ETABS[®] 2013 Version 13.1.0 Release Notes

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Release Date: 2013-07-10

This file lists all changes made to ETABS since the previous version. **Most changes do not affect most users.** Incidents marked with an asterisk (*) in the first column of the tables below are more significant and are included in the ReadMe file.

Changes from v13.0.0 (Released 2013-04-17)

User Interface

Enhancements Implemented

*	Incident	Description
*	53254	An enhancement has been implemented to allow customization of the keyboard shortcuts for the
		various menu items. These keyboard shortcuts and the toolbar settings are saved in the local user
		folder so that settings are maintained with each use of the program.

Modeling

Enhancements Implemented

*	Incident	Description
	53076	Frame section properties have been enhanced to separate steel shapes from concrete shapes. The
		following steel shapes are now available: Tee, Angle, Box/Tube, Pipe, Channel, Double Angle,
		Double Channel, and I. The following concrete shapes, including rebar, are now available: Tee, L
		Shape, Tube, Pipe, and Cross.
	54762	An enhancement was made to the Load Case Data form in which a note describing the units used
		for the scale factor item in the Loads Assigned table was added. The scale factor units can vary
		depending on whether the assigned load is a load pattern, acceleration or other type of load.
	55205	An enhancement has been made to provide users separate controls in the mass source definition for
		including or excluding self-mass from elements and added masses, in addition to the use of load
		patterns. Previously self-mass and added mass were considered together.

Loading

Enhancements Implemented

*	Incident	Description
	53387	Repeated warnings messages that were previously displayed for building heights exceeding certain
	53390	code limits for automated wind loading have been removed and replaced with a single warning
		message.
*	53532	Automated wind loading has been added according to the Australian and New Zealand code
		AS/NZS 1170.2-2011.
	54433	An enhancement was added for automated wind loading using the diaphragm-extents option for the
		ASCE 7-02, ASCE 7-05 and ASCE 7-10 codes that now allows automatic determination of the
		wind pressure coefficients (windward and leeward) based on the building size.

Frame Design Enhancements Implemented

*	Incident	Description
	34602	Steel frame design using the "AISC 360-05" and "AISC 360-10" codes have been enhanced to use the minimum D/C ratio from the two alternative AISC code sections H1.1 and H1.3 for the case of a doubly symmetric section with axial compression and major axis bending moment but with no minor axis bending moment. Previously for these conditions the AISC section H1.3 was always used, which can be over-conservative. The use of section H1.1 is not mandatory. For normal design or design-checks with a D/C ratio limit of 1.0, this enhancement has no effect. However this enhancement may affect some acceptability checks for performance-based design with a target D/C ratio greater than 1.0.
	42783	An enhancement is added for steel frame design using the AISC 360-10 code which provides a option to allow Notional Load cases to be included in design combinations with wind, seismic and response spectrum cases.
*	53544	Concrete frame design and shear wall design have been added for the Hong Kong CP 2013 code.

Database Tables

Enhancements Implemented

*	Incident	Description
	53732	New database tables have been added that provide pier and spandrel section property information.
	54059	These tables are equivalent to those that were present in ETABS v9.

External Import/Export Enhancements Implemented

*	Incident	Description
	52919	The import and export of IFC files has been enhanced as follows: (1) When duplicate frame
		elements are detected during the import of an IFC file, a warning is issued. If there is both a
		structural view frame object and its architectural equivalent at the same location in the IFC file, only
		the structural object is imported. (2) Improved handling of end releases, offsets, and loads for IFC
		frame members having orientation reversed of the ETABS default. (3) Assignment of members to
		story levels at export. (4) File schema updated to IFC4 at import and export. The 2x2, 2x3, 2x4, and
		IFC4RC4 schemas can also be imported; later versions of IFC4 are not currently supported. (5)
		Unique story names are created in ETABS for duplicate story names in the IFC file with different
		elevations. (6) The import of arc slabs is now supported. (7) The log file has been expanded and
		enhanced recording errors, warnings, and messages during import and export.

Documentation

Enhancements Implemented

*	Incident	Description
	18881	The Lateral Loads Manual has been updated to describe the use of Parapet Wind pressure for the
		ASCE 7-02 and ACSCE 7-05 codes. This is a change to the documentation only.

