Appendix A

Load vs. Lateral Displacements for Wall Models Subjected to Monotonic Loading

The parametric study included observation of the lateral displacement of a wall as the applied load increased. The lateral displacement was then plotted versus the load for each of the walls. This data was used in determining the effect of a flexible foundation on the response of a shear wall. The results from the rigid foundation model are included on each plot in order to give a basis for comparison. The results indicate that as the load increases the lateral displacement increases. The lateral displacement is also shown to increase as the joist stiffness increases

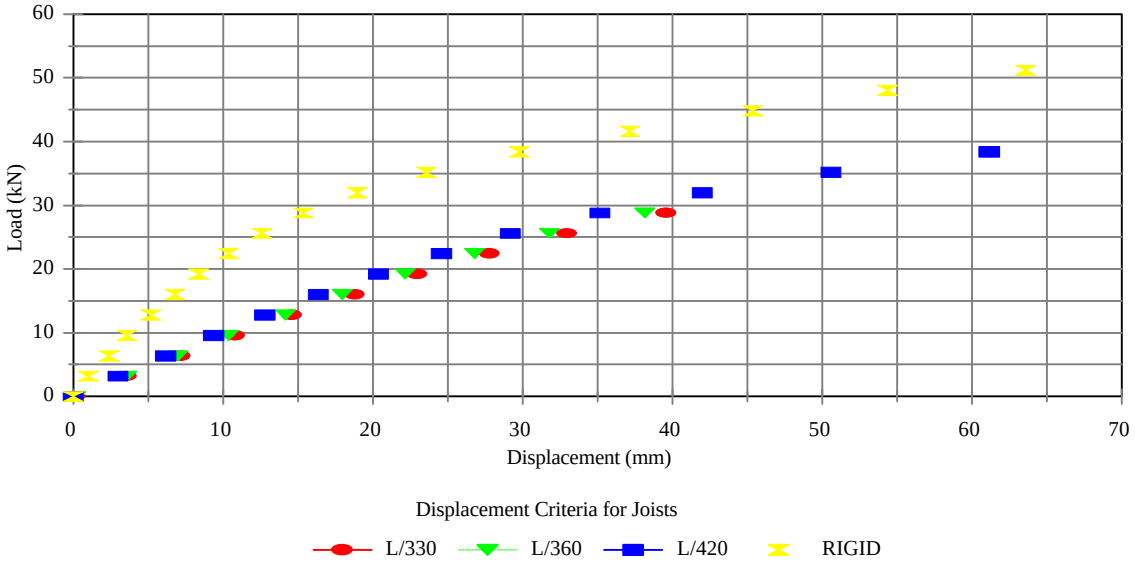

Figure A.1: Load Versus Lateral Displacement for Walls with 12.7 mm (0.5 in) Diameter Anchor Bolts

