

# Contents

	Page
1. General	
1.1 Application	1
1.2 Related code and standards	1
1.3 Technical terms	1
2. Planning for construction	
2.1 Quality control plan	6
2.1.1 Quality control system	
2.1.2 Flowchart of quality control	
2.1.3 Documents for construction plan	
2.1.4 Composition of documents for construction plan (Example)	
2.2 Items to be described in document for construction plan	10
2.2.1 Manufacturing of SI devices	
2.2.2 SI clearance	
2.2.3 Piping and electrical wiring	
2.2.4 Planning for temporary works	
2.2.5 Fireproofing	
2.2.6 Construction of footing for SI devices	
2.2.7 Inspection during construction and at completion of SI building	
2.2.8 Important items for construction plan	
2.3 Check sheets for construction plan	15
3. Confirmation of quality control for manufacturing of devices	
3.1 Control of manufacture of isolators	33
3.2 Control of manufacture of dampers	35
3.3 Control of manufacture of baseplates for SI devices	36
3.4 Control of manufacture of pipe joints	41
3.4.1 Pipe joints materials	
3.4.2 Space for pipe joint movement	
3.4.3 Fixed frames for pipe joints	
3.4.4 Product inspection	
3.4.5 Confirming of performance test	
4. Temporary works planning	
4.1 Temporary works planning	47
4.2 Lateral restraints	49
5. Construction of SI layer	
5.1 Acceptance inspection	51
5.1.1 Acceptance inspection for isolators and dampers	
5.1.2 Acceptance inspection for baseplates	
5.2 Construction of SI layer	54
5.2.1 Construction process of SI layer	
5.2.2 Construction process flow	
5.2.3 Bolting for SI devices to structure	
5.3 Storage and protection of SI devices	65
5.4 Filling method for area under baseplate	66
5.5 Safety management	71

5.6 Inspection during construction	72
5.6.1 Inspection and accuracy for SI devices and related parts	
5.6.2 Inspection of SI layer	
5.7 Inspection at completion of SI building	74
6. Setting of pipe joints	
6.1 Products	79
6.2 Setting	79
6.3 Important items concerning connections	79
7. Construction of mid-story SI system buildings	
7.1 Outline	80
7.2 Important items	81
7.3 Fireproofing of SI layer	83
8. Appendix	
8.1 Inspection of devices and performance tests for SI devices	85
8.2 Quality control and performance test of LRBs	86
8.3 Quality control and performance test of sliders	90
8.3.1 Quality control and performance test of slider with elastomer	
8.3.2 Quality control and performance test of spherical-surface slider	
8.4 Quality control and performance test of dampers	96
8.4.1 Quality control and performance test of U-shape damper	
8.4.2 Quality control and performance test of oil damper	
8.5 Summary report for SI construction	100