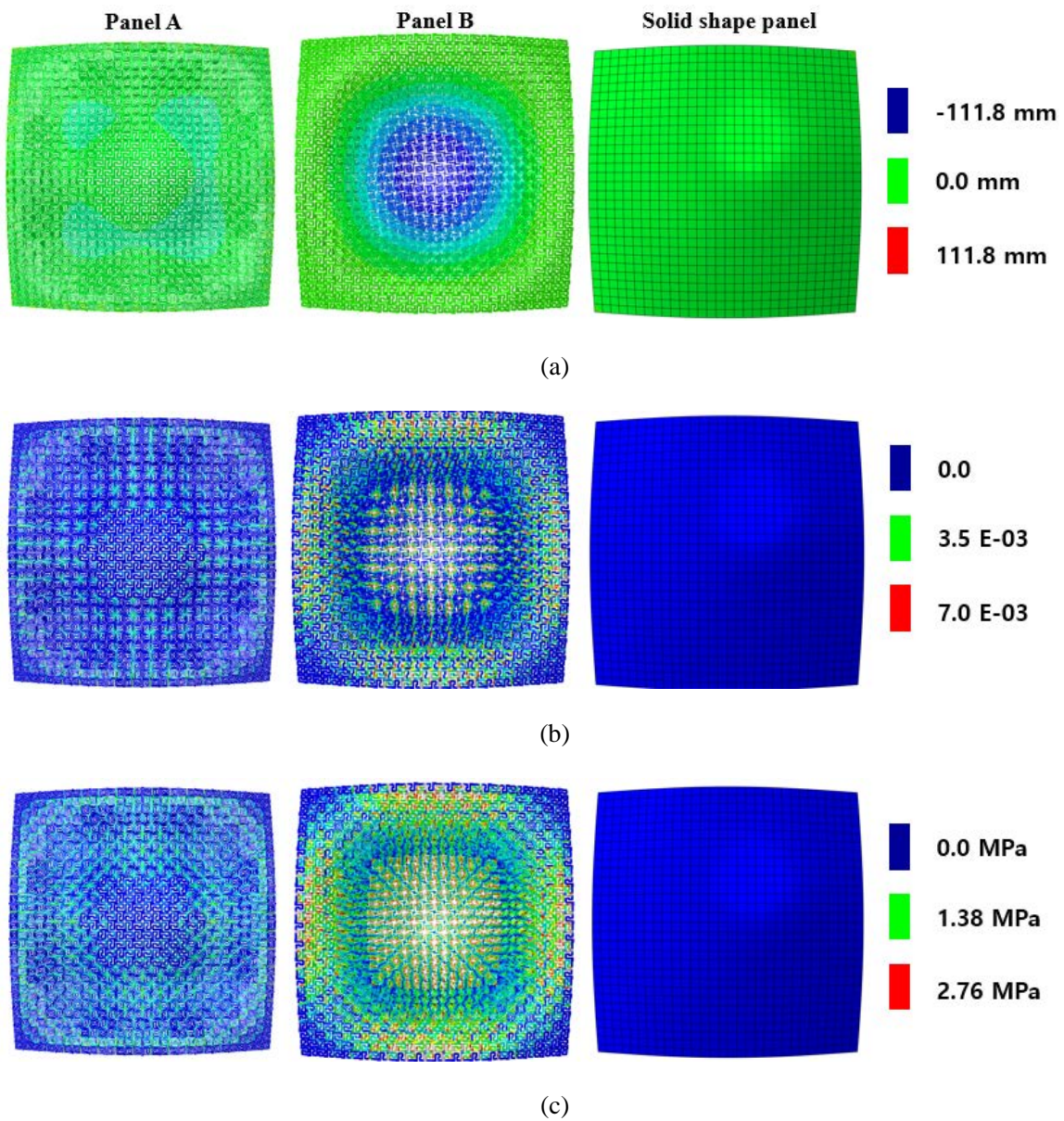


(b)

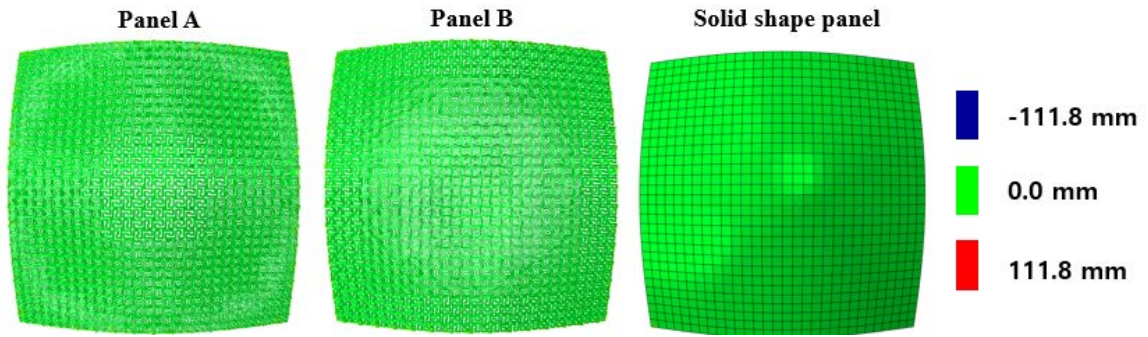


(c)

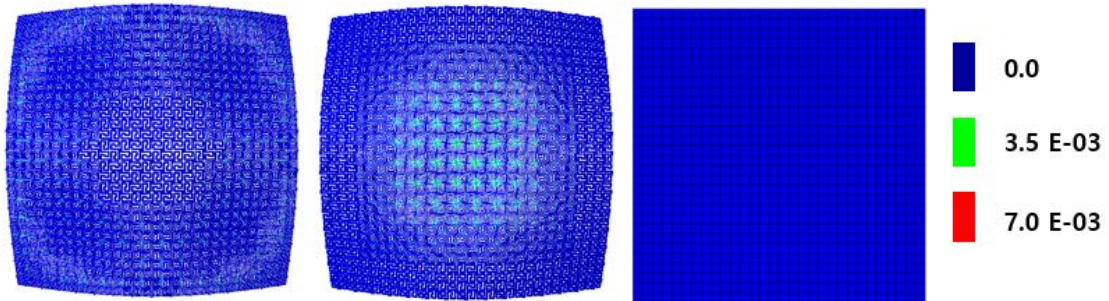
**Fig. A6** Static analysis results of 101.6 mm pre-deformed shape panels for WS1: (a) displacement, (b) strain and (c) stress.



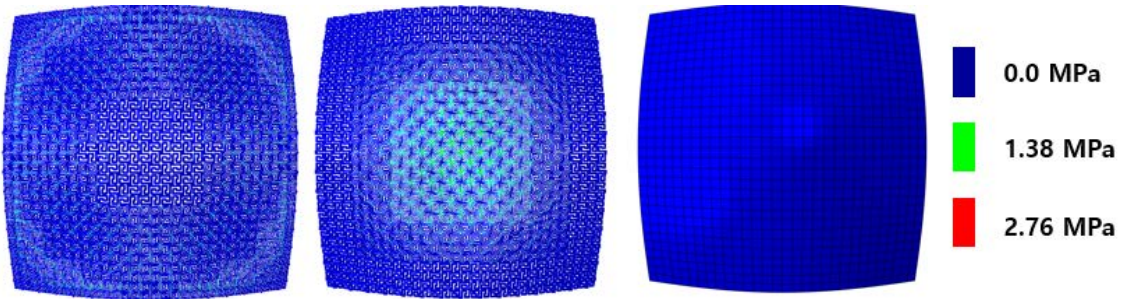
**Fig. A7** Static analysis results of 101.6 mm pre-deformed shape panels for WS3: (a) displacement, (b) strain and (c) stress.



(a)

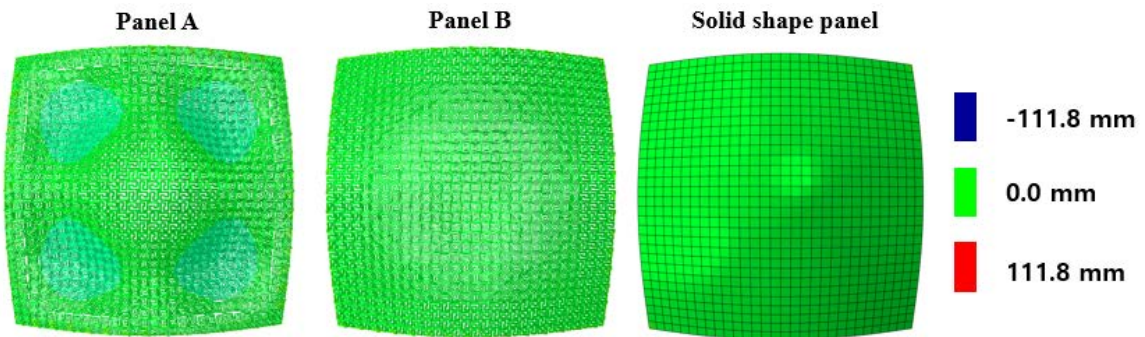


(b)

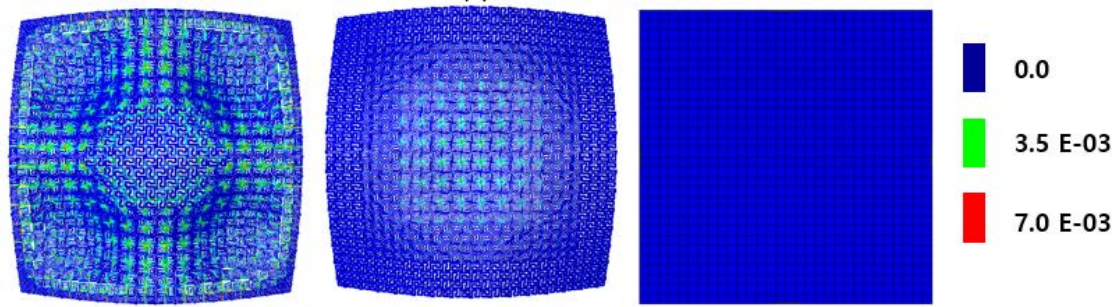


(c)

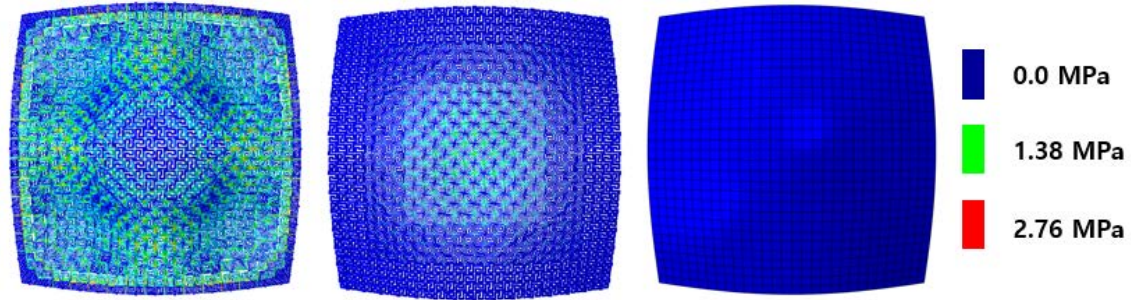
**Fig. A8** Static analysis results of 203.2 mm pre-deformed shape panels for WS1: (a) displacement, (b) strain and (c) stress.



(a)

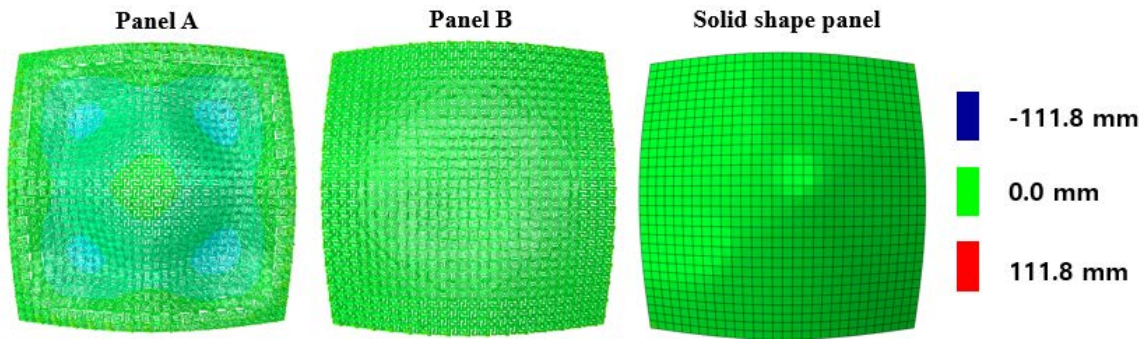


(b)

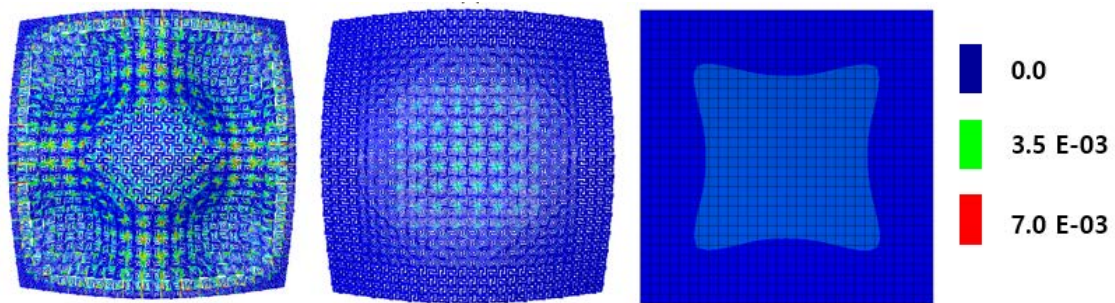


(c)

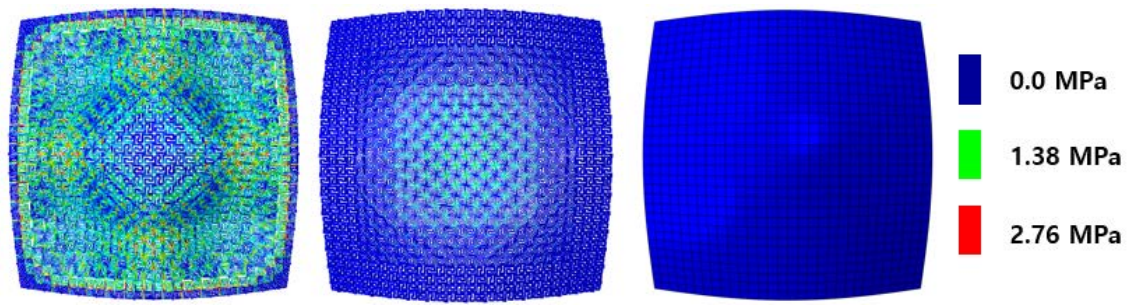
**Fig. A9** Static analysis results of 203.2 mm pre-deformed shape panels for WS2: (a) displacement, (b) strain and (c) stress.



