Test Case ID	TC_WALLS_001.1	Test Case Description	Verify existence of the walls based on the captured point cloud.		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded Point Cloud into the model
2	

S #	Test Data Requirement
1	Existence of the wall in the place of displayed point cloud
2	No more than 5 cm error on the wall

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Display point cloud and adjust visibility	Successful displayed point cloud	As expected	Pass
2	Set proper level and height of slice	Successful set plan view	As expected	Pass
3	Check step by step if all walls exist according to survey	Successful pass through searching errors	Were found errors. ID of walls: 2500626, 2548926, 589391	Fail
4	Open Section View	Successful opened Section View	As expected	Pass
5	Repeat step 1-3 using using section view	Successful pass through searching errors	Were found errors: 988413, 32998, 366136	Fail

Test Case ID	TC_WALLS_001.2	Test Case Description	Verify existence of the walls based on the captured point cloud – after modification and retesting.		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded Point Cloud into the model
2	

S #	Test Data Requirement
1	Existence of the wall in the place of displayed point cloud
2	No more than 5 cm error on the wall

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Display point cloud and adjust visibility	Successful displayed point cloud	As expected	Pass
2	Set proper level and height of slice	Successful set plan view	As expected	Pass
3	Check step by step if all walls exist according to survey	Successful pass through searching errors	No errors found, walls exists	Pass
4	Open Section View	Successful opened Section View	As expected	Pass
5	Repeat step 1-3 using using section view	Successful pass through searching errors	No errors found, walls exists	Pass

Test Case ID	TC_WALLS_001.3	Test Case Description	Verify connections of the walls and structure.		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	All walls exists and passed verification

S #	Test Data Requirement
1	All of the walls are joined and properly connected.
2	Walls create topological structure.

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Display point cloud and adjust visibility	Successful displayed point cloud	As expected	Pass
2	Set proper level and height of slice	Successful set plan view	As expected	Pass
3	Check step by step if all walls are connected properly	Successful pass through searching errors	Errors found, walls do not have topological connections. ID of elements: 926326, 645984, 65566	Fail

Test Case ID	TC_WALLS_001.	Test Case Description	Verify connections of the walls and structure – after retesting.		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	All walls exists and passed verification

S #	Test Data Requirement
1	All of the walls are joined and properly connected.
2	Walls create topological structure.

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Display point cloud and adjust visibility	Successful displayed point cloud	As expected	Pass
2	Set proper level and height of slice	Successful set plan view	As expected	Pass
3	Check step by step if all walls are connected properly	Successful pass through searching errors	No errors found, walls have topological connections.	Pass

Test Case ID	TC_WALLS_001.5	Test Case Description	Verify level of details of the walls.		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Modelled walls

S #	Test Data Requirement
1	Verify if the walls are assign to proper level.
2	Verify if the walls have assigned correct material.
3	Verify if the name of wall represent type of the wall.

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Click of the wall	Successful highlighted wall	As expected	Pass
2	Look on the property table	Successful displayed properties	As expected	Pass
3	Check if the walls exist on the correct Level and compare with information from the table	Correct level properties	As expected	Pass
4	Check if the name of the wall represent type of the wall	Name of the wall match with name of the type	As expected	Pass
5	Check on the button 'Edit Type'	Successful popped out window with edit type properties	As expected	Pass
6	Check if the wall has assigned correct material	Material of the wall as on the survey	As expected	Pass

Test Case ID	TC_FLOORS_002.1	Test Case Description	Verify existence of the floors according to point cloud		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud

S #	Test Data Requirement
1	Verify if floors exists in the model
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open section view	Successful opened section view	As expected	Pass
2	Move the section step by step and verify if floors exist	Geometrical model exist in the correct place according to point cloud.	As expected	Pass
3	If floor exist in correct position measure distance to the point cloud – max. 5cm.	Distance from model to the point cloud in not bigger than 5cm	As expected	Pass

Test Case ID	TC_FLOORS_002.2	Test Case Description	Verify level of information of the floor		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Modelled floors

S #	Test Data Requirement
1	Verify if the floor name match witch floor type
2	verify if the floor structure and material are valid according to survey

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Click on the floor	Successful highlighted floor	As expected	Pass
2	Check in the property window if the name match witch type	Displayed properties, name match with type	As expected	Pass
3	Click the button 'Edit type'	Successful pooped up window of type properties	As expected	Pass
4	Check if the type structure match with the survey	Structure match with the survey data	As expected	Pass

