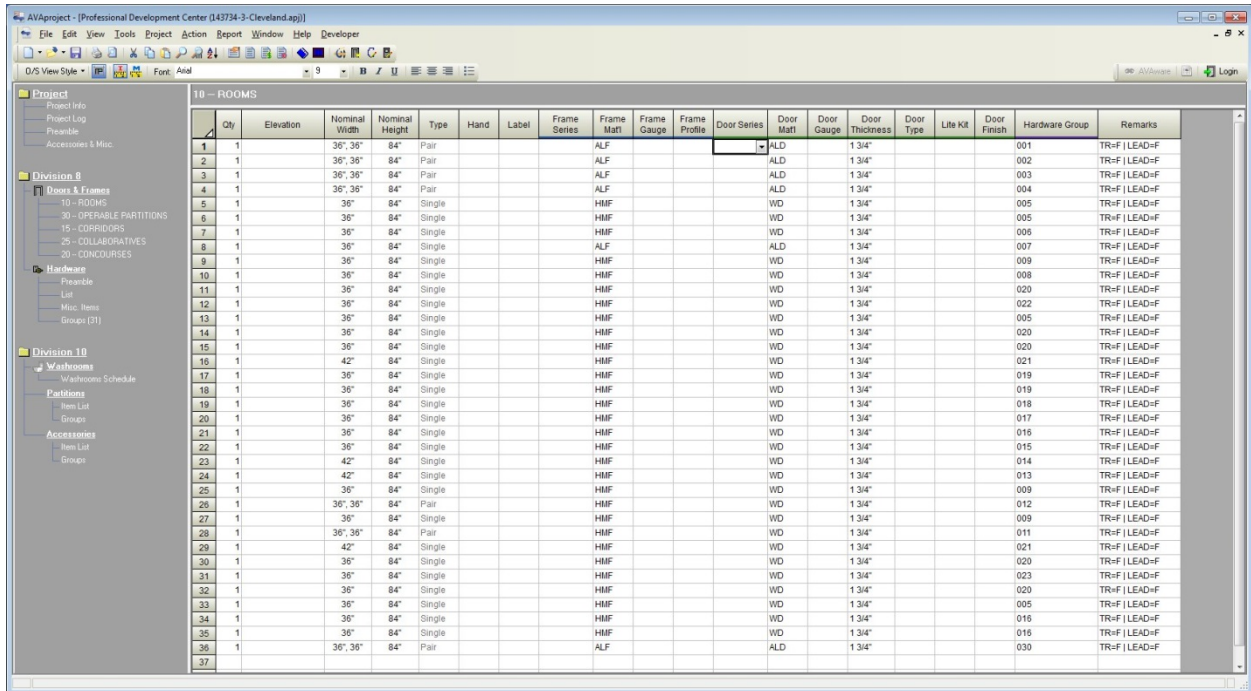


# AVaproject Feature Overview: Allegion SpeXtra Import

Introduced in Release 15.4, AVaproject features a module that facilitates the import of files created by Allegion's SpeXtra specification writing software



The screenshot displays the AVaproject software interface with a table titled "10 - ROOMS". The table lists 37 rows of door specifications. The columns include: Qty, Elevation, Nominal Width, Nominal Height, Type, Hand, Label, Frame Series, Frame Matl, Frame Gauge, Frame Profile, Door Series, Door Matl, Door Gauge, Door Thickness, Door Type, Lite KR, Door Finish, Hardware Group, and Remarks. The data shows various door types (Pair, Single), finishes (ALF, HMF, WD, ALD), and hardware groups (001-030).