User Interface and Display Incidents Resolved

*	Incident	Description
	40795	An incident was resolved in which it was not possible to step through the defined load patterns
		using the back/forward buttons in the status bar when displaying loads on the model.
	53194	An incident was resolved where the various code-based auto-lateral loads could not be selected
		when defining "Wind" and "Quake" load patterns when the Turkish language setting was used on
		the computer system.
	53419	An incident was resolved in which disabled forms (when the model is locked) containing a grid of
		data could not be scrolled in order to view all of the data in the grid.
	53474	An incident was resolved in which the snap to grid intersections did not always work for certain
		gridline arrangements.
	53523	An incident was resolved in which the tooltips that are shown when hovering over objects in a
		model window would sometimes show the same information twice in a single tooltip. This was a
	5 20.62	display issue only and did not affect results.
	53963	An incident was resolved in which the fillet weld symbol was shown in the incorrect orientation on
	72 0.60	some of the steel connection preferences and overwrites diagrams.
	53968	An incident was resolved in which the auto-seismic period calculation method did not save after
		changing it in the form. It would instead reset to Program Calculated and the results would reflect
	54036	this. This affected only the ASCE 7-05 and ASCE 7-10 seismic loading codes.
	34036	An incident was resolved where pasting data into the Grid System Data form to define the grid locations did not always work as expected. In addition, pasted data was restricted to the number of
		rows present on the form, not allowing additional rows to be added.
	54278	An incident was resolved where deleting points from the multilinear force-displacement data for a
	34276	multilinear link element corrupted the force-displacement data.
	54578	An incident was resolved where some very large data files may not be able to be reopened due to
	34376	insufficient memory.
	54688	An incident was resolved where a single click in a plan view was sometimes selecting multiple
	2.000	objects if an alternate grid system was selected in the grid drop-down box.
	54854	An incident was resolved where the coordinates shown on the status bar were sometimes off by
		small amounts. This was a snapping issue which has been corrected.
	55008	An incident was resolved where sorting of the general grids by the Y1, X2, and Y2 coordinates was
		enabled inadvertently. General grids should only be sortable by ID, not by coordinate. No results
		were affected.
	55062	An incident was resolved where opening a model from an older version of ETABS (v9.7.4 or
		earlier) that contained certain frame general sections could cause the drawing of new frame
		members to fail.
	55282	An incident was resolved where the hysteresis type for multilinear plastic link properties was
		always displayed as kinematic whenever the property definition form was opened. Whatever
		hysteresis type was chosen by the user would be used for analysis when the OK button on the form
		was clicked, and the results agreed with the model. The type used could be seen in the text data file
		(*.\$ET or *.E2K).

Graphics and Drafting *Incidents Resolved*

*	Incident	Description
	29394	An incident has been resolved where drawing walls over multiple stories would sometimes result in
		an exception (runtime error).
	53086	An incident was resolved where the extruded view of circular arcs was being displayed as a full
		circle or was otherwise incorrectly displayed in cases where the arc was not in a horizontal plane.
	53500	An incident was resolved in which replication by story of walls would sometimes result in the
		graphics showing diagonal lines on the walls. This was a graphics issue only.

*	Incident	Description
	53362	An incident was resolved in which the reshape tool was not using the parallel to X or Y drawing control types. In certain cases, using the reshape tool to merge two area object points caused the area object to be removed.
	53720	An incident was resolved where showing extruded areas would sometimes generate an incorrect display for certain models. This was a display issue only.
	53876	An incident was resolved where shell objects would sometimes disappear from view when zooming in a model window with soil-pressure results displayed. This was a graphical issue only. No results were affected.
	53944	An incident has been resolved in which the extruded view of some slabs with curved edges did not display. This was a display issue only.
	54053	An incident was resolved in which the deck span indicator drawn on the model was sometimes very large.
	54265	An incident was resolved in which the scaling of pier force diagrams was sometimes incorrect when using automatic scaling. This was a display issue only and did not affect results.
	54518	An incident was resolved in which toggling the architectural dimensioning option did not change the formatting of the dimension line text. This text always displayed in architectural format when using U.S. units. In addition, an option has been added that provides control of the precision of the architectural dimensioning.
	54908	An incident was resolved in which unchecking the Object Fill view option did not turn off the fill for walls.
	55520	An incident was resolved where display of frame uniform load was incorrect on curved frames.