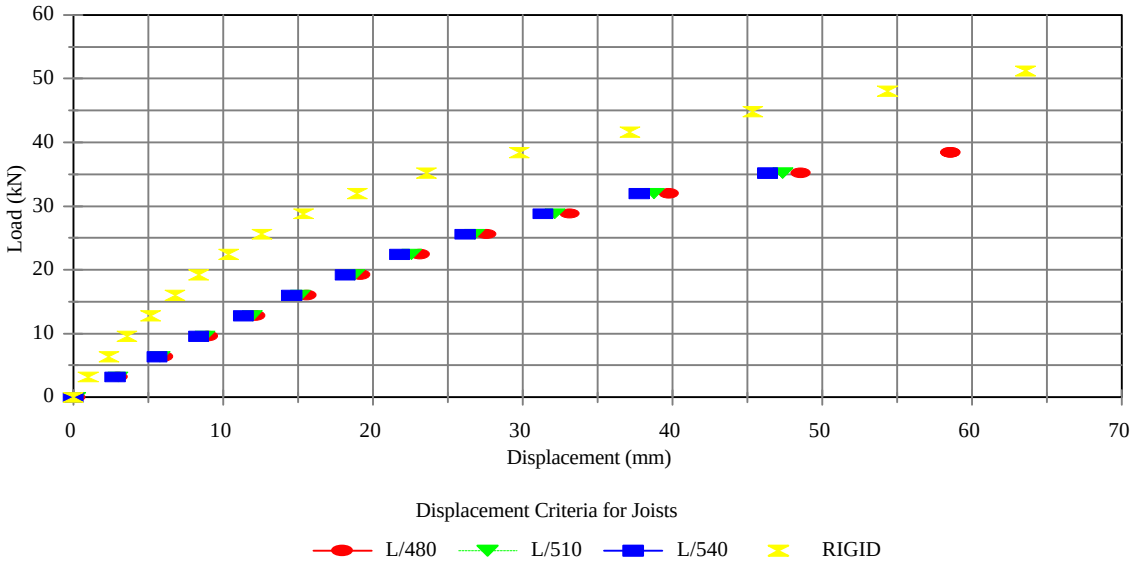

Figure A.2: Load Versus Lateral Displacement for Walls with 12.7 mm (0.5 in) Diameter Anchor Bolts

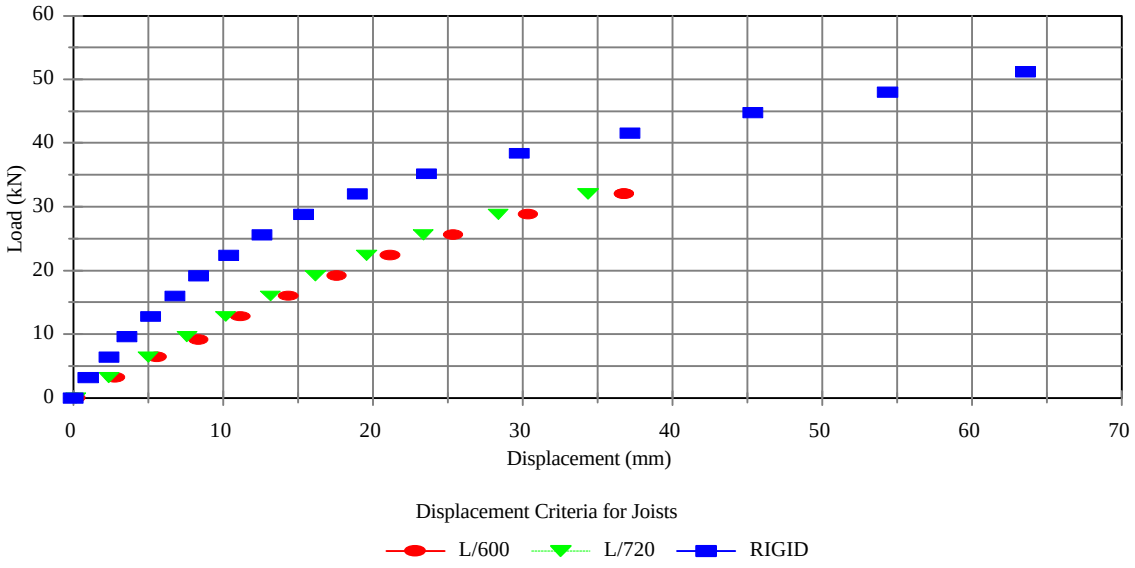

Figure A.3: Load Versus Lateral Displacement for Walls with 12.7 mm (0.5 in) Diameter Anchor Bolts

