

As requested during the audit, ISRS of the center nodes of four walls in the auxiliary building are compared between ANSYS Coarse and ACS SASSI models. The selected four walls are presented in Figures 1 through 4.

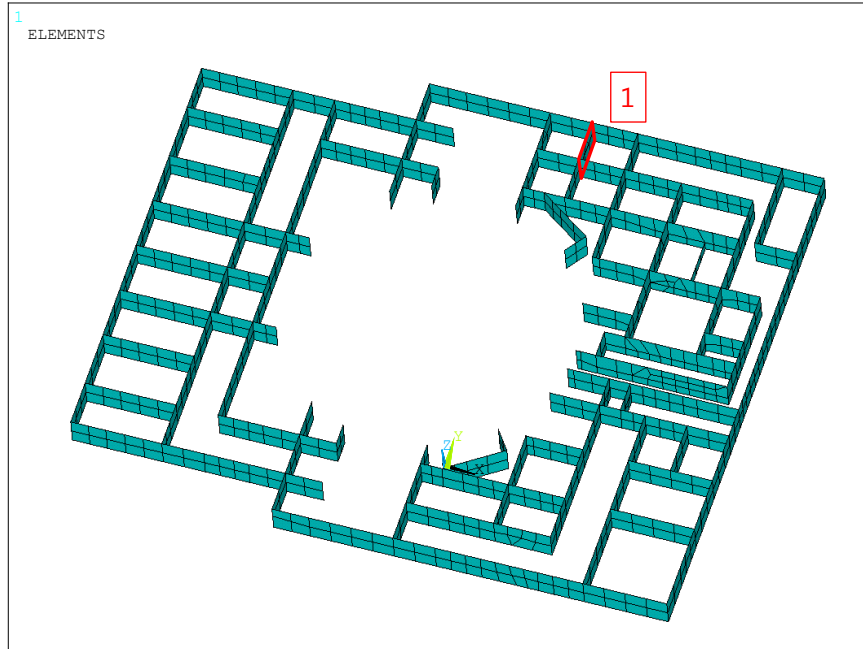


Figure 1. Selected Wall at Level 5 of AB for ISRS Comparison

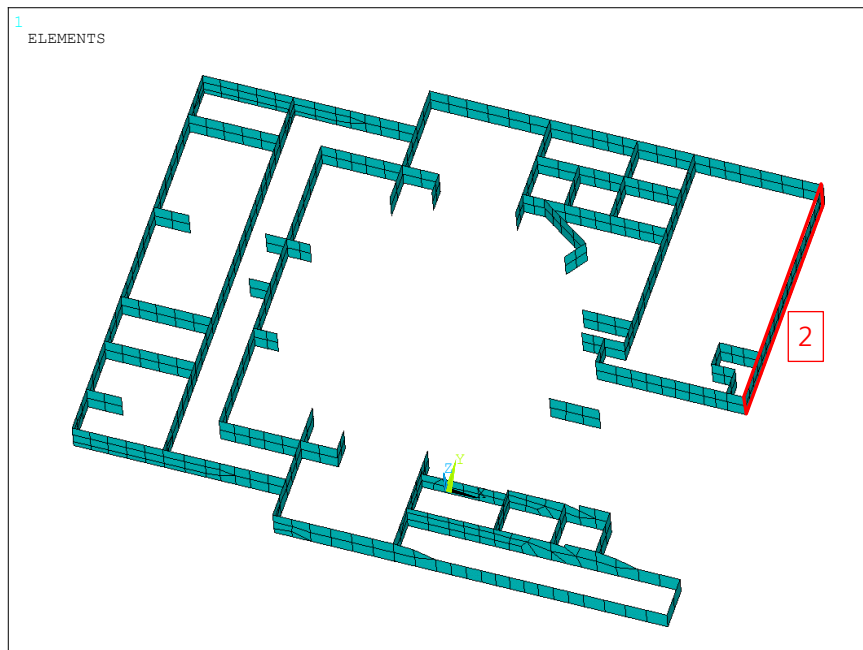


Figure 2. Selected Wall at Level 6 of AB for ISRS Comparison

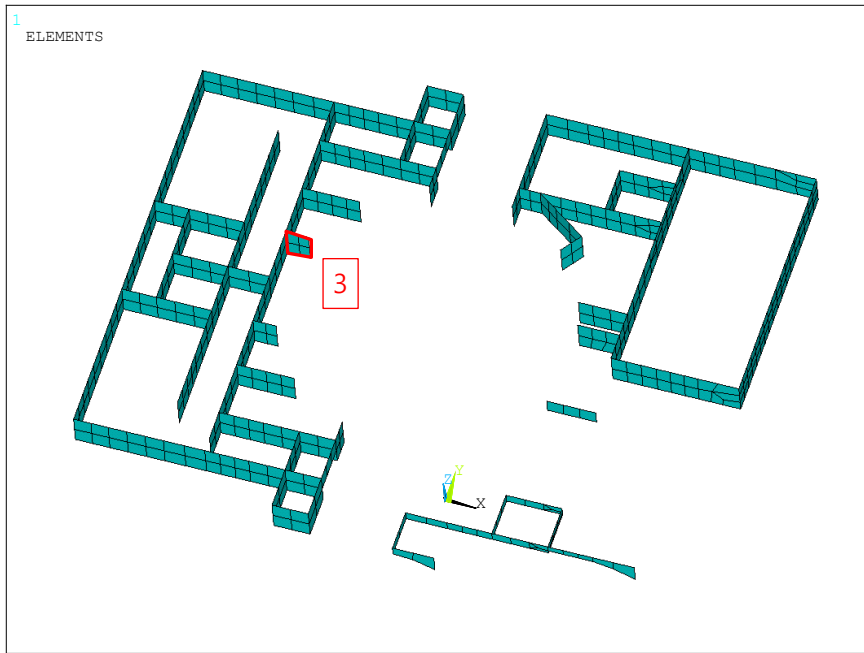


Figure 3. Selected Wall at Level 7 of AB for ISRS Comparison

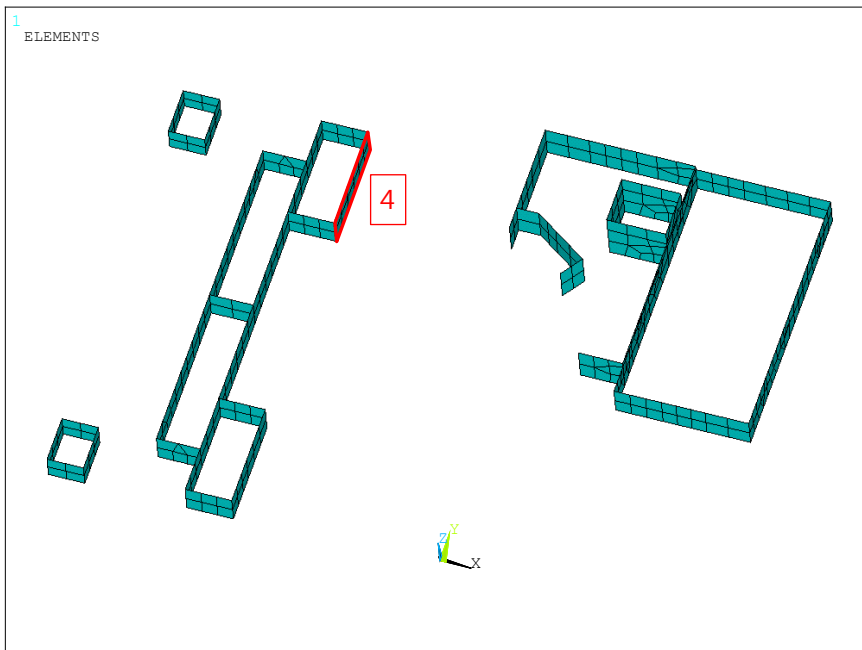


Figure 4. Selected Wall at Level 8 of AB for ISRS Comparison

The comparison results of ISRS are shown in following Figures 5 through 8.

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Figure 5. ISRS Comparison for No. 1 Wall at Level 5 of AB

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Figure 6. ISRS Comparison for No. 2 Wall at Level 6 of AB

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Figure 7. ISRS Comparison for No. 3 Wall at Level 7 of AB

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Figure 8. ISRS Comparison for No. 4 Wall at Level 8 of AB

As shown in the comparison figures above, the ISRS of No. 2, 3, 4 walls show close agreement between ANSYS coarse and ACS SASSI models. Although there are some differences between the spectral peaks of the ANSYS and ACS SASSI results, the differences are attributed to the equivalent damping with Rayleigh damping coefficients used in the ANSYS models to approximate the ACS SASSI damping ratios.

For the No. 1 wall, it is expected that the ISRS obtained from the ACS SASSI model are more reasonable because the acceleration value of the second peak in the X-directional ISRS of the ANSYS model corresponding to the out-of-plane direction is greater than the acceleration value of the first peak corresponding to the major natural frequency of the overall auxiliary building.