(a)

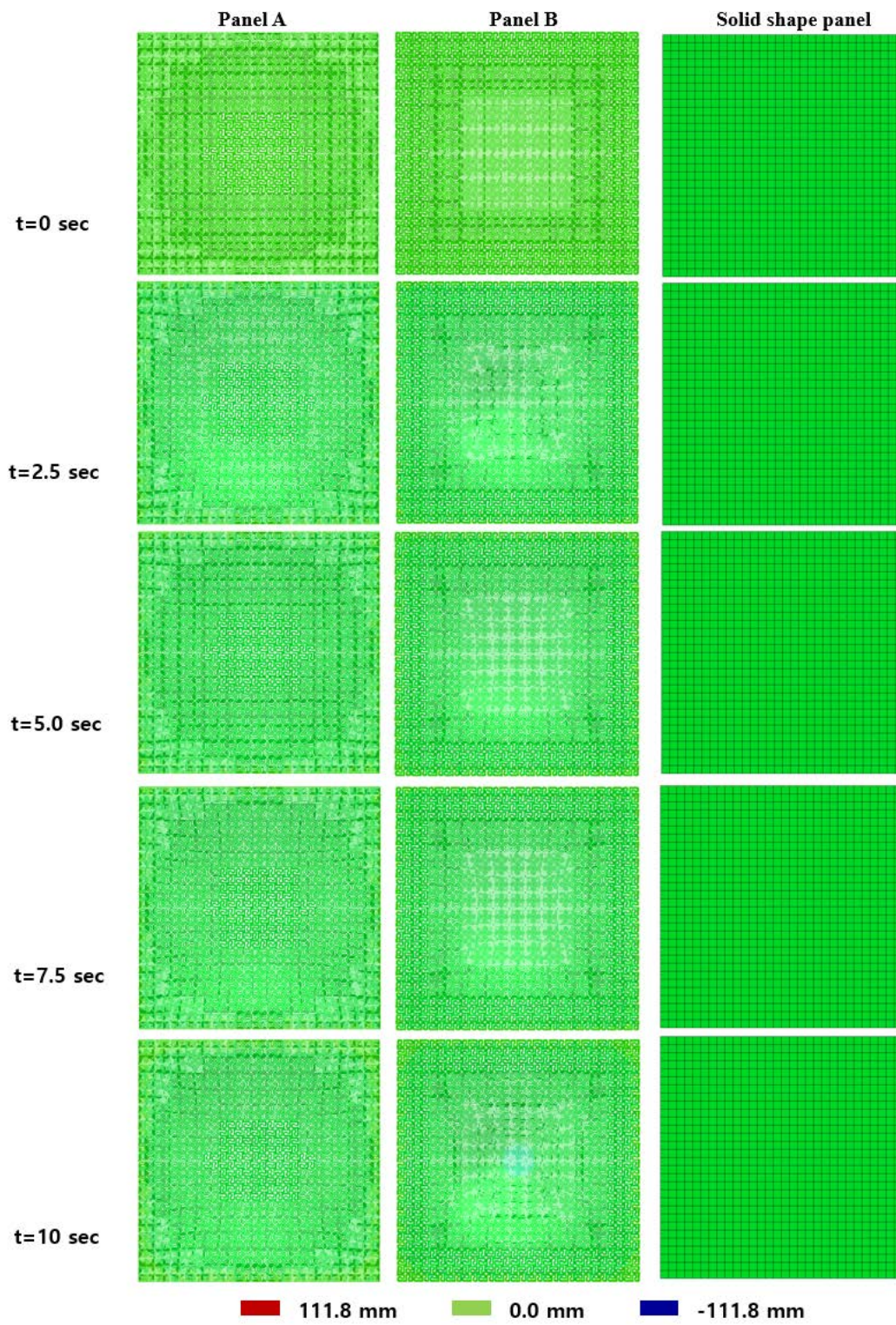


(b)

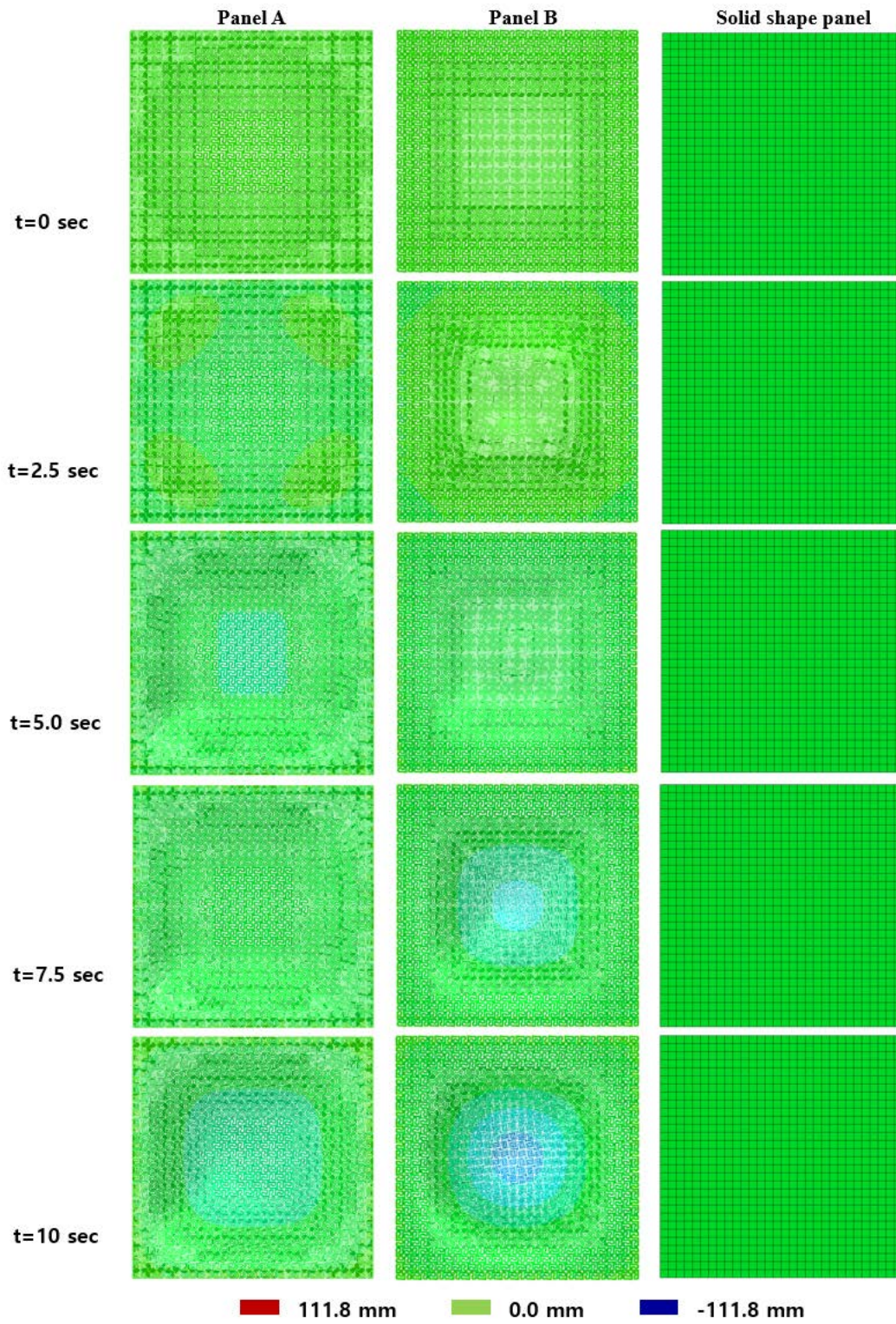


(c)

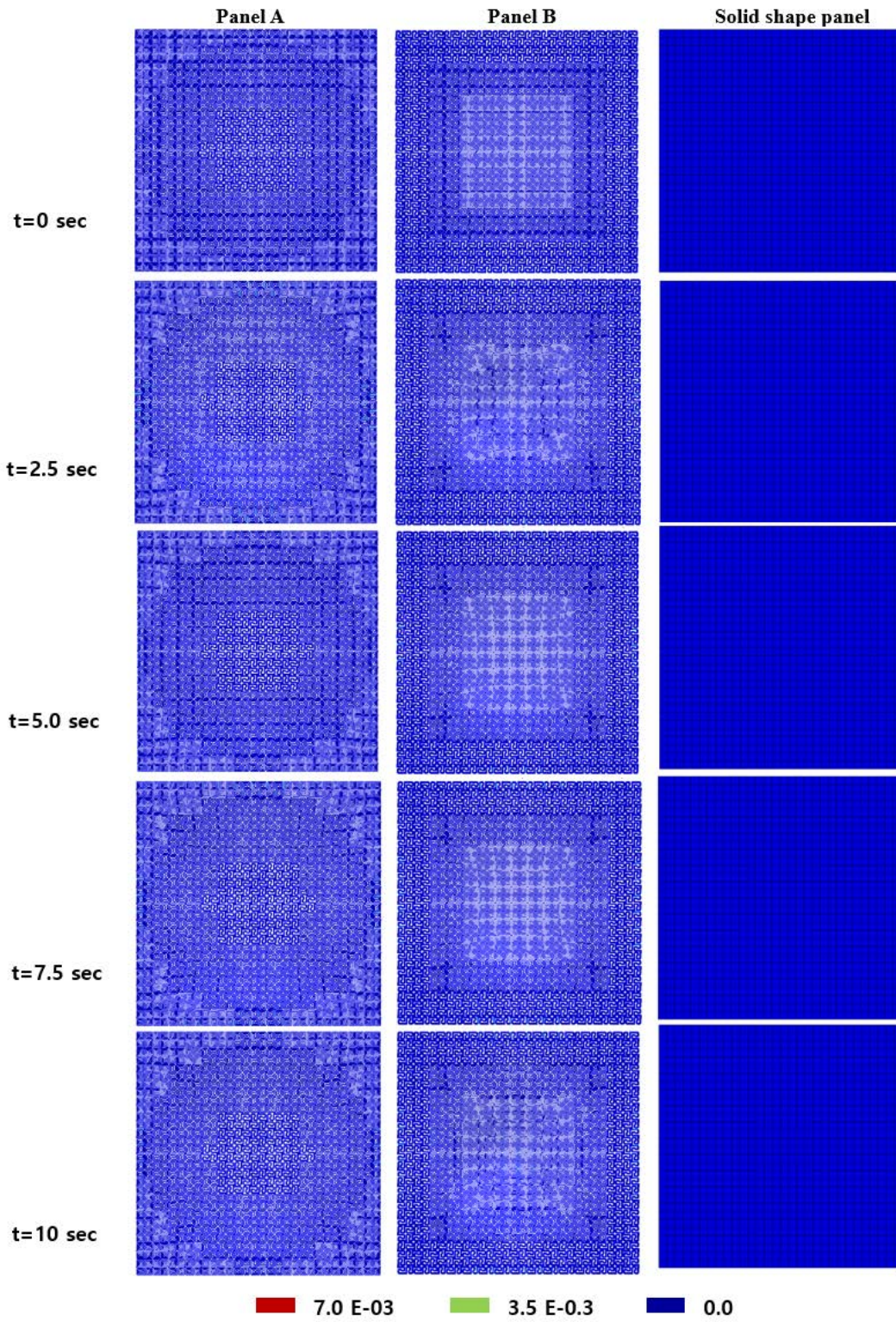
**Fig. A10** Static analysis results of 203.2 mm pre-deformed shape panels for WS3: (a) displacement, (b) strain and (c) stress.