Modeling Incidents Resolved

*	Incident	Description
	53125	An incident was resolved where a curved frame object may have an incorrect geometry or location depending upon how it was drawn or edited.
	53452	An incident was resolved where the building of models using an imported architectural layer was not always working correctly, particularly by snapping to the wrong locations while drawing objects. The errors, when they occurred, were obvious.
	53512	An incident was resolved in which using the divide frames or divide shells commands while the similar stories or all stories option was turned on would generate additional objects at the other stories.
*	53758	An incident was resolved where using the Edit > Frame > Divide Frames command would result in applied point and distributed loads on frames being duplicated in each of the new segments. This modeling error is limited to editing done in V13.0.0 only.
	53811	An incident was resolved where the message "Error getting display units data" may appear when assigning a second auto PMM steel hinge to a frame object.
	53906	An incident was resolved in which opening a model that contained certain types of Section Designer sections would cause an error when trying to save the model.
	53940	An incident was resolved in which the reshape handles for editing walls were sometimes too large or too small.
	53981	An incident was resolved in which objects on other stories were not being modified when using the reshape tool with the All Stories or Similar Stories option selected. Only the objects on the single floor selected were being modified.
	54730	An incident was resolved where replication of wall objects in some instances would add unnecessary lines to the display. This was a display issue only.
	54943	An incident was resolved in which using the Edit > Edit Shells > Divide Shells command with the option Intersections with Selected Frame Objects would sometimes generate duplicate or new shells where not expected.

Section Designer Incidents Resolved

*	Incident	Description
*	52881	An incident was resolved for Section Designer where the section properties were sometimes calculated incorrectly for a filled pipe due to an internal tolerance issue. When this occurred the error was obvious and the section properties were usually zero.
	53582	An incident was resolved in the section designer in which setting the 'Mirror About 2' value to Yes for a channel section would sometimes cause the Section Designer Section Property Data form to not accept the OK button and therefore the section couldn't be saved.
	53794	An incident was resolved where certain ETABS v9 model files containing Section Designer frame sections could not be opened, resulting in an error message. This occurred when some edges of polygons in the Section Designer sections did not have reinforcement specified. This condition is now handled.
	54170	An incident was resolved where a particular ETABS v9 model would not open. This error was limited to the presence of Section Designer sections which included pie or pie-arc shapes with negative subtended angles.
	54637	An incident was resolved where some Section Designer sections would give a subscript out of range error when saving the model file. This was a rare case and was related to a section shape in a Section Designer section being deleted and getting corrupted.
	55061	An incident was resolved where doubly symmetric concrete sections with symmetrical reinforcement were not producing identical yield strength in major and minor directions for use in frame hinges. Also, the moment curvature diagrams were not identical along the line of symmetry. This did not affect the PMM interaction surfaces used for design.
	55077	An incident was resolved in which the concrete frame design results tables would not be filled if the design section had been overwritten. This was an issue for all design codes. The design results themselves were correct.

Loading Incidents Resolved

*	Incident	Description
	53301	For the ASCE 7-10 Seismic Drift case, minimum base shear was previously being enforced
		according to ASCE 7-10 clause 12.8.5. This requirement is no longer enforced as per the exception
		of ASCE 7-10 clause 12.8.6.1.
*	53304	An incident was resolved where the additional eccentricity specified for seismic loads (equivalent
		static or response spectrum) was not being correctly applied to the loads at joints that were part of a
		semi-rigid diaphragm. The primary translational loads were correctly applied. Seismic loads applied
		to rigid diaphragms were not affected.
	55194	An incident was resolved for Eurocode8-2004 response spectrum function and the auto-seismic load
		pattern where function was not being saved or was saved with zero parameters when country type
		was set to "Other".
	55477	An incident is resolved for Turkish Seismic Code response spectrum function where selecting
		Seismic Zone 2 was using the A0 factor as 0.4 instead of 0.3. This always produced conservative
		results.

Analysis Incidents Resolved

*	Incident	Description
	52738	An incident was resolved where "Do Not Run" option was not enforced correctly for Sequential
		Analysis case. No results were affected.
	53226	An incident was resolved where the modal directional factors were not calculated correctly for structures where either (1) the centers of mass for all rigid diaphragms were not located in a single vertical line, or (2) some of the joints with mass were not included in rigid diaphragm constraints. The directional factors are now calculated correctly regardless of the location of the diaphragms, but