Test Case ID	TC_FLOORS_002.3	Test Case Description	Verify if the floors is joined to the walls		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	Modelled floors and walls
3	Verified existence and accuracy of the walls and floors

S #	Test Data Requirement
1	Verify if geometry of the floors is joined with geometry of the walls

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open section view	Successful opened section and displayed model	As expected	Pass
2	Move section view and step by step verify if geometry of the floor is joined with walls	Finish floor line and finish wall line is thinner in the intersection of elements.	Many floors are not joined. All model should be verified and improve in the aspect of connections floor-wall.	Fail

Test Case ID	TC_FLOORS_002.4	Test Case Description	Verify if the floors is joined to the walls – retest.		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Modelled floors and walls
3	Verified existence and accuracy of the walls and floors

S #	Test Data Requirement
1	Verify if geometry of the floors is joined with geometry of the walls

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open section view	Successful opened section and displayed model	As expected	Pass
2	Move section view and step by step verify if geometry of the floor is joined with walls	Finish floor line and finish wall line is thinner in the intersection of elements.	As expected	Pass

TC_CEILING_003.1

Test Case ID	TC_CEILING_003.1	Test Case Description	Verify existence of the ceilings according to point cloud		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud

S #	Test Data Requirement
1	Verify if ceilings exists in the model
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open section view	Successful opened section view	As expected	Pass
2	Move the section step by step and verify if ceilings exist	Geometrical model exist in the correct place according to point cloud.	As expected	Pass
3	If ceiling exist in correct position measure distance to the point cloud – max. 5cm.	Distance from model to the point cloud in not bigger than 5cm	As expected	Pass

Test Case ID	TC_DOORS_004.1	Test Case Description	Verify existence of the doors according to point cloud		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted doors in the the model

S #	Test Data Requirement
1	Verify if door family exists in the model

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Verify existence of the doors according to the survey	Model of door exist according to the point cloud	As expected	Pass

Test Case ID	TC_DOORS_004.2	Test Case Description	Verify correctness of the door family dimensions		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted doors in the the model and verified

S #	Test Data Requirement
1	Verify if family door dimensions Height and Width are fitted to the point cloud
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Open section view	Successful displayed section view	As expected	Pass
3	Move section view in front of the doors,	Successful displayed door and point cloud	As expected	Pass
4	Measure doors and point cloud and verify if difference is not bigger than 5cm – Width and Height	Correct Height and correct Width	Dimensions of the few families are not correct. ID of elements which needs to be remodeled: 595618, 659849, 5818555	Fail

Test Case ID	TC_DOORS_004.3	Test Case Description	Verify correctness of the door family dimensions – retest		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted doors in the the model and verified

S #	Test Data Requirement
1	Verify if family door dimensions Height and Width are fitted to the point cloud
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Open section view	Successful displayed section view	As expected	Pass
3	Move section view in front of the doors,	Successful displayed door and point cloud	As expected	Pass
4	Measure doors and point cloud and verify if difference is not bigger than 5cm – Width and Height	Correct Height and correct Width	As expected	Pass

Test Case ID	TC_WINDOWS_005.1	Test Case Description	Verify existence of the windows according to point cloud		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted windows in the model

S #	Test Data Requirement
1	Verify if windows family exists in the model

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Verify existence of the windows according to the survey	Model of windows exist according to the point cloud	As expected	Pass

Test Case ID	TC_WINDOWS_005.2	Test Case Description	Verify correctness of the windows family dimensions		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted windows in the the model and verified

S #	Test Data Requirement
1	Verify if family windows dimensions Height and Width are fitted to the point cloud
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Open section view	Successful displayed section view	As expected	Pass
3	Move section view in front of the windows,	Successful displayed windows and point cloud	As expected	Pass
4	Measure windows and point cloud and verify if difference is not bigger than 5cm – Width and Height	Correct Height and correct Width	Dimensions of the few families are not correct. ID of elements which needs to be remodelled: 86737, 645234, 37844	Fail

Test Case ID	TC_WINDOWS_005.2	Test Case Description	Verify correctness of the windows family dimensions – retest		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Pass

S #	Prerequisites:
1	Loaded model
2	Loaded point cloud
3	Inserted windows in the the model and verified