Qty	Elevation	Nominal Width	Nominal Height	Type	Hand	Label	Frame Series	Frame Matl	Frame Gauge	Frame Profile	Door Series	Door Matl	Door Gauge	Door Thickness	Door Type	Lite KR	Door Finish	Hardware Group	Remarks
1	1	36", 36"	84"	Pair				ALF			ALD			1 3/4"			001		TR=F   LEAD=F
2	1	36", 36"	84"	Pair				ALF			ALD			1 3/4"			002		TR=F   LEAD=F
3	1	36", 36"	84"	Pair				ALF			ALD			1 3/4"			003		TR=F   LEAD=F
4	1	36", 36"	84"	Pair				ALF			ALD			1 3/4"			004		TR=F   LEAD=F
5	1	36"	84"	Single				HMF			WD			1 3/4"			005		TR=F   LEAD=F
6	1	36"	84"	Single				HMF			WD			1 3/4"			005		TR=F   LEAD=F
7	1	36"	84"	Single				HMF			WD			1 3/4"			005		TR=F   LEAD=F
8	1	36"	84"	Single				ALF			ALD			1 3/4"			007		TR=F   LEAD=F
9	1	36"	84"	Single				HMF			WD			1 3/4"			009		TR=F   LEAD=F
10	1	36"	84"	Single				HMF			WD			1 3/4"			008		TR=F   LEAD=F
11	1	36"	84"	Single				HMF			WD			1 3/4"			020		TR=F   LEAD=F
12	1	36"	84"	Single				HMF			WD			1 3/4"			022		TR=F   LEAD=F
13	1	36"	84"	Single				HMF			WD			1 3/4"			005		TR=F   LEAD=F
14	1	36"	84"	Single				HMF			WD			1 3/4"			020		TR=F   LEAD=F
15	1	36"	84"	Single				HMF			WD			1 3/4"			020		TR=F   LEAD=F
16	1	42"	84"	Single				HMF			WD			1 3/4"			021		TR=F   LEAD=F
17	1	36"	84"	Single				HMF			WD			1 3/4"			019		TR=F   LEAD=F
18	1	36"	84"	Single				HMF			WD			1 3/4"			019		TR=F   LEAD=F
19	1	36"	84"	Single				HMF			WD			1 3/4"			018		TR=F   LEAD=F
20	1	36"	84"	Single				HMF			WD			1 3/4"			017		TR=F   LEAD=F
21	1	36"	84"	Single				HMF			WD			1 3/4"			016		TR=F   LEAD=F
22	1	36"	84"	Single				HMF			WD			1 3/4"			015		TR=F   LEAD=F
23	1	42"	84"	Single				HMF			WD			1 3/4"			014		TR=F   LEAD=F
24	1	42"	84"	Single				HMF			WD			1 3/4"			013		TR=F   LEAD=F
25	1	36"	84"	Single				HMF			WD			1 3/4"			009		TR=F   LEAD=F
26	1	36", 36"	84"	Pair				HMF			WD			1 3/4"			012		TR=F   LEAD=F
27	1	36"	84"	Single				HMF			WD			1 3/4"			009		TR=F   LEAD=F
28	1	36", 36"	84"	Pair				HMF			WD			1 3/4"			011		TR=F   LEAD=F
29	1	42"	84"	Single				HMF			WD			1 3/4"			021		TR=F   LEAD=F
30	1	36"	84"	Single				HMF			WD			1 3/4"			020		TR=F   LEAD=F
31	1	36"	84"	Single				HMF			WD			1 3/4"			023		TR=F   LEAD=F
32	1	36"	84"	Single				HMF			WD			1 3/4"			020		TR=F   LEAD=F
33	1	36"	84"	Single				HMF			WD			1 3/4"			005		TR=F   LEAD=F
34	1	36"	84"	Single				HMF			WD			1 3/4"			016		TR=F   LEAD=F
35	1	36"	84"	Single				HMF			WD			1 3/4"			016		TR=F   LEAD=F
36	1	36", 36"	84"	Pair				ALF			ALD			1 3/4"			030		TR=F   LEAD=F
37																			

## Background

The **Allegion** name is synonymous with some of the most recognizable brands in the architectural industry. Brands like **Schlage**, **LCN**, **Von Duprin** and so many others; their products can be found on openings throughout the world.

As part of their marketing effort, **Allegion** maintains an army of specification writers; all of them eager to assist, by providing door and hardware specs to many of the industry's leading architects.

Specifications are created using a piece of proprietary internal software called, "**SpeXtra**". Although the software itself is used exclusively by **Allegion**, they do provide exported data (in the form of .XML files) for use by their distributor partners.