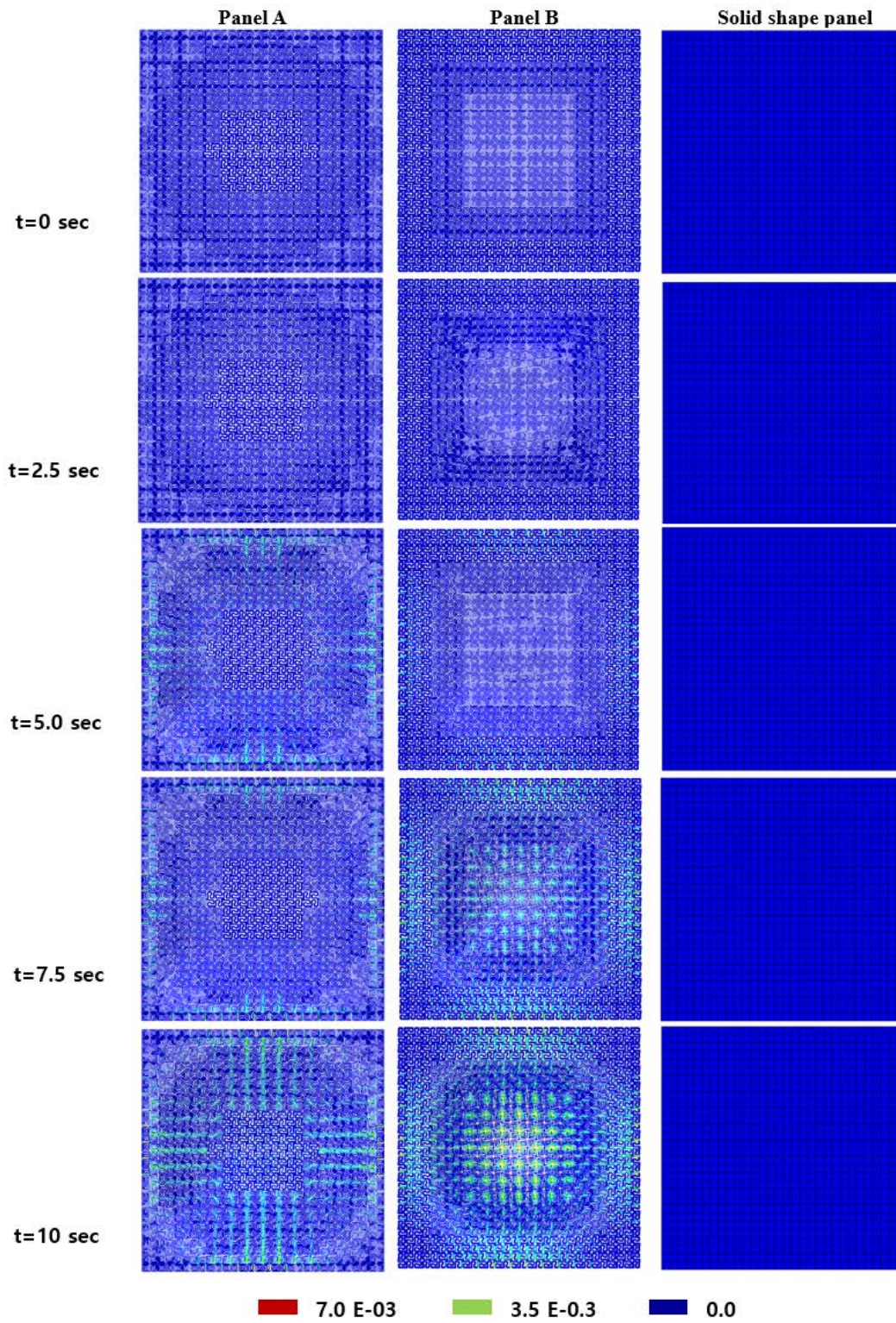
**Fig. A11** Displacement dynamic analysis results of flat panels for WS1.



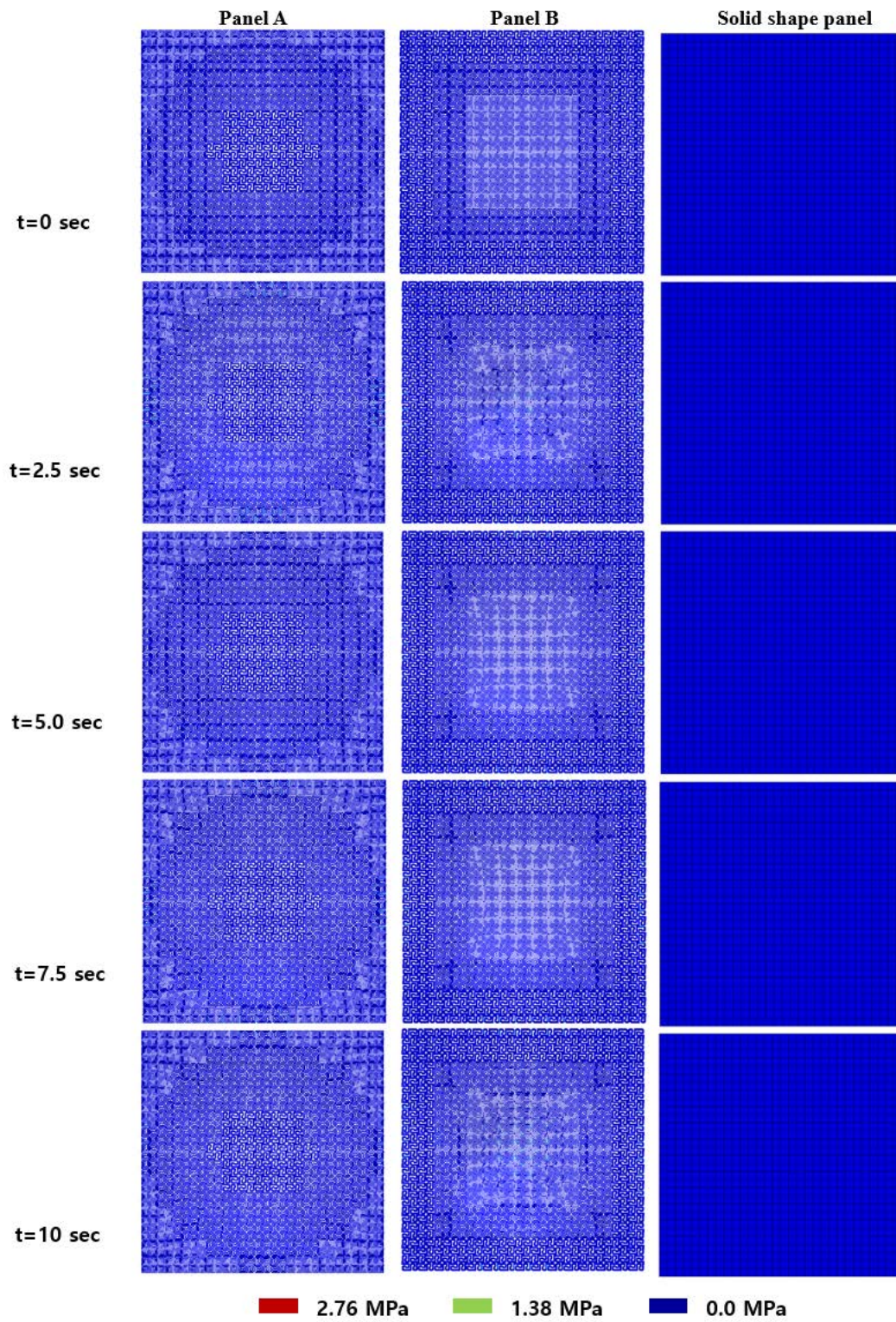
**Fig. A12** Displacement dynamic analysis results of flat panels for WS3.



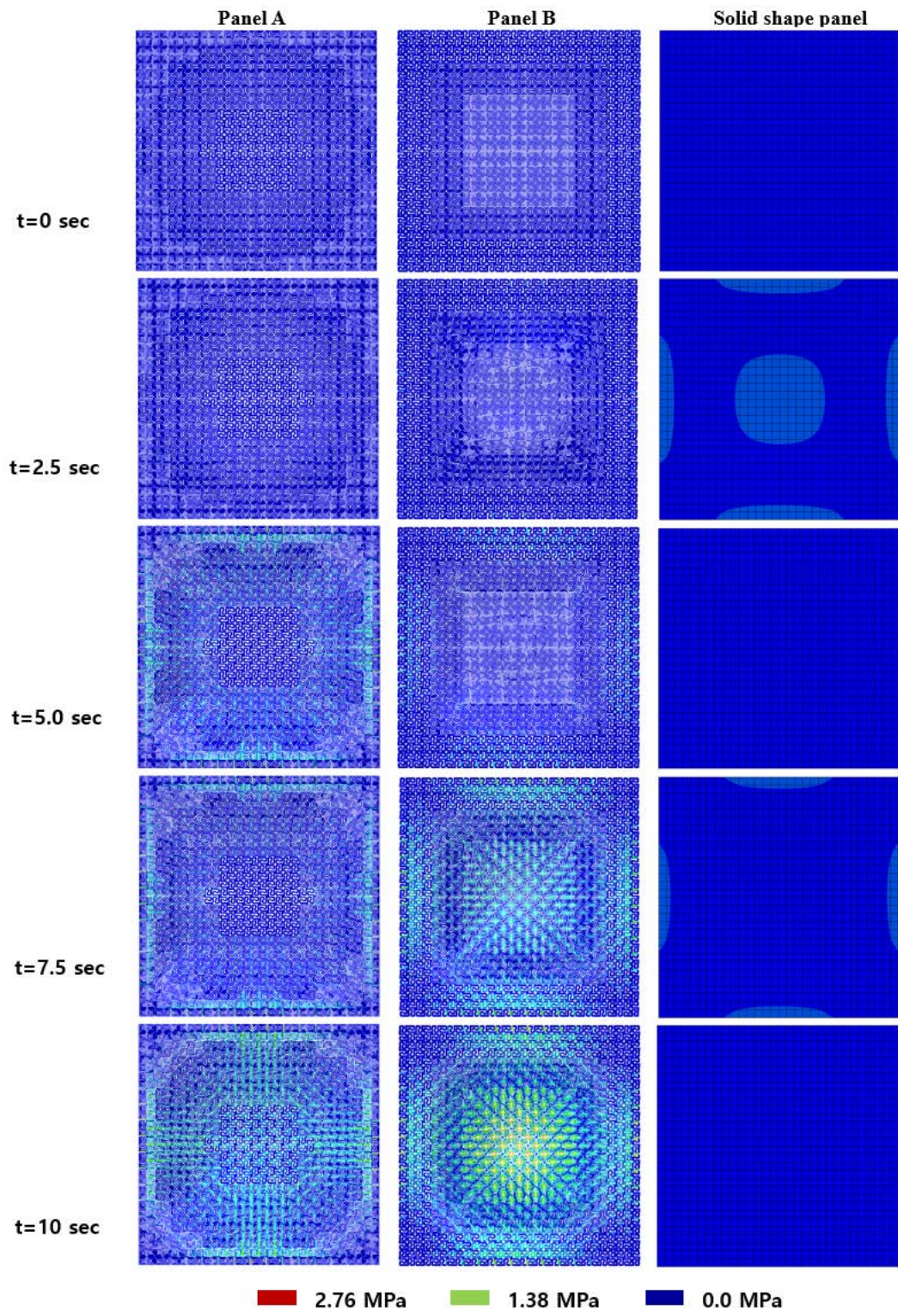
**Fig. A13** Strain dynamic analysis results of flat panels for WS1.



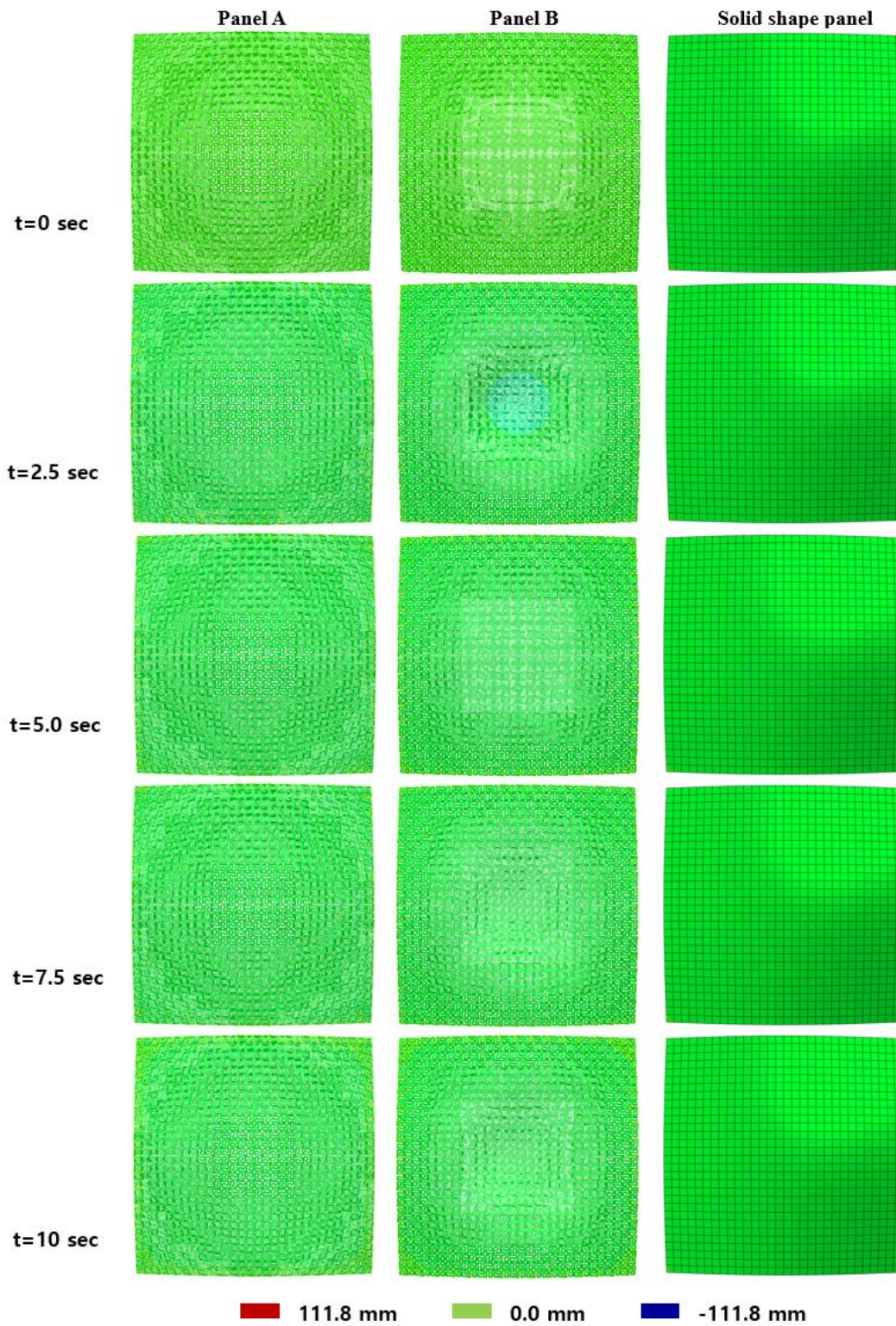
**Fig. A14** Strain dynamic analysis results of flat panels for WS3.