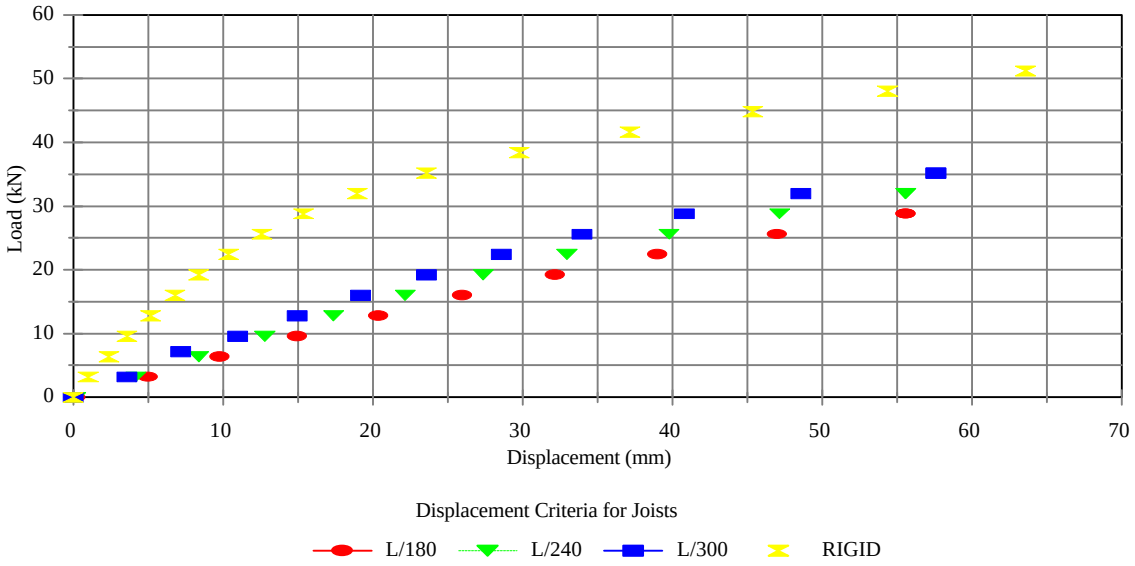

Figure A.4: Load Versus Lateral Displacement for Walls with 25.4 mm (1 in) Diameter Anchor Bolts

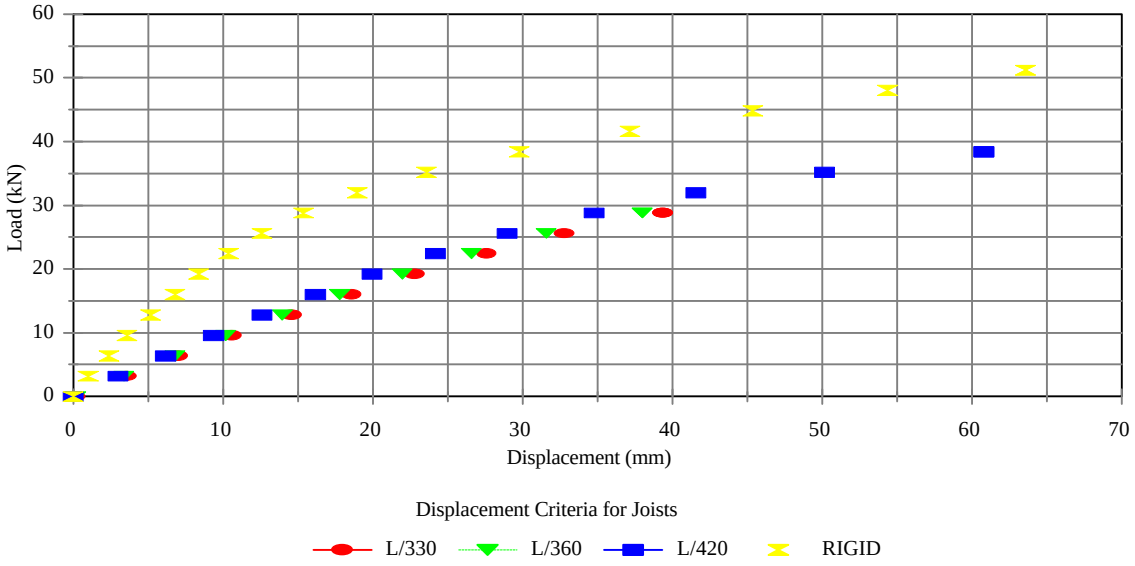

Figure A.5: Load Versus Lateral Displacement for Walls with 25.4 mm (1 in) Diameter Anchor Bolts