*	Incident	Description
		only mass at joints included in rigid diaphragms will be considered. Note that this excludes semi- rigid diaphragms. Including mass that is not part of a rigid diaphragm is not defined for directional factors, and can lead to an overestimation of the translational factor and an underestimation of the torsional factor. Now, the sum of the directional factors will be less than unity when some of the mass exists at joints that are not included in rigid diaphragm constraints.
	53343	An incident was resolved where the use of modal damping interpolated by period in a response-spectrum or modal time-history load case was actually using interpolation by frequency between the specified values. This means that the damping values were correct at the specified period values, but the interpolation between the specified values was proportional to $f = 1/T$, rather than to T. Here T is period and f is cyclic frequency. The effect of this error upon the results was generally insignificant.
	53570	An incident was resolved where property modifiers assigned via Shell Section definitions were not also being applied to the internal beams added (when needed) to walls for the purpose of providing continuity with frame elements. This did not affect property modifiers assigned directly to the walls, only those assigned to the wall property. The effect of this error was generally insignificant.
	53752	An incident was resolved where groups containing area objects that were auto-meshed and that also had edge constraints assigned did not always include the effect of the edge constraints when used in a nonlinear static staged-construction load case. This could have affected the local connectivity of the area objects, but overall equilibrium was maintained.
*	54135	An incident was resolved where the out-of-plane (plate bending) behavior of the layered shell was not correct for the case where a frame object was connected to one of the joints of the shell. The reason for this is that ETABS extends the frame object into the shell to establish good continuity, but this behavior was incorrectly implemented for the layered shell. The homogeneous thin and thick shell objects were behaving correctly.
*	54165	An incident was resolved where the tabular output for story mass was incorrect for models with multiple towers. This was only a reporting issue.
*	54634	An incident was resolved where the results for structures modeled as multi-tower were obviously inconsistent and incorrect. This was due to duplication of some members in the analysis model.
	55109	An incident was resolved where the assignment to NOT apply Edge Constraints was not being checked for wall type area objects. This meant that edge constraints were always being applied to wall objects that had mismatched meshes.

Frame Design Incidents Resolved

*	Incident	Description
	26139	An incident was resolved in which steel frame design generates very large demand/capacity ratios when designing a nonprismatic section consisting of a standard steel section and a section designer section.
	52285	An incident was resolved where the design type automatically detected for staged-construction load cases was always "Other". This has now been corrected. This could affect the proportion of shears and moments assigned to sway and non-sway cases when design combinations included staged construction cases.
	53085	An incident was resolved where the building of models using an imported architectural layer was not working correctly. The errors when they occurred were obvious.
	53207	An incident was resolved for concrete beam design where the table columns for reporting minimum rebar and required rebar were switched. This was only a reporting issue and design results were not affected. The affected codes are ACI 318-08, ACI 318-11, CSA A23.3-04, Eurocode 2-2004, Italian NTC 2008, Mexican RCD 2004, NZS 3101-06 and Turkish TS 500-2000.
	53624	An incident was resolved for concrete frame design using the Italian NTC 2008 code where the design report for columns was indicating "Seismic Load?" as "False" when the load combination contained seismic loading. This was a reporting issue only and the design results were not affected.

*	Incident	Description
	54449	An incident was resolved where the Joist Design could be incorrect. When this occurred, the results were obviously incorrect as the capacity was shown to be infinite. The error was limited to design combinations that included multistep load cases.
	54808	An incident was resolved for concrete frame design using the NZS 3101-06 code where the value for As,min was set to 0.25 * (sqrt(f'c)/fy) * Ac. Now As,min is set to the larger of 0.25 * (sqrt(f'c)/fy) * Ac and (1.4/fy)*Ac per the code (NZS 9.3.8.2.1). This change only affects beams which are lightly loaded and which use low-strength concrete for which the latter limit governs. This error has minor significance.
	54906	An incident has been resolved for steel frame design using the Eurocode 3-2005 code in which the effective section properties of Class 4 Double Angle sections were incorrect under certain stress conditions. The stress condition occurred when (a) the minor axis moment was significant, (b) the stress at one of the tips of the flanges was identically zero and the stress at the other tip was compression under axial load plus minor-axis bending only. The error did not affect Double Angle sections for classes 1, 2, and 3.
	55177	An incident was resolved for concrete frame design where the reported Minimum eccentricity M2 and M3 were switched in Design Report. This affected all codes. This was only a reporting issue. The design was correct and no results were affected.
	55277	An incident was resolved for concrete frame design using the EC 2-2004 and Italian NTC 2008 codes where the minimum rebar requirement for beams (EC2 9.2.1.1(1)) was not being enforced.
	55351	An incident was resolved for concrete frame design using the Italian NTC 2008 code where modulus of elasticity for concrete was being recalculated based on the equation "Ec = 100000 / (2.2 + 34.7 / fck)" instead of using the value specified for the material property. Now the value specified for the material will be used. This error was insignificant for practical design purposes.
	55366	An incident was resolved where "Super DL + Live Load" status in Deflection report was not correctly handled in steel frame design when the deflection report was created. This was just a reporting error and design results were not affected. Program was comparing the "Super DL + Live Load" with Live Load Deflection Limit.
	55545	An incident was resolved for concrete frame design using the TS 500-2000 code where the maximum compression limit for column design was always enforced as "0.5 fck Ac". However, the "0.5 fck Ac" limit should is only applicable to load combinations that contain seismic loading; other load combinations loads only should use the higher limit of "0.6 fck Ac". This has been corrected. The design results were always conservative for gravity combinations.