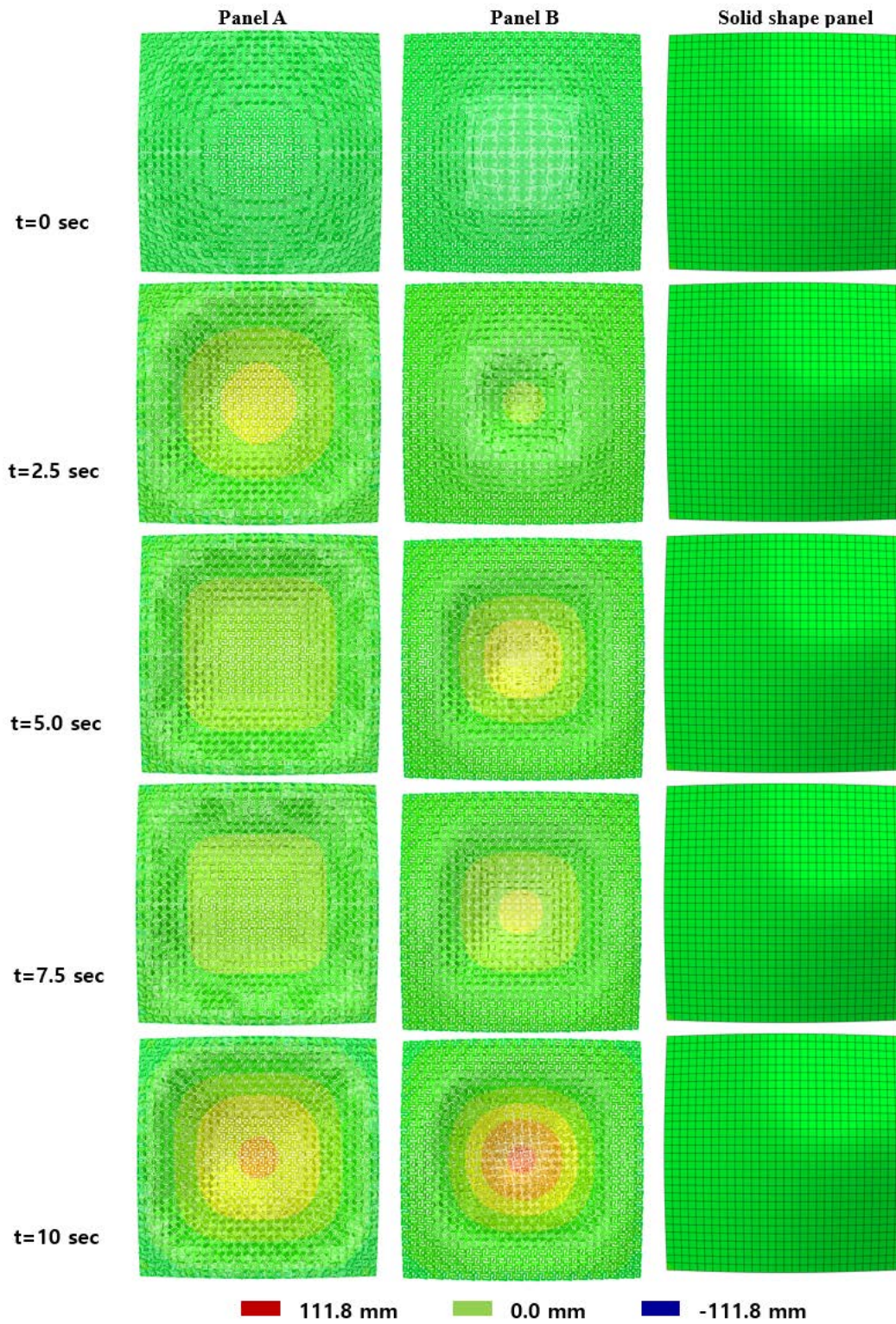
**Fig. A15** Stress dynamic analysis results of flat panels for WS1.



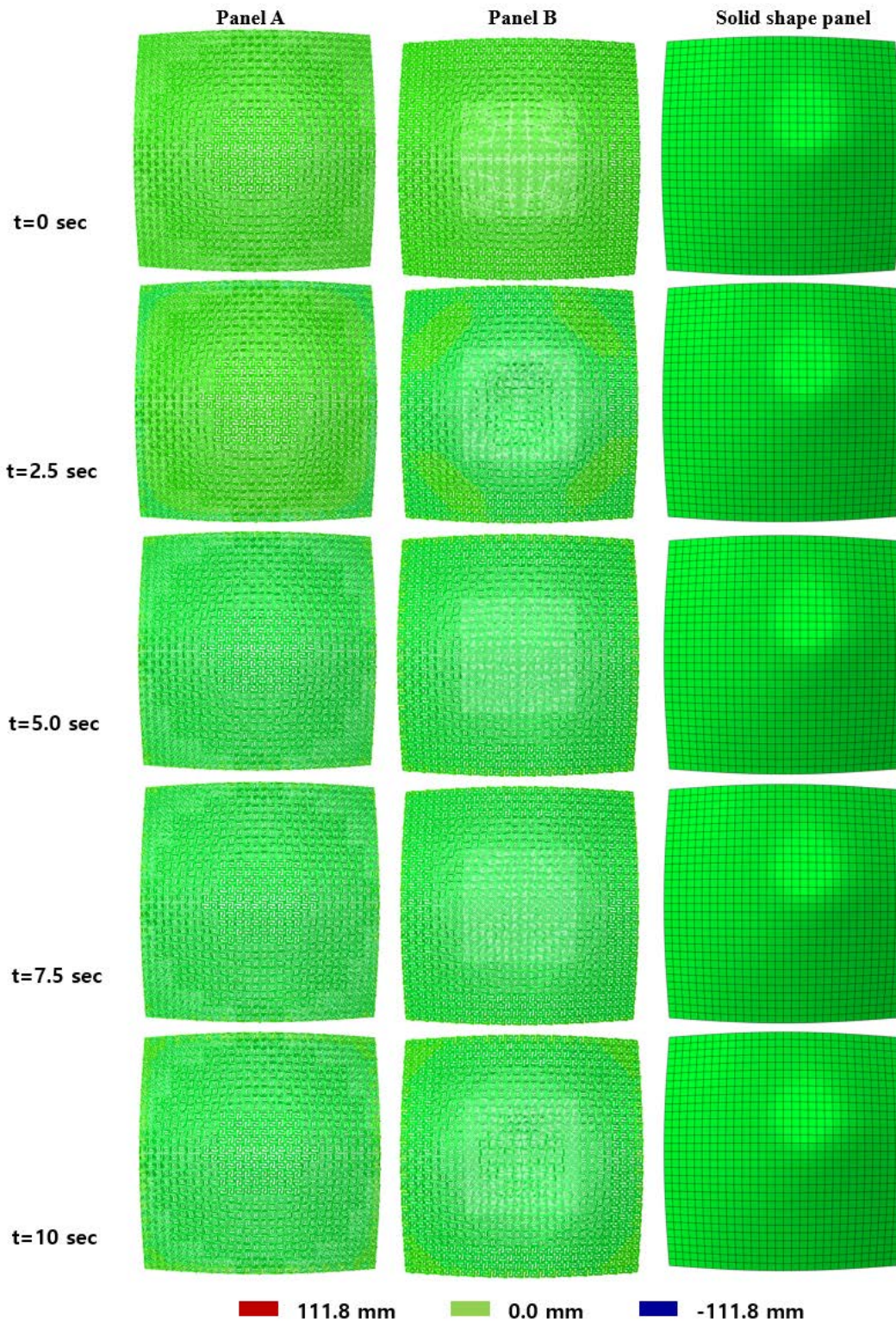
**Fig. A16** Stress dynamic analysis results of flat panels for WS3.



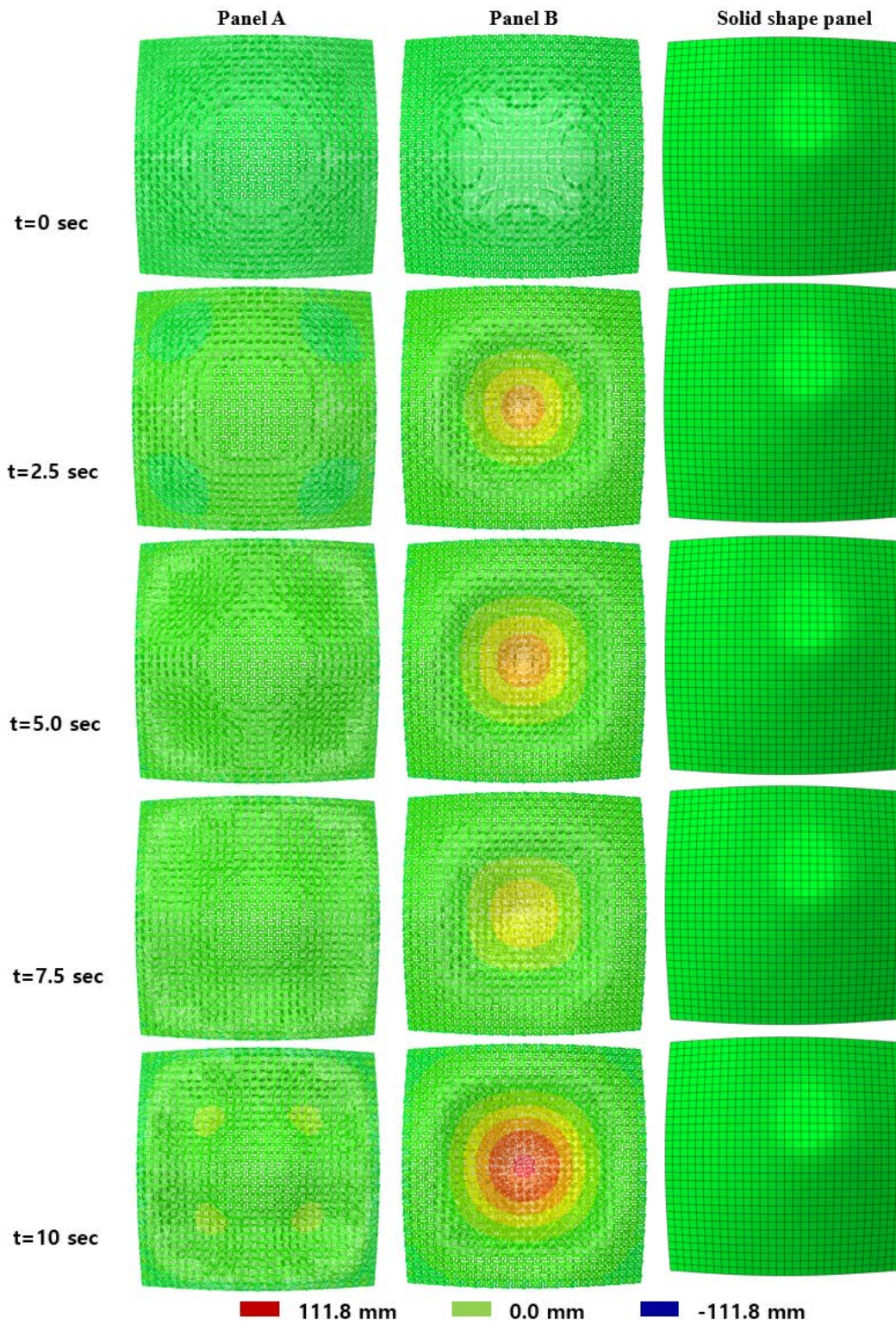
**Fig. A17** Displacement dynamic analysis results of 50.8 mm pre-deformed shape panels for WS1.