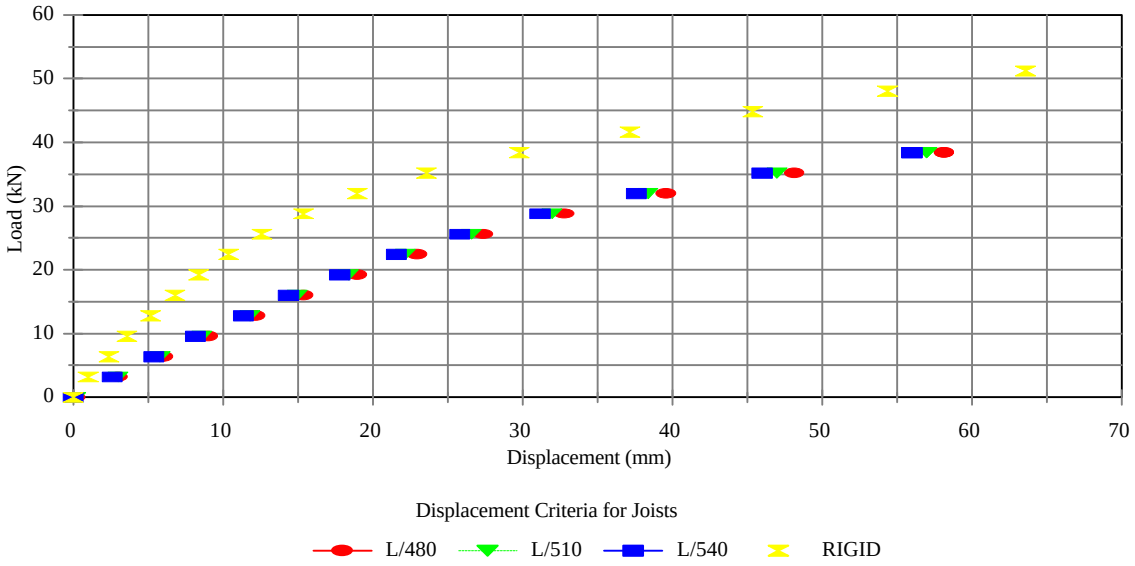

Figure A.6: Load Versus Lateral Displacement for Walls with 25.4 mm (1 in) Diameter Anchor Bolts

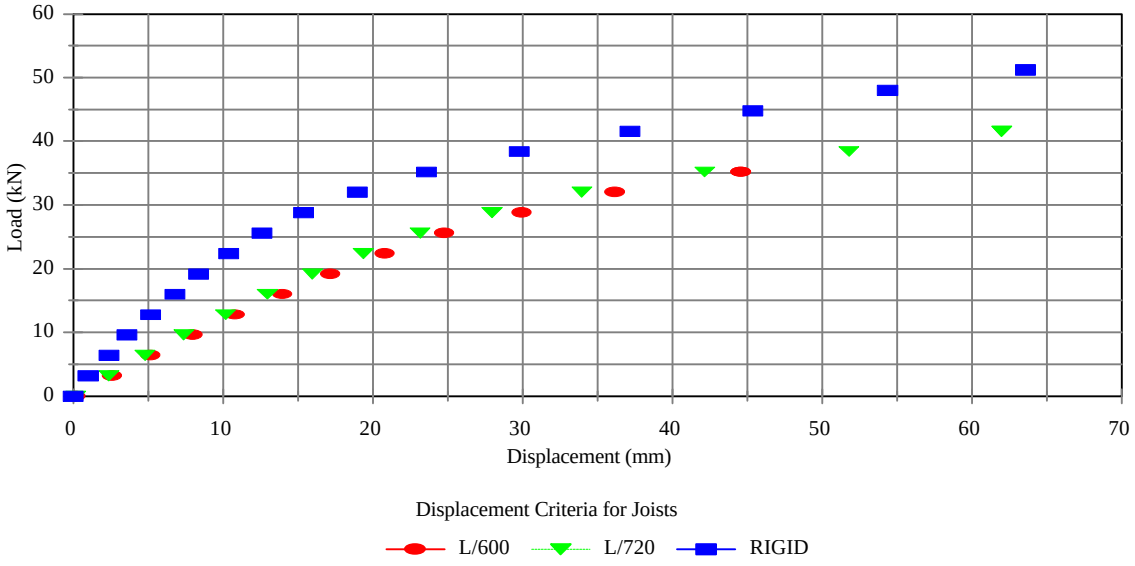

Figure A.7: Load Versus Lateral Displacement for Walls with 25.4 mm (1 in) Diameter Anchor Bolts