S #	Test Data Requirement
1	Verify if family windows dimensions Height and Width are fitted to the point cloud
2	Verify error (max. 5cm)

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open plan view	Successful displayed plan view	As expected	Pass
2	Open section view	Successful displayed section view	As expected	Pass
3	Move section view in front of the windows,	Successful displayed windows and point cloud	As expected	Pass
4	Measure windows and point cloud and verify if difference is not bigger than 5cm – Width and Height	Correct Height and correct Width	As expected	Pass

Test Case ID	TC_FAMILIES_006.1	Test Case Description	Verify if all families are assigned to correct type and level.		
Created By	Matt	Reviewed By		Version	1.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	Finished works of modelling all families types.
3	

S #	Test Data Requirement
1	Verify if all families are assigned to proper type.
2	Verify properties of the families like assigned level or another specific information characteristic for particular type.
3	Special verification of type for a Generic Models
4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open 3D view.	Successful displayed 3D view	As expected	Pass
2	Switch all families types as a visible	All objects are visible	As expected	Pass
3	Select all geometrical objects in 3D view	All objects are selected	As expected	Pass
4	Click on the filtering button and select particular type – click 'ok'	Popped up window with filtering families types	As expected	Pass
5	Check if all elements of type are assigned properly	All elements have assigned proper family type, for instance: window has window type.	Some families of door are assigned as an window. Some generic models should be assigned as a wall.	Fail
6	Check if all elements are on correct level	All elements from particular level have to be assigned to this level. For instance: walls from Level 1 have property Level 1.	Walls (generic models) from Ground floor are assigned to 1st floor.	Fail

Test Case ID	TC_FAMILIES_006.2	Test Case Description	Verify if all families are assigned to correct type and level – retest.		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Finished works of modelling all families types.
3	

S #	Test Data Requirement
1	Verify if all families are assigned to proper type.
2	Verify properties of the families like assigned level or another specific information characteristic for particular type.
3	Special verification of type for a Generic Models
4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open 3D view.	Successful displayed 3D view	As expected	Pass
2	Switch all families types as a visible	All objects are visible	As expected	Pass
3	Select all geometrical objects in 3D view	All objects are selected	As expected	Pass
4	Click on the filtering button and select particular type – click 'ok'	Popped up window with filtering families types	As expected	Pass
5	Check if all elements of type are assigned properly	All elements have assigned proper family type, for instance: window has window type.	As expected	Pass
6	Check if all elements are on correct level	All elements from particular level have to be assigned to this level. For instance: walls from Level 1 have property Level 1.	As expected	Pass

TC_FAMILIES_006.3

Test Case ID	TC_FAMILIES_006.3	**Test Case Description**	Verify if particular families have required properties		
Created By	Matt	**Reviewed By**		**Version**	1.0

QA Tester's Log

Tester's Name	Matt	**Date Tested**	06.09.2022	**Test Case (Pass/Fail/Not Executed)**	Executed – Fail

S #	Prerequisites:
1	Loaded model
2	Finished works of modelling all families types.
3	Created schedule for families: walls, doors, windows.

S #	Test Data Requirement
1	Verify if walls have assigned material, levels, height properties
2	Verify if all doors have assigned Width and height properties
3	Verify if all windows have assigned Width and height properties
4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open particular schedule	Successful displayed 3D view	As expected	Pass
2	Verify trough columns and rows if all data are complete	No empty fields in required parameter field.	Empty fields in windows and doors schedule. Missing properties have to be added	Fail

Test Case ID	TC_FAMILIES_006.4	Test Case Description	Verify if particular families have required properties – retest.		
Created By	Matt	Reviewed By		Version	2.0

QA Tester's Log

Tester's Name	Matt	Date Tested	06.09.2022	Test Case (Pass/Fail/Not Executed)	Executed – Pass

S #	Prerequisites:
1	Loaded model
2	Finished works of modelling all families types.
3	Created schedule for families: walls, doors, windows.

S #	Test Data Requirement
1	Verify if walls have assigned material, levels, height properties
2	Verify if all doors have assigned width and height properties
3	Verify if all windows have assigned width and height properties
4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Open particular schedule	Successful displayed 3D view	As expected	Pass
2	Verify trough columns and rows if all data are complete	No empty fields in required parameter field.	As expected	Pass