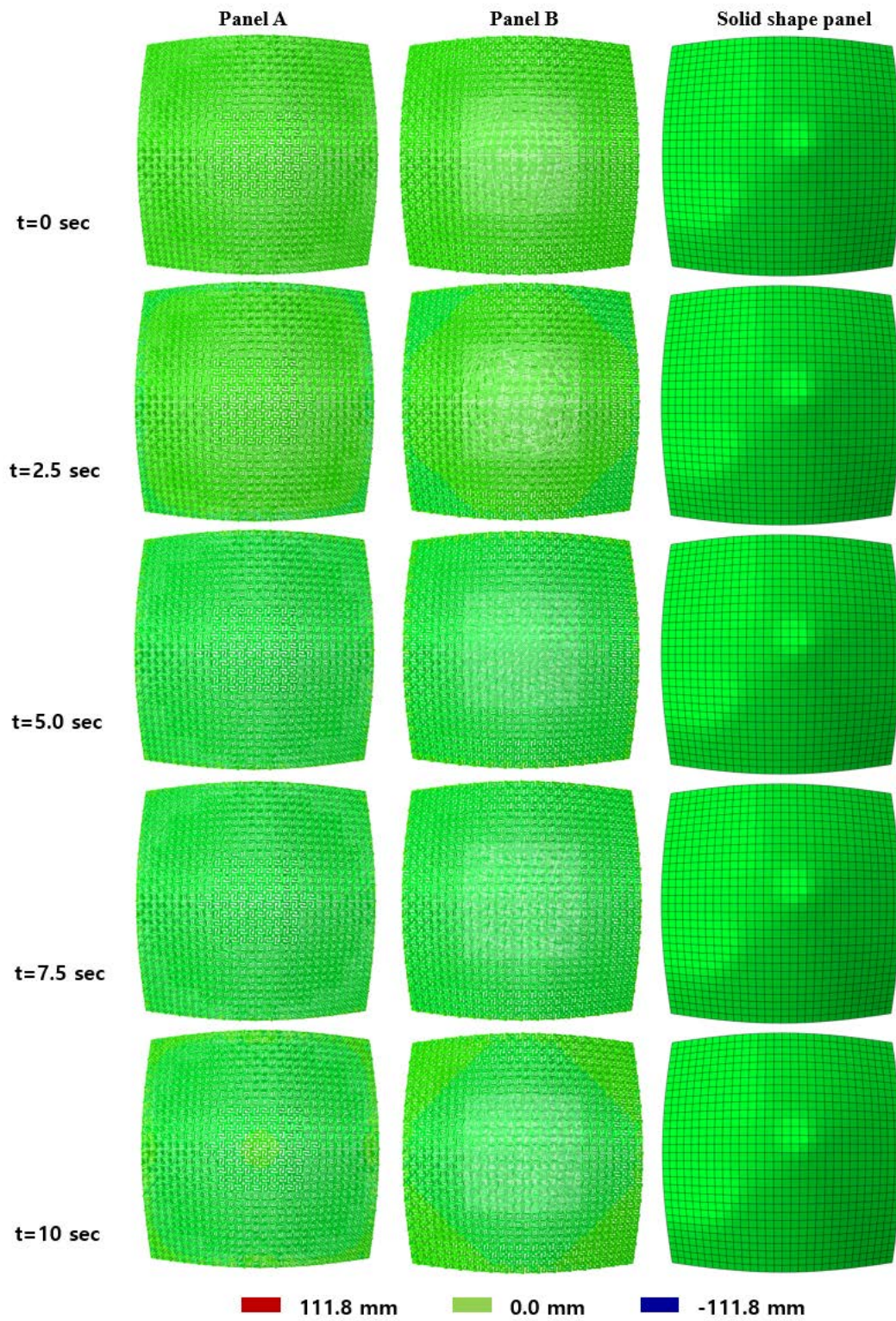
**Fig. A18** Displacement dynamic analysis results of 50.8 mm pre-deformed shape panels for WS3.



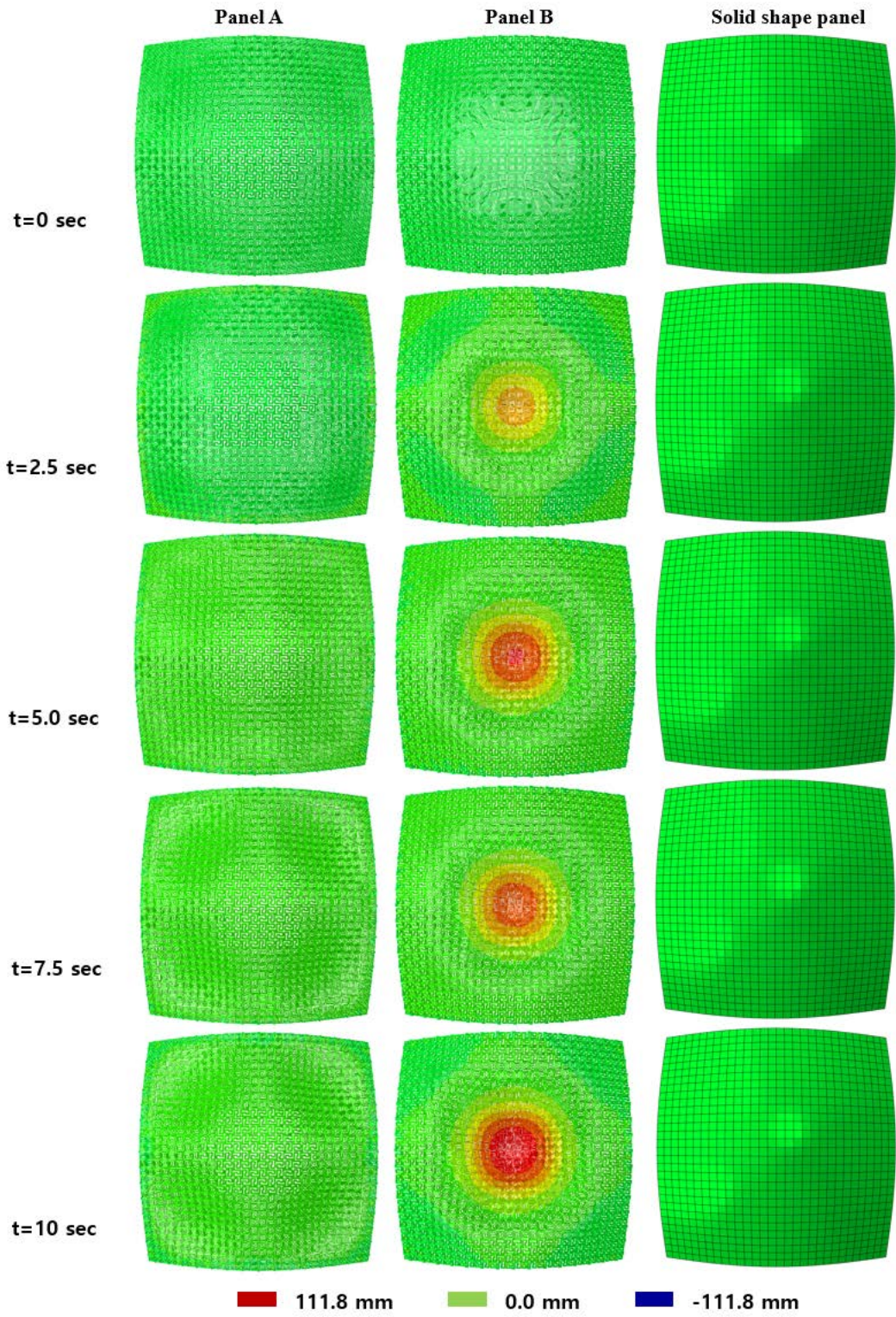
**Fig. A19** Displacement dynamic analysis results of 101.6 mm pre-deformed shape panels for WS1.



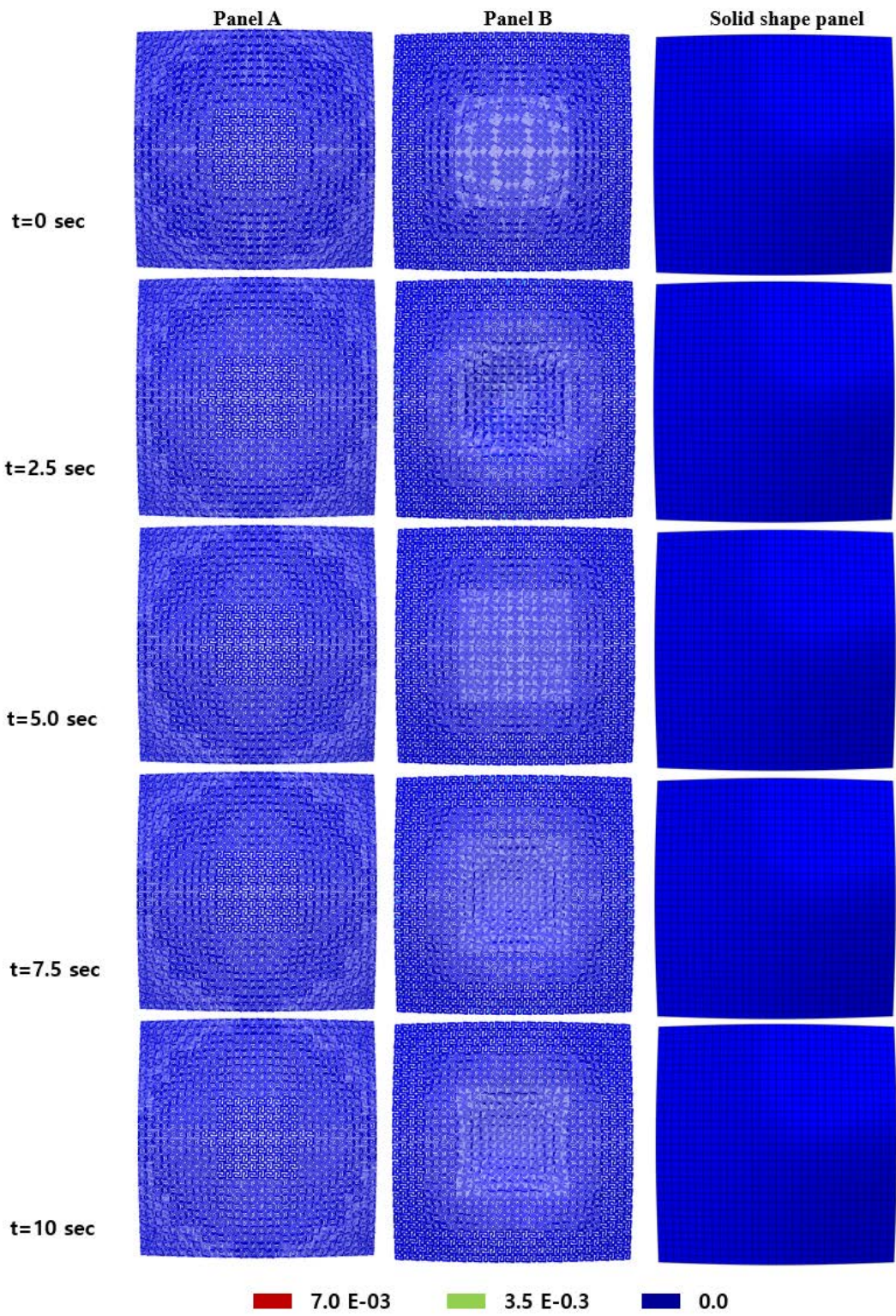
**Fig. A20** Displacement dynamic analysis results of 101.6 mm pre-deformed shape panels for WS3.