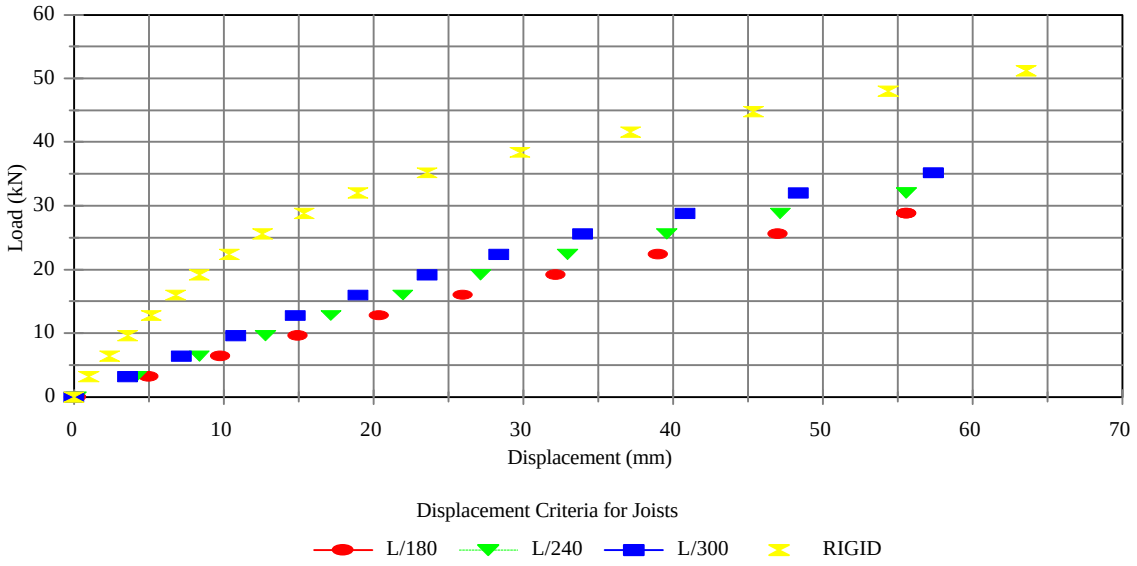

Figure A.8: Load Versus Lateral Displacement for Walls with a Rigid Anchorage Connection

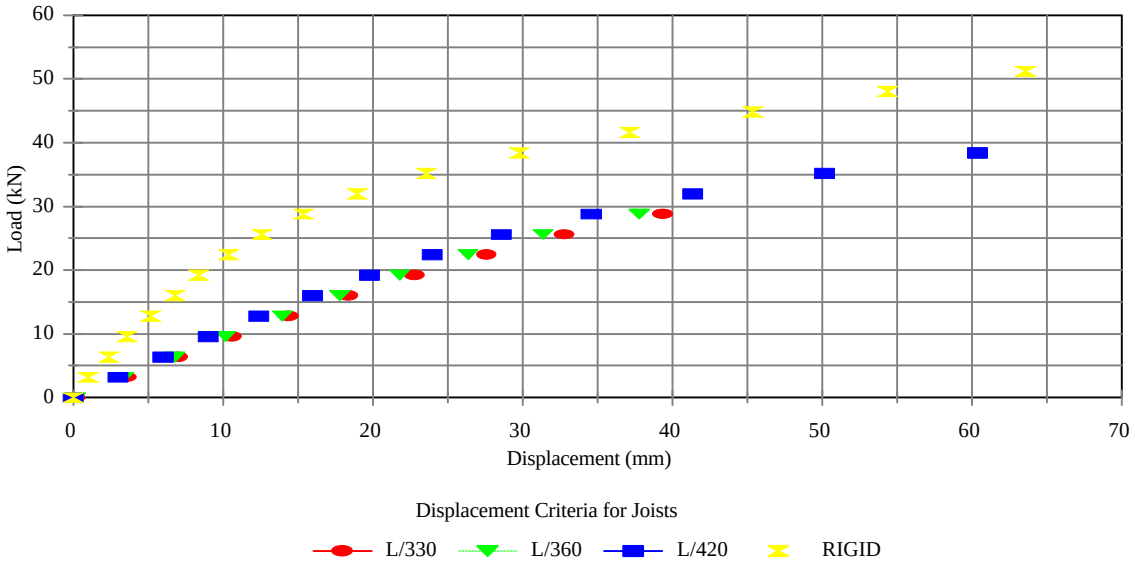

Figure A.9: Load Versus Lateral Displacement for Walls with a Rigid Anchorage Connection