**AVAware** was contacted by **Allegion's** software group, and asked to create a utility that made it possible for AVaproject users to make use of **SpeXtra** files to facilitate the creation of project estimates and submittals.

## Overview

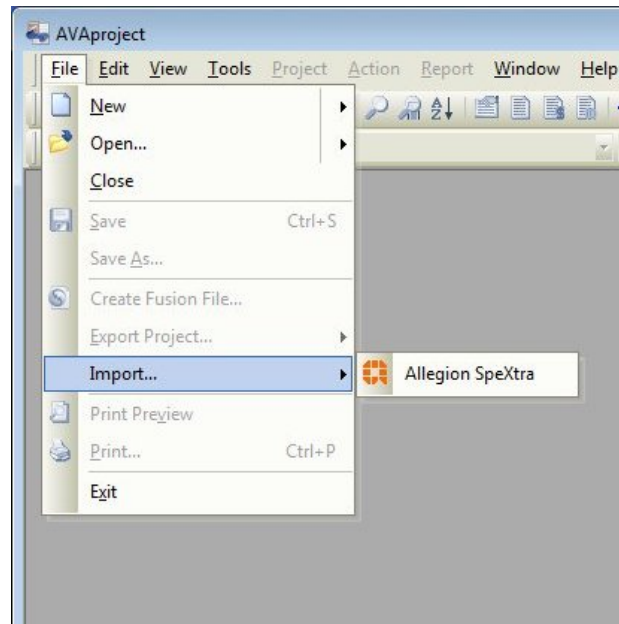
The import tool is a single-pass process that is able to read **SpeXtra**-created XML files, and convert them to **AVAproject** format in a matter of seconds. Information can either be imported into an existing project or an entirely new one. Users need only select the XML file provided by **Allegion**, and **AVAproject** does the rest. Hardware sets, openings and other related information is brought into a standard project.

## The Import Process

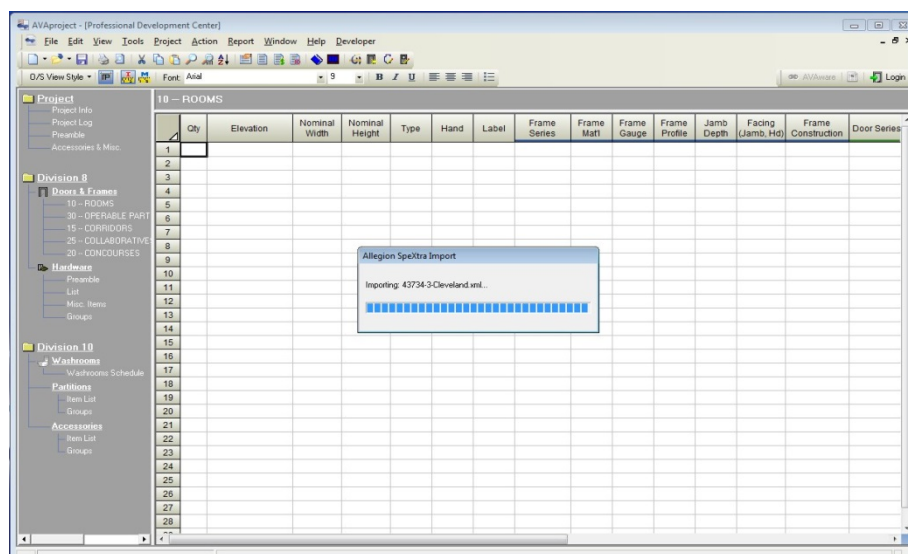
The actual process of importing a **SpeXtra** file couldn't be simpler. It's just matter of selecting the XML provided by **Allegion** and clicking a single button to commence the process.

When installed, the '**Allegion SpeXtra**' import module is accessed through the '**Import**' sub-menu (under the '**File**' menu).

If no project is currently open in **AVAproject**, a new one is created using the default template (if so configured), otherwise the information in the **SpeXtra** file will be imported into any currently open one. Imported openings will be appended to the end of the last schedule in the active project.