**Fig. A21** Displacement dynamic analysis results of 203.2 mm pre-deformed shape panels for WS1.



**Fig. A22** Displacement dynamic analysis results of 203.2 mm pre-deformed shape panels for WS3.



**Fig. A23** Strain dynamic analysis results of 50.8 mm pre-deformed shape panels for WS1.

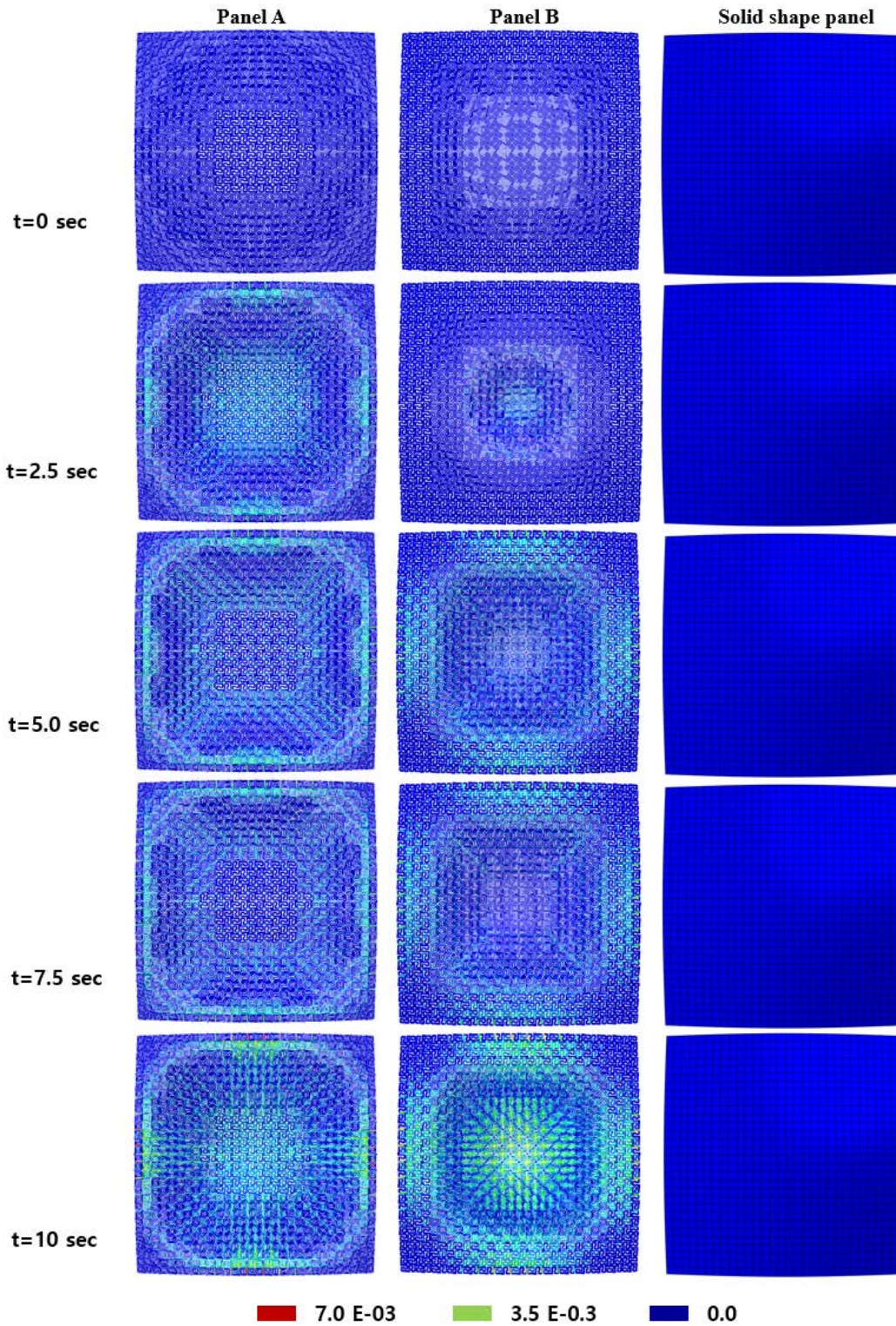
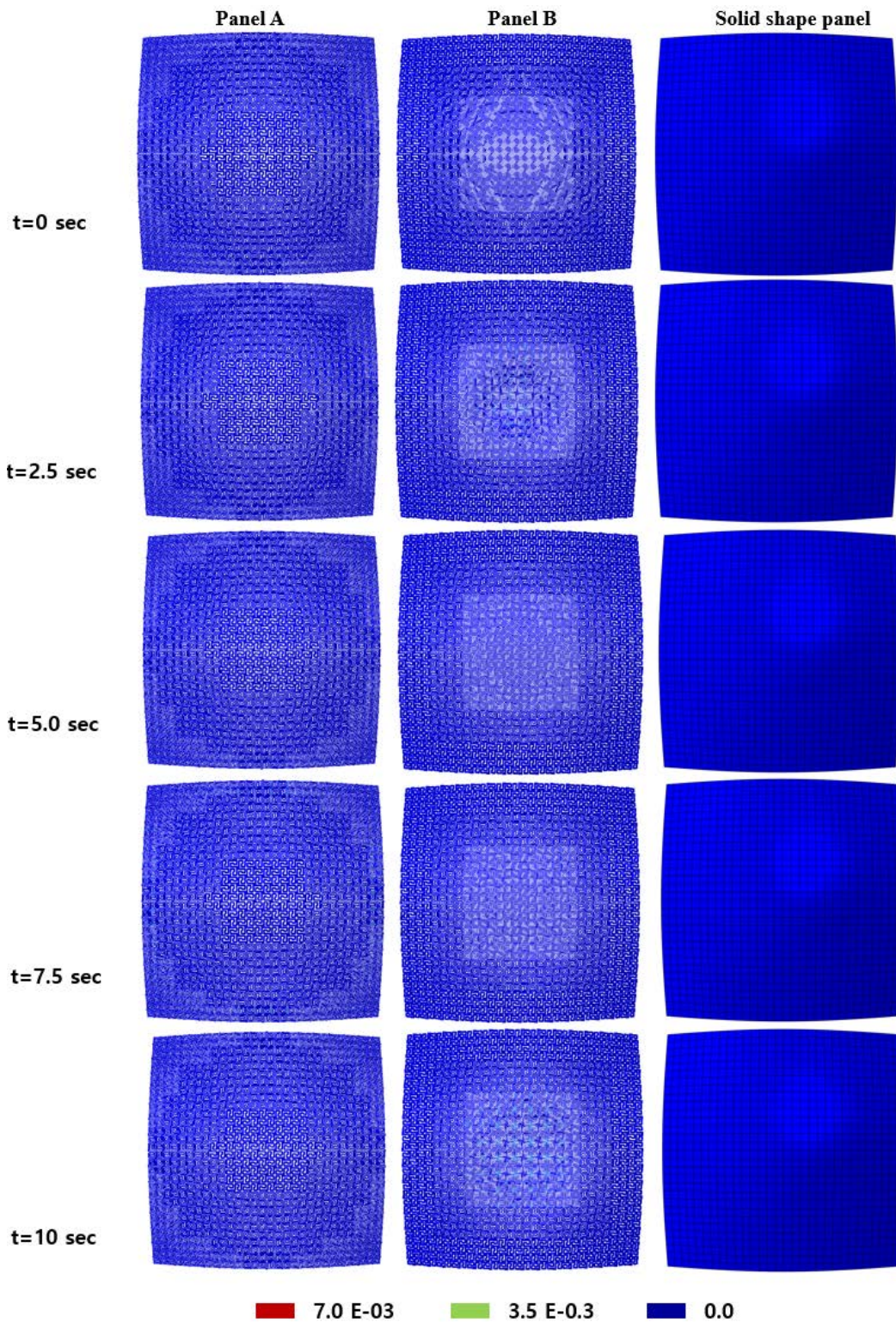
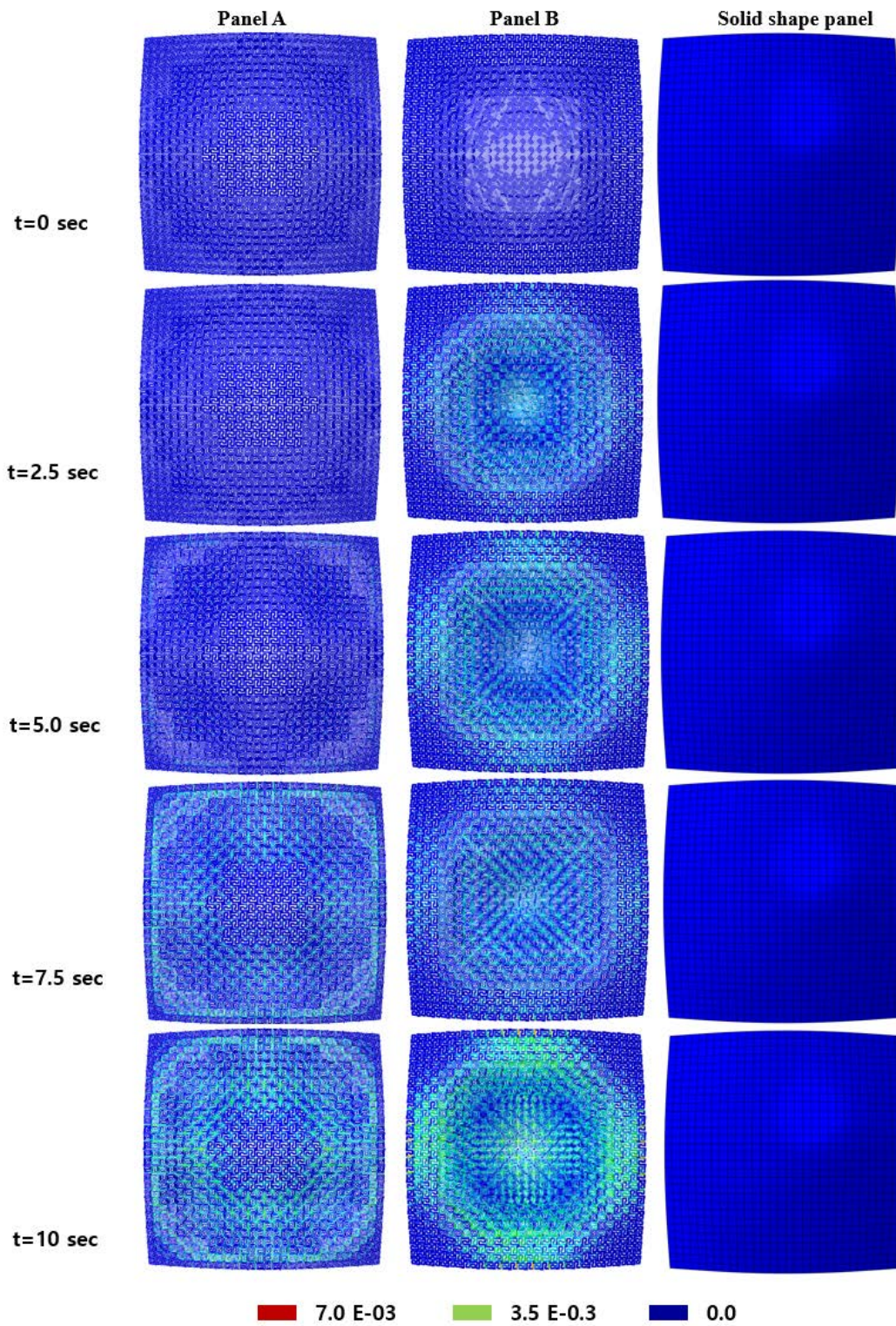


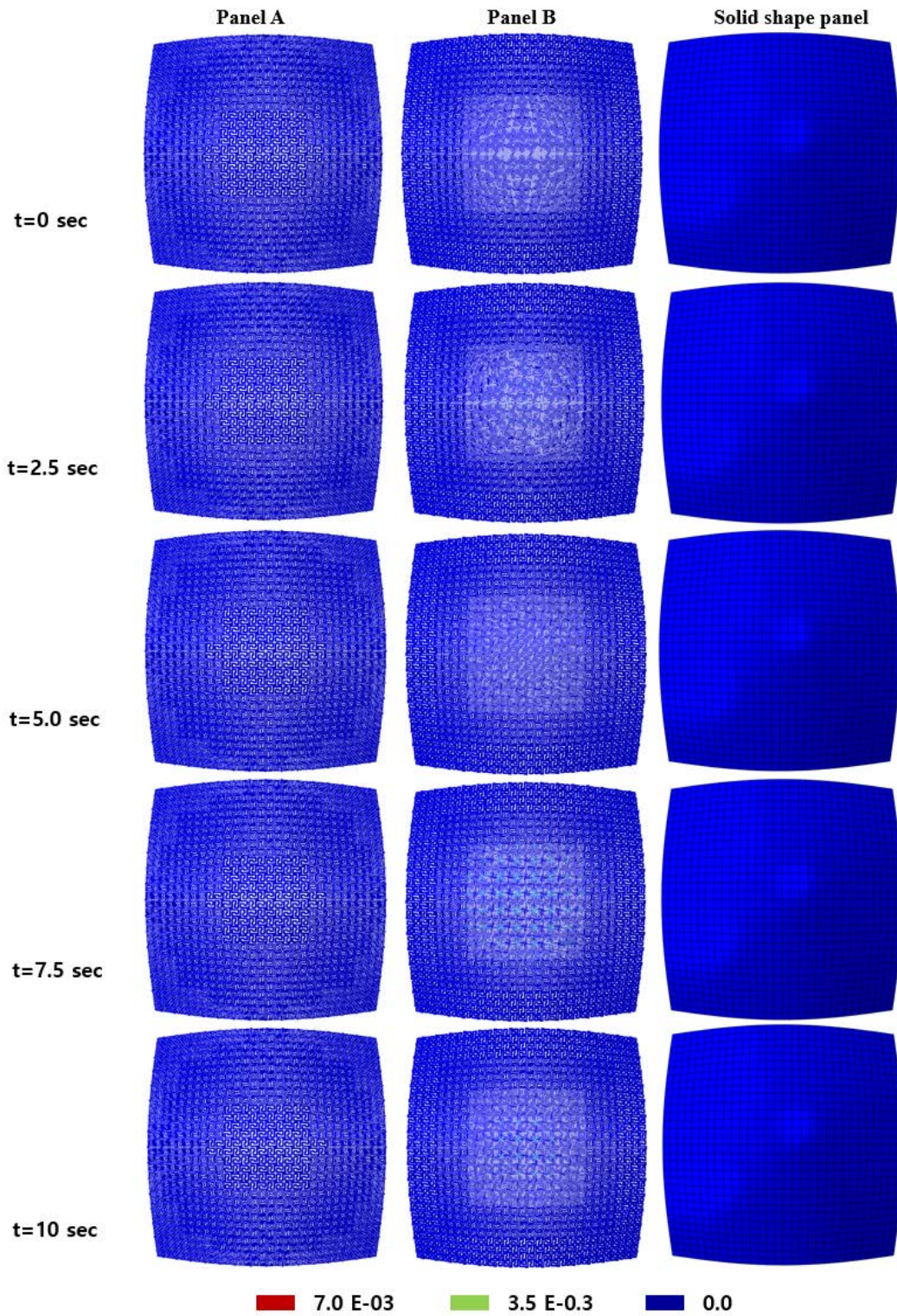
Fig. A24 Strain dynamic analysis results of 50.8 mm pre-deformed shape panels for WS3.