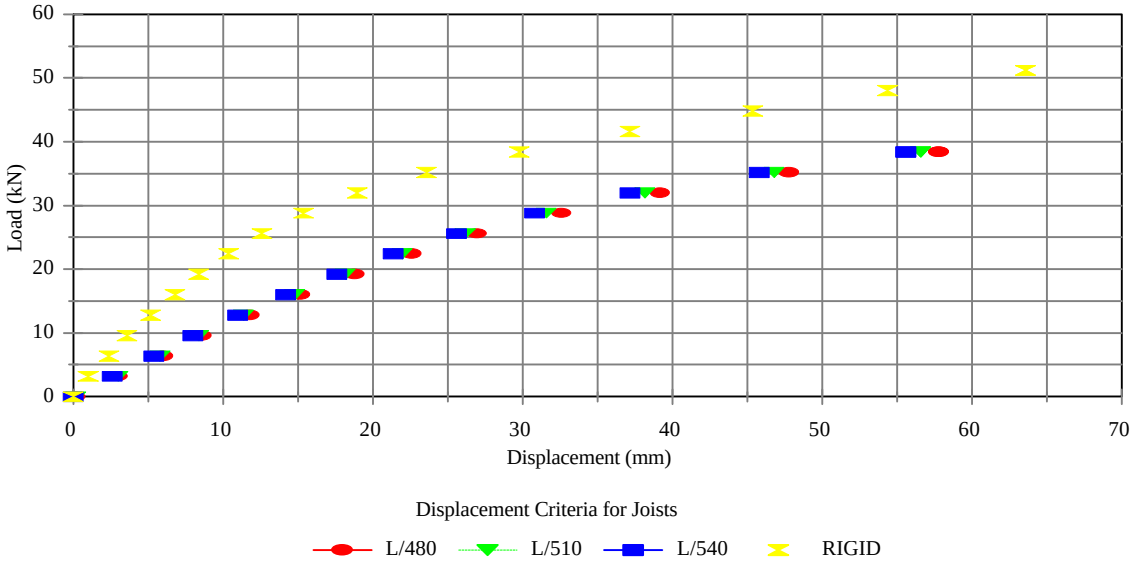

Figure A.10: Load Versus Lateral Displacement for Walls with a Rigid Anchorage Connection

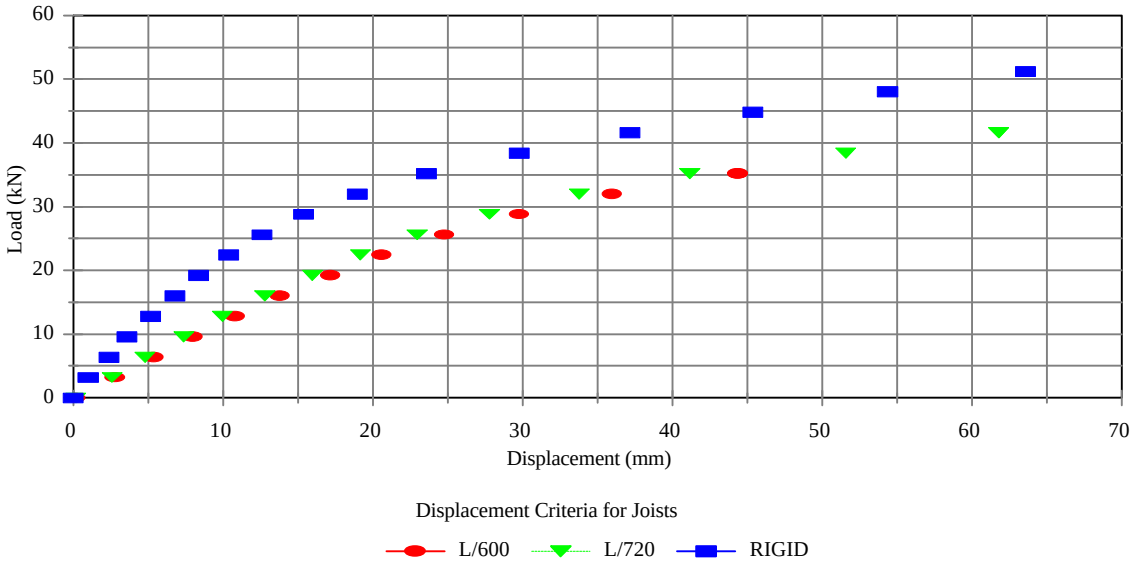

Figure A.11: Load Versus Lateral Displacement for Walls with a Rigid Anchorage Connection