Shear Wall Design Incidents Resolved

*	Incident	Description
	53305	An incident was resolved for shear wall design using the CSA A23.3-04 code where the 3D pier
		boundary zone was not being reported.
*	53970 55285	An incident was resolved where in certain cases an incorrect pier section for shear wall design was being created when multiple wall objects in the same plane were assigned the same pier label. When this occurred the error was obvious because the wall area shown in the design report was clearly incorrect.
	54733	An incident was resolved where the Spandrel Overwrite form was blank and the wall design report was not able to be generated when pier and spandrel labels were assigned to same wall. Now when both Pier and Spandrel label are used on the same wall, a selection form is shown to choose the appropriate display.

Connection Design Incidents Resolved

*	Incident	Description
*	54668	An incident was resolved in the baseplate design in which the minimum plate thickness calculation
		displays a square root symbol in the design details, but the calculated minimum thickness value is
		missing the square root. This could result in unconservative baseplate thickness.

Detailing Incidents Resolved

*	Incident	Description
	54182	An incident was resolved in which an error was generated when trying to run the detailing for
		certain models. This could be avoided by saving and reopening the model. Now this is no longer
		necessary.
	54331	An incident was resolved for the detailer where overwriting the rebar rules for seismic column tie
		spacing would result in the column schedule calling out ties at 0" spacing.

Results Display and Output Incidents Resolved

*	Incident	Description
	53163	An incident was resolved where the command File > Create Video could become unresponsive
		depending upon the video codecs installed on the computer system.
	53195	An incident was resolved in which the characteristic periods Ta and Tb for the Turkish EDP-2007
		auto seismic loading were being incorrectly reported in the seismic calculation report. This was a reporting issue only. The periods used to calculate the seismic load for analysis were correct.
	53293	An incident was resolved that addressed two issues with frame hinges: (1) The text export of certain
	53788	FEMA356 auto-hinge assignments was incomplete and thus the text import did not reproduce the
		original hinge assignments. (2) The display of hinge results sometimes failed, and instead a large red X was plotted.
	53730	An incident was resolved in which joint drifts were not reported for Seismic (Drift) type load
		patterns in the joint drifts table. This was a reporting issue only.
	53766	An incident was resolved in which the auto seismic calculation in the report was showing the
		incorrect Ct values for the ASCE 7-05, ASCE 7-10, and Eurocode 8-2004 codes. This was a
		reporting issue only and did not affect results.
	54017	An incident was resolved where, in certain special cases, the Maximum Story Drift plots were
	54627	incorrect. When this occurred the effect was obvious. No other results were affected.
	54696	An incident was resolved in which an error message was generated when right clicking on a
	54887	designed pier to show the design details when the Pier Design option for that pier was set to
		"Simplified C&T Method". All wall design codes were affected. This was only a display issue
		where the error message was caused by trying to display the leg coordinates. Design results were
		unaffected.
	54897	An incident was resolved where, in certain cases, the property data for deck sections was not saved
		with the model and would be reset to default values when the model was re-opened.
	55136	An incident was resolved where the buckling shape was not correctly scaled if beam span loads
		were present. This was a display issue only and the buckling load factors calculated were correct.
		Beam span loads may cause buckling but should not affect the plotted shape of a buckling mode.
	55156	An incident was resolved where Report Table for "Shear Design for VEd2, VEd3 were not
		populated correctly for Italian NTC 2008 and Eurocode 2-2004 design codes. This was just a
		reporting issue and did not affect the design.