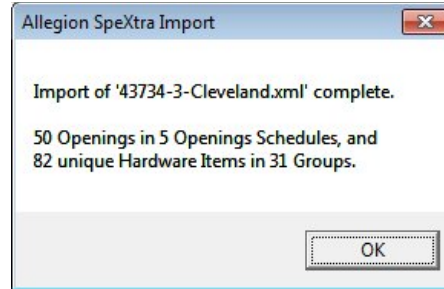


Once the desired XML file has been chosen, the import process will begin. As data is imported, a dialog box (as pictured below) will display its overall progress until it is completed.



When the import process is completed, the 'Progress Dialog' is replaced with a 'Summary Dialog' as pictured here.

It provides a final count of the total number of openings, hardware items and hardware groups that were imported.



The following is a brief list of some of the special features of the import process:

- Hardware sets complete with product details and notes are brought into **AVProject** as "**Hardware Groups**", and automatically linked to their associated openings in the **Openings Schedules**.
- Openings are brought in complete with individual leaf sizes and thicknesses, handing, opening numbers, "*to & froms*" and other miscellaneous data.
- Multiple "*areas*" are also supported by the import; openings are arranged in separate openings schedules, arranged by "*area*" designations.
- A comprehensive Hardware List of the various hardware products used throughout the hardware sets is created, with "*short codes*" automatically assigned to them. A "*Usage*" column in the Hardware List provides an instant reference to which sets each item appears in.
- Product information such as dates, numbers, contacts and other miscellaneous details are harvested from the import file and placed into their corresponding **AVProject** fields.

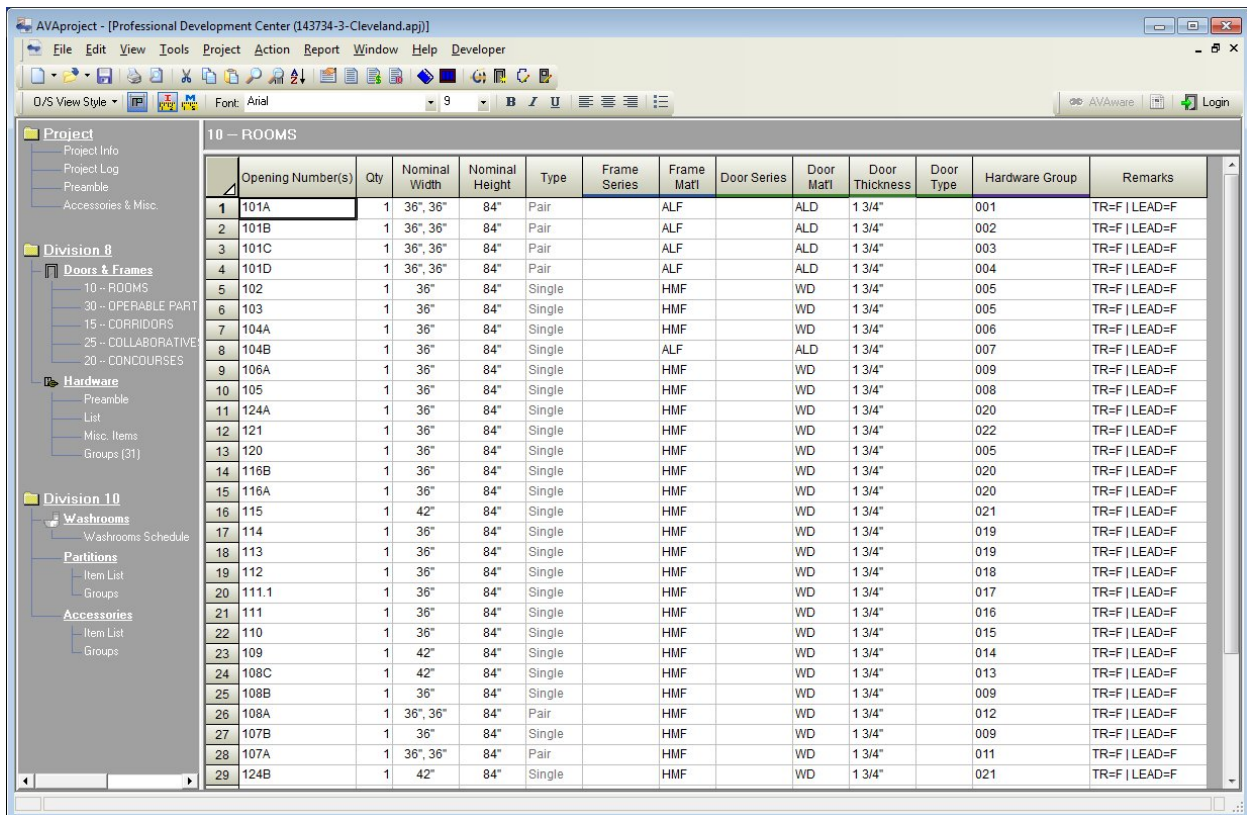
Absolutely no effort was spared in the creation of the import module. Every possible detail has been meticulously extracted from the **SpeXtra** file and preserved in its **AVProject** counterpart.