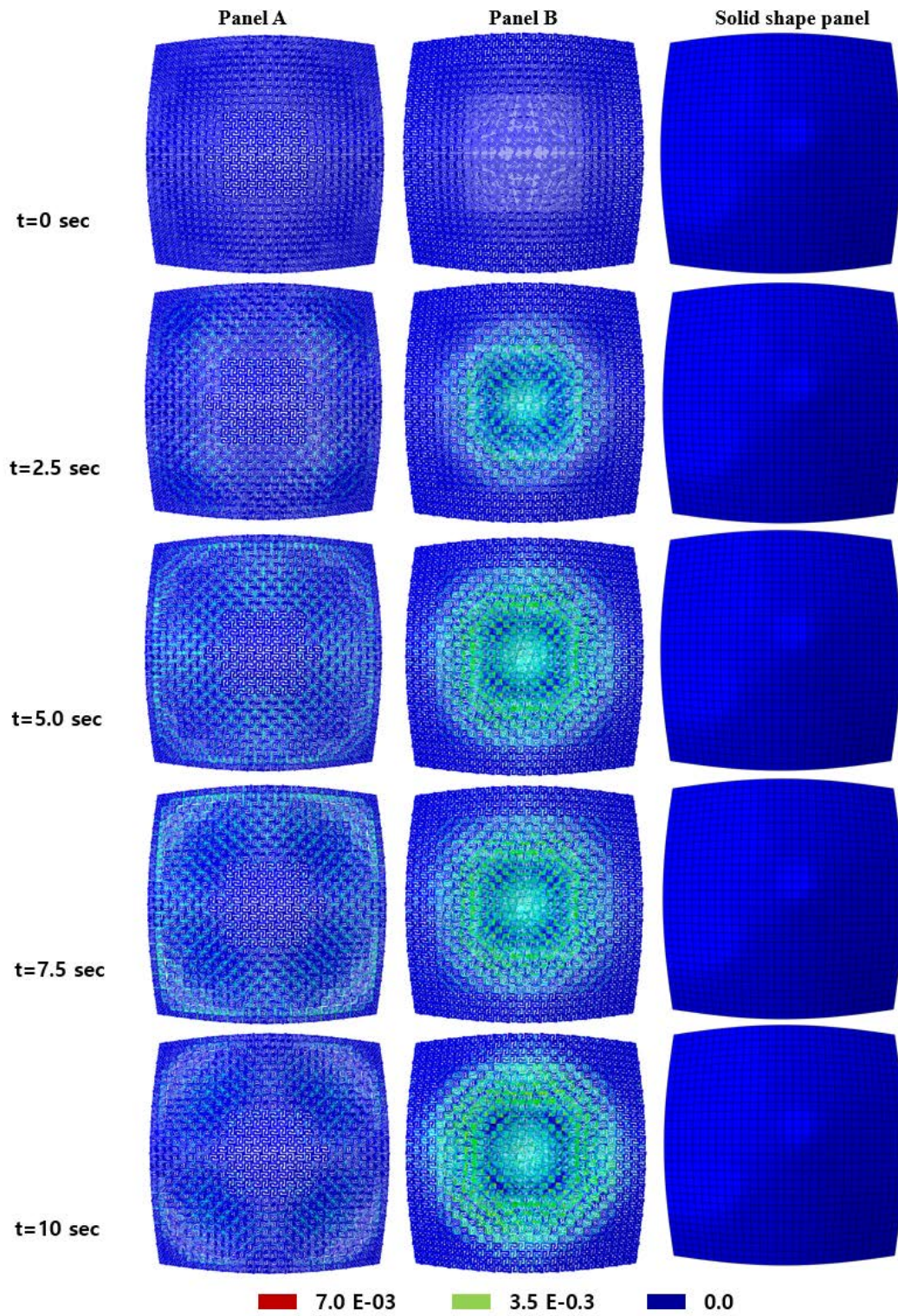
**Fig. A25** Strain dynamic analysis results of 101.6 mm pre-deformed shape panels for WS1.



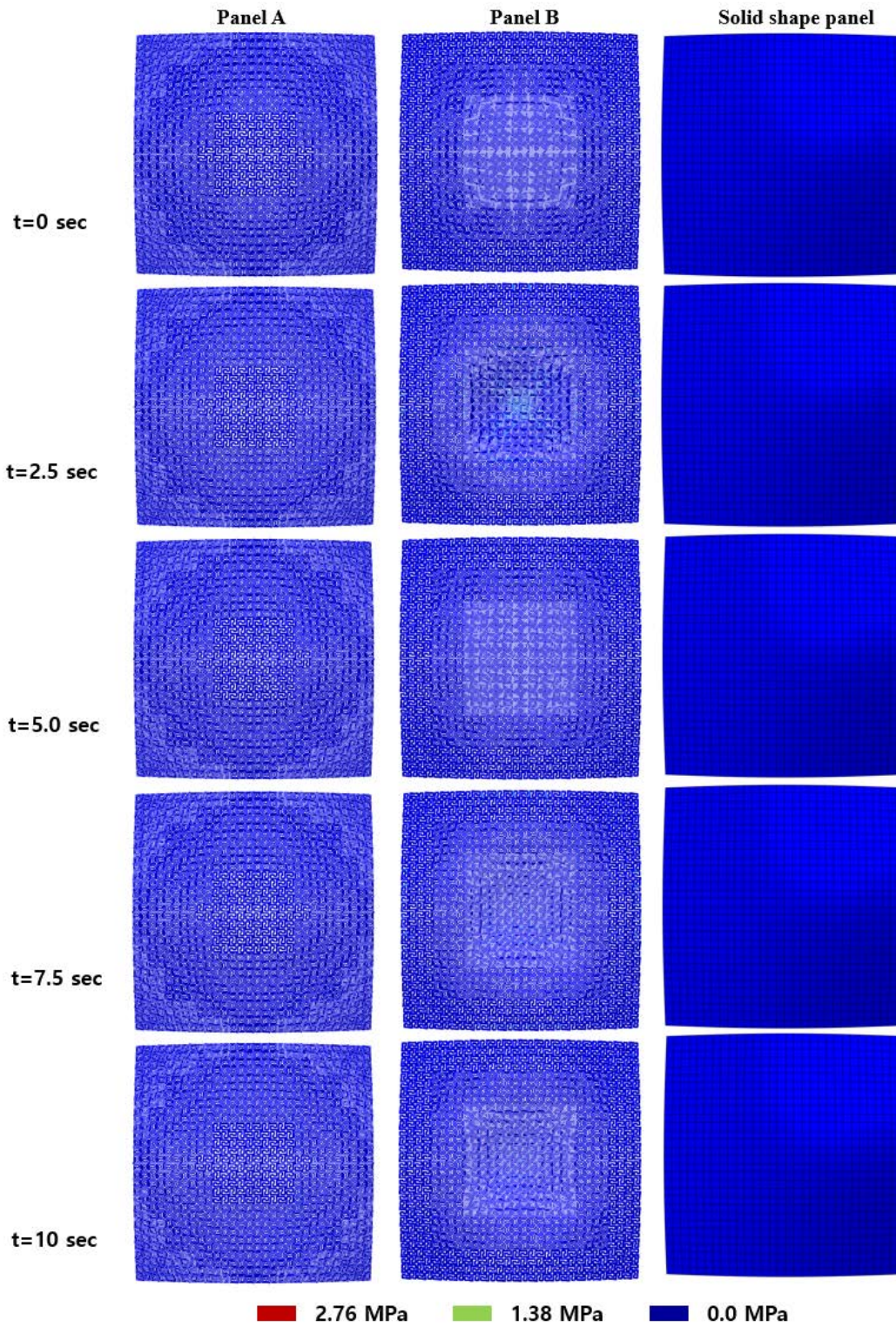
**Fig. A26** Strain dynamic analysis results of 101.6 mm pre-deformed shape panels for WS3.



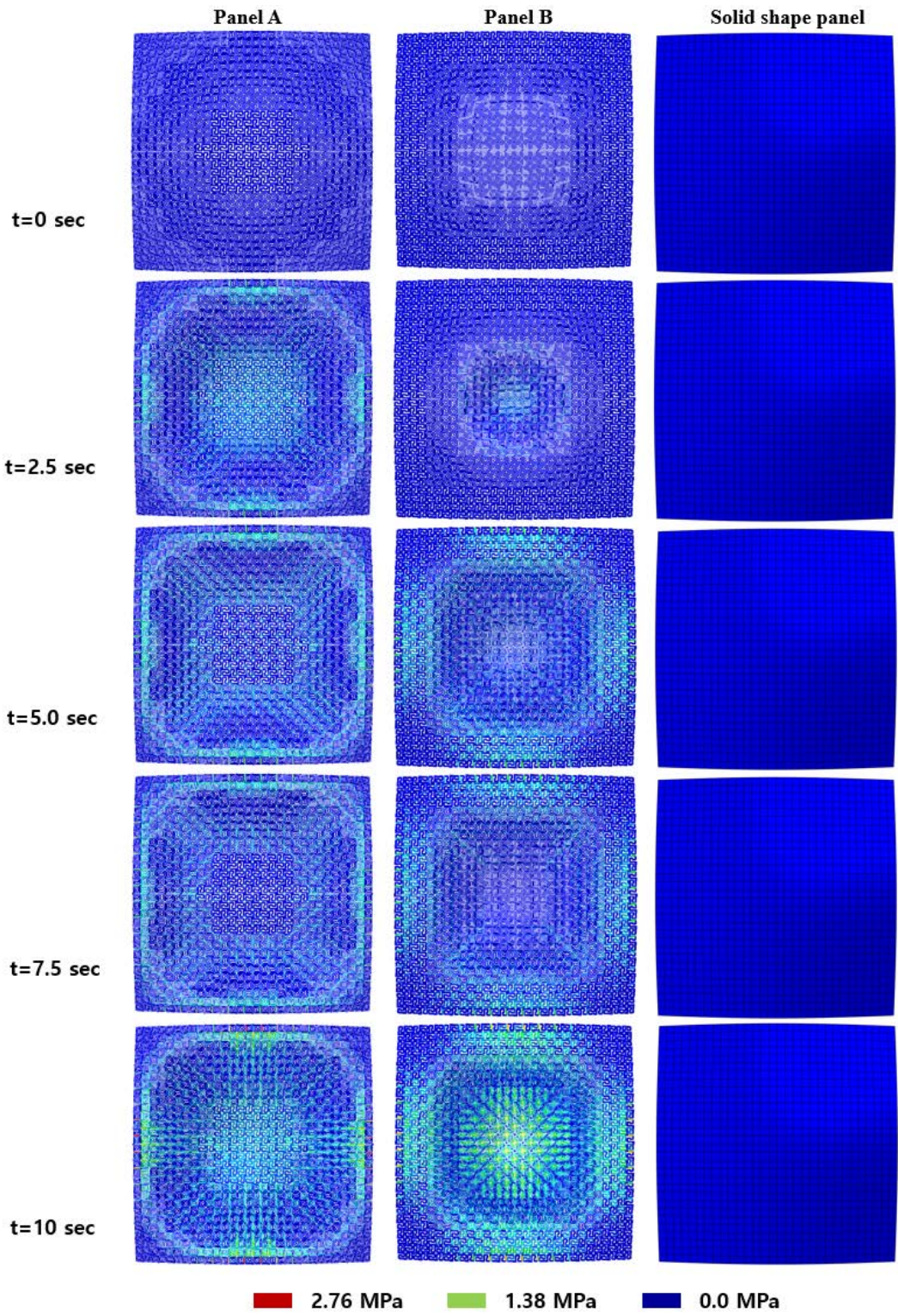
**Fig. A27** Strain dynamic analysis results of 203.2 mm pre-deformed shape panels for WS1.



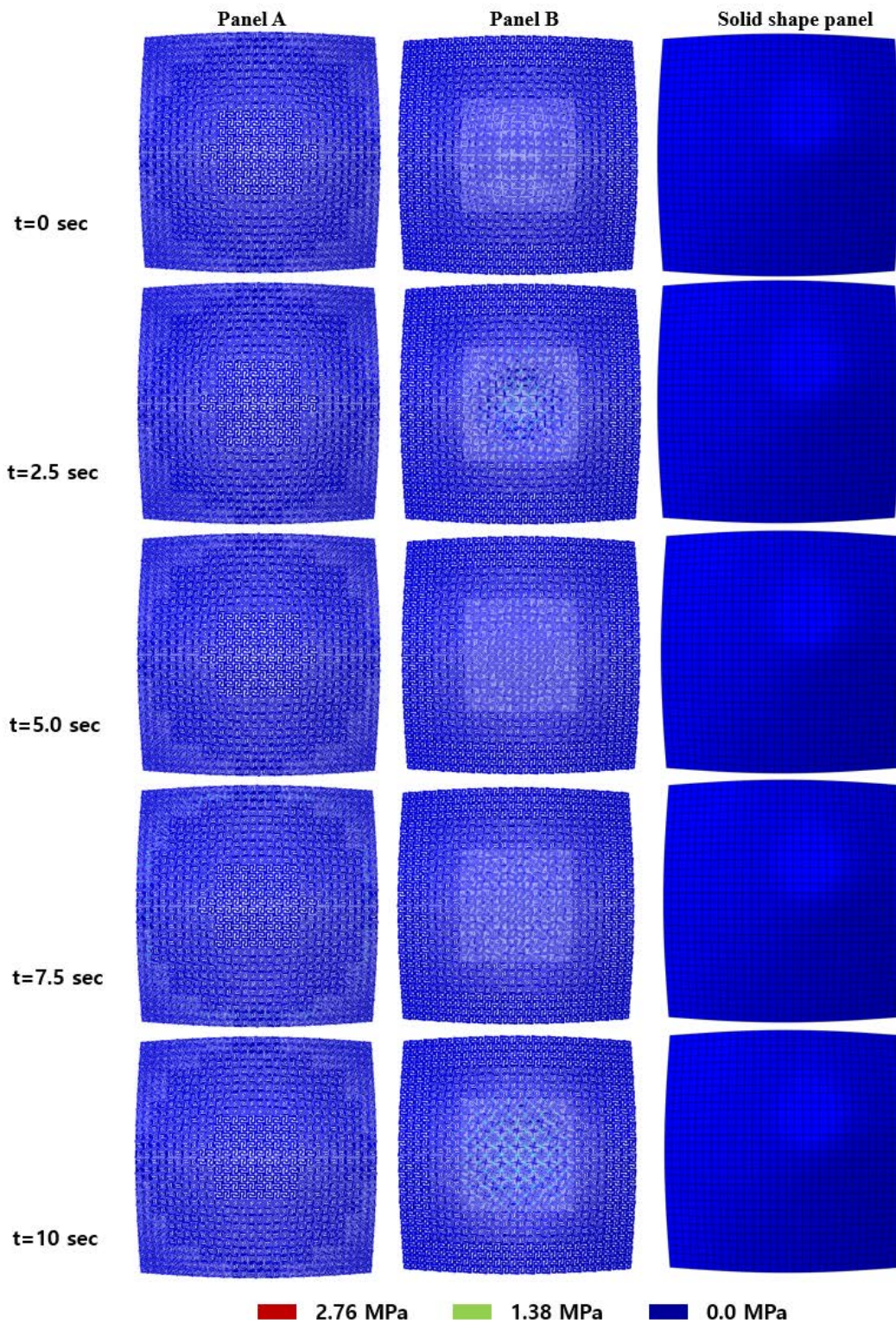
**Fig. A28** Strain dynamic analysis results of 203.2 mm pre-deformed shape panels for WS3.