Database Tables Incidents Resolved

*	Incident	Description
	53274	An incident was resolved in which an error was sometimes generated when trying to display or export the Program Control database table. This most often affected export to Access, which requires the Program Control table to specify the units.
	53661	An incident was resolved in which trying to create a user report would sometimes appear to start generating a report but never complete. This could occur when there were problems generating the design results tables.
	53837	An incident was resolved in which the steel-frame and composite-beam design results tables would not display values for certain models. This was a display issue only and did not affect results displayed elsewhere.
	53905	An incident was resolved in which changes made by editing the table for frame end releases did not have any effect on the end-release assignments.
	54386	An incident was resolved in which section cut definitions were not properly imported from the *.e2k text file. The effect of this was that results could not be displayed for imported section cut definitions.
	54689	An incident was resolved where the units shown for the participation factors in the table "Modal Participation Factors" were given as [F-T²] for translational degrees of freedom (DOF), and as [F-L-T²] for rotational DOF, whereas the units should be [F-L] for all DOF. The values shown in the table were correct in the database units of the model, but the translational values could be incorrect for other length units. Database units are those in effect when the model is first created. This error had no effect on any other results.
	54911	An incident was resolved in which the Concrete Column PMM Envelope database table was showing the reinforcement quantity (length units squared) followed by a percentage sign when it should have been showing the reinforcement percentage. The on-screen display and the right-click design detail sheets were correct.
	55336	An incident was resolved where the error message "Error switching within tables" was generated when viewing the Wall Pier Summary Table. This only occurred when the Uniform Reinforcing Pier option was selected for provided reinforcement. No design results were affected and the error was only in table display.

Data Files (.EDB, .E2K, .\$ET) *Incidents Resolved*

*	Incident	Description
	53880	An incident was resolved in which importing an ETABS v9 *.e2k file with mass source from self and specified mass and loads resulted in the mass source in ETABS 2013 including the self-weight case in the loads list, which caused the self-weight to be double counted in the mass source.
	53958	An incident was resolved in which using the Save As command would unlock the original model (if locked), therefore deleting existing analysis and design results.
	54147	An incident was resolved where joist section definitions exported to the *.e2k text file and imported back in were changed and were no longer correct. The results agreed with the new model as imported.
	54443	An incident was resolved in which the geometry could be incorrect after importing a model containing inclined members from the *.e2k text file.
	54675 54897	An incident was resolved where, in certain cases, the property data for deck sections was not saved with the model and would be reset to default values when the model was re-opened.

External Import/Export Incidents Resolved

*	Incident	Description
	53178	An incident was resolved in which exporting to .DXF would generate an error message for certain
	53502	models, causing the export operation to fail. No results were affected.
	54243	
	55273	
	53190	An incident was resolved in which an error occurs when importing certain .DXF files as
		architectural plans.
	53534	An incident was resolved where importing a .DXF file as an architectural layer would overwrite the
		name of the model.
	54542	An incident was resolved where the material type of "Masonry" was not written out to the text file
		and therefore was imported as type "Other".
	54879	An incident was resolved that addressed several issues with the CIS/2 file import and export: (1) If
		the CIS/2 file was written in feet units and the file included more than one CIS/2
		global_unit_assigned_context entity then the joint coordinates would not import correctly. (2) If
		column orientations in the CSI/2 file were specified as angles in degrees rather than as vectors then
		the column orientation would not import correctly. (3) If force units chosen in ETABS were
		kiloNewtons then the CIS/2 file exported would have the force units undefined. (4) Error reporting
		for the import of CIS/2 files has been improved.
	55685	An incident was resolved that addressed several issues with the import of STAAD files: (1) STAAD
		Reference Load specifications were not recognized and not processed (2) STAAD Repeat Load
		specifications were recognized but not processed (3) LX and LY were not recognized as valid
		STAAD pressure and trapezoidal element load direction specifications.

Documentation Incidents Resolved

*	Incident	Description
	52967	Minor documentation errors in the Verification manuals have been corrected, minor improvements
		have been made to some of the examples, and some example file names have been changed for
		consistency. The design results produced and reported by ETABS are correct. The reported results
		are not changed except where the model has been changed. Three new examples have been added
		for steel frame design.

Miscellaneous Incidents Resolved

*	Incident	Description
	53054	The version number was changed to v13.1.0 for a new minor release.