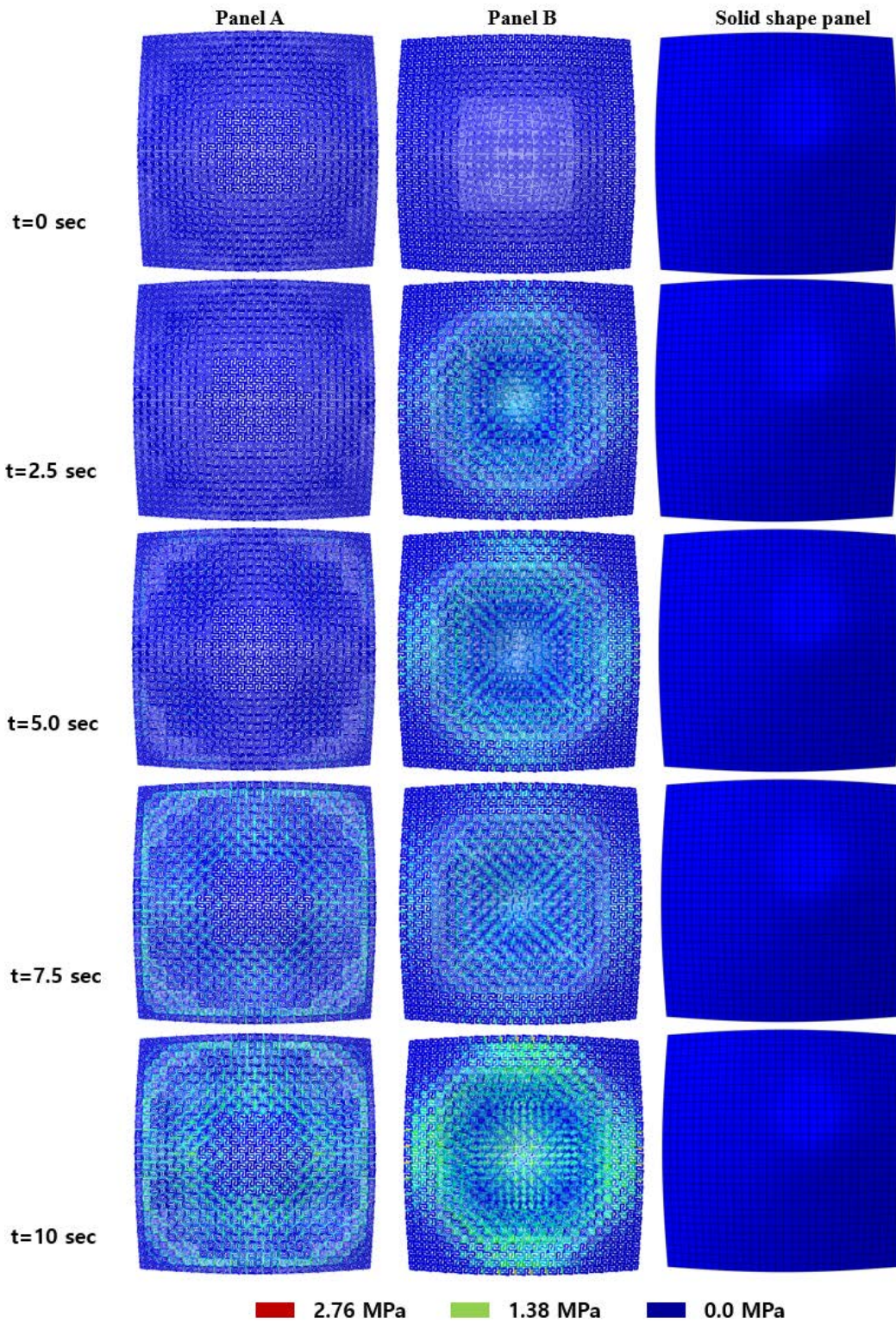
**Fig. A29** Stress dynamic analysis results of 50.8 mm pre-deformed shape panels for WS1.



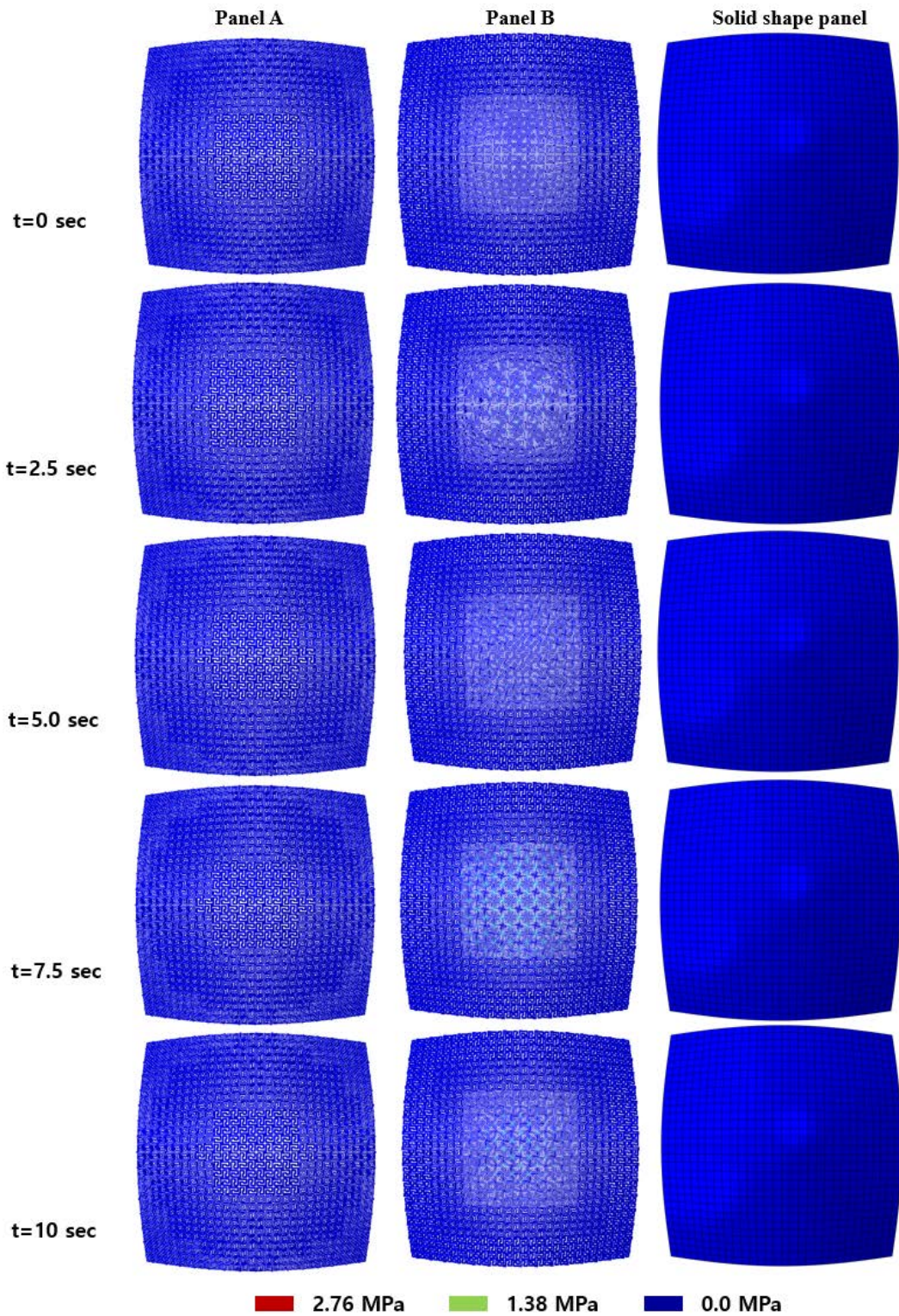
**Fig. A30** Stress dynamic analysis results of 50.8 mm pre-deformed shape panels for WS3.



**Fig. A31** Stress dynamic analysis results of 101.6 mm pre-deformed shape panels for WS1.



**Fig. A32** Stress dynamic analysis results of 101.6 mm pre-deformed shape panels for WS3.



**Fig. A33** Stress dynamic analysis results of 203.2 mm pre-deformed shape panels for WS1.

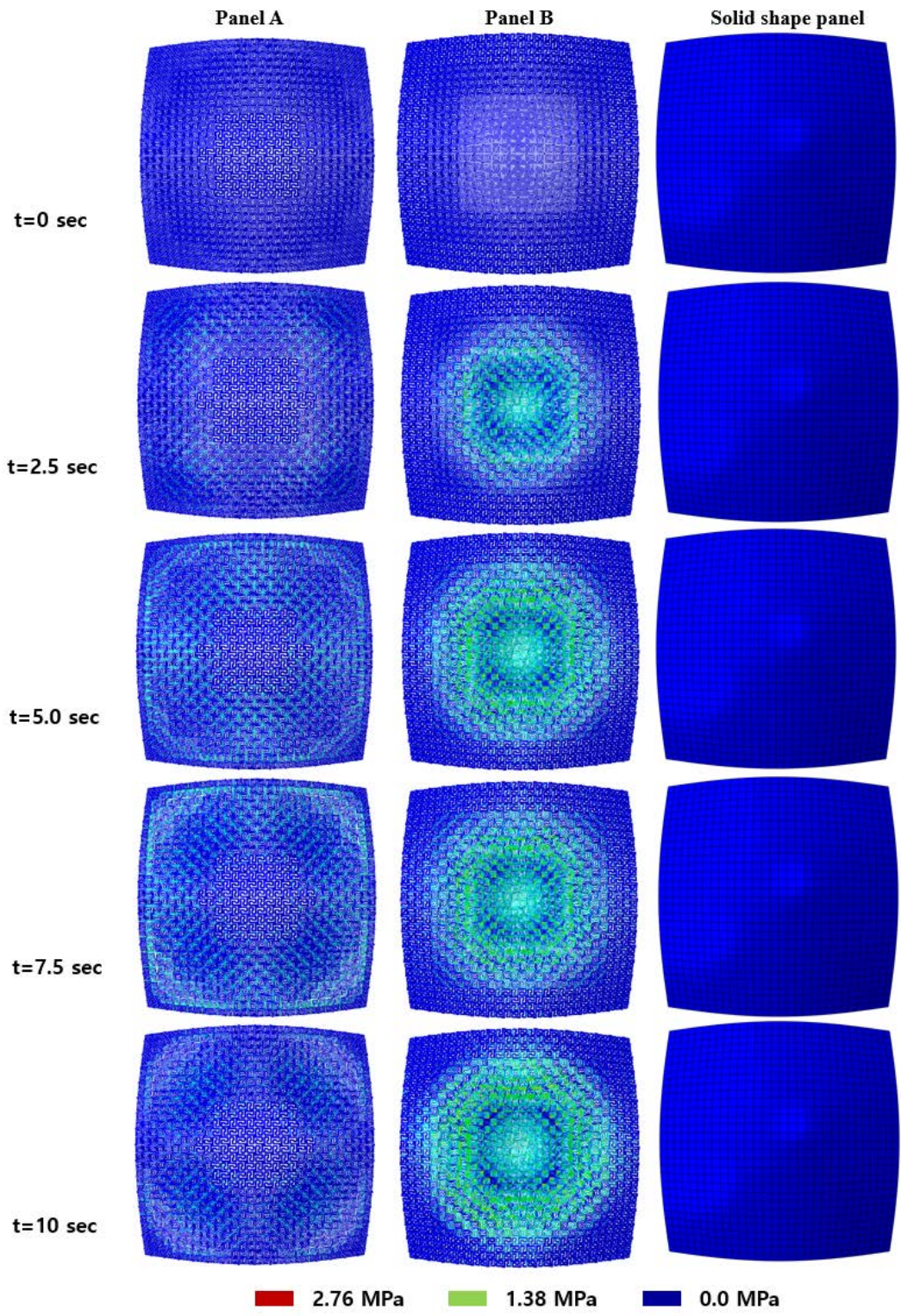


Fig. A34 Stress dynamic analysis results of 203.2 mm pre-deformed shape panels for WS3.