The following pages detail the various components of the imported data in their respective locations in **AVProject**.

## Imported Data: The Openings Schedules

Opening information is brought into **AVAproject** and inserted into one or more *Openings Schedules*. The following image illustrates the various columns populated by the imported process.

*Note: The actual appearance will be determined by the default ViewStyle as defined in AVAproject. Unused columns were “hidden” in this illustration in order to fit them into a single horizontal page.*



The screenshot displays the AVAproject software interface. The main window shows a table titled "10 - ROOMS" with the following columns: Opening Number(s), Qty, Nominal Width, Nominal Height, Type, Frame Series, Frame Matl, Door Series, Door Matl, Door Thickness, Door Type, Hardware Group, and Remarks. The table contains 29 rows of data, including opening numbers like 101A, 101B, 101C, 101D, 102, 103, 104A, 104B, 106A, 105, 124A, 121, 120, 116B, 116A, 115, 114, 113, 112, 111.1, 111, 110, 109, 108C, 108B, 108A, 107B, 107A, and 124B. The software interface includes a menu bar (File, Edit, View, Tools, Project, Action, Report, Window, Help, Developer), a toolbar, and a project tree on the left side.

	Opening Number(s)	Qty	Nominal Width	Nominal Height	Type	Frame Series	Frame Matl	Door Series	Door Matl	Door Thickness	Door Type	Hardware Group	Remarks
1	101A	1	36", 36"	84"	Pair		ALF		ALD	1 3/4"		001	TR=F   LEAD=F
2	101B	1	36", 36"	84"	Pair		ALF		ALD	1 3/4"		002	TR=F   LEAD=F
3	101C	1	36", 36"	84"	Pair		ALF		ALD	1 3/4"		003	TR=F   LEAD=F
4	101D	1	36", 36"	84"	Pair		ALF		ALD	1 3/4"		004	TR=F   LEAD=F
5	102	1	36"	84"	Single		HMF		WD	1 3/4"		005	TR=F   LEAD=F
6	103	1	36"	84"	Single		HMF		WD	1 3/4"		005	TR=F   LEAD=F
7	104A	1	36"	84"	Single		HMF		WD	1 3/4"		006	TR=F   LEAD=F
8	104B	1	36"	84"	Single		ALF		ALD	1 3/4"		007	TR=F   LEAD=F
9	106A	1	36"	84"	Single		HMF		WD	1 3/4"		009	TR=F   LEAD=F
10	105	1	36"	84"	Single		HMF		WD	1 3/4"		008	TR=F   LEAD=F
11	124A	1	36"	84"	Single		HMF		WD	1 3/4"		020	TR=F   LEAD=F
12	121	1	36"	84"	Single		HMF		WD	1 3/4"		022	TR=F   LEAD=F
13	120	1	36"	84"	Single		HMF		WD	1 3/4"		005	TR=F   LEAD=F
14	116B	1	36"	84"	Single		HMF		WD	1 3/4"		020	TR=F   LEAD=F
15	116A	1	36"	84"	Single		HMF		WD	1 3/4"		020	TR=F   LEAD=F
16	115	1	42"	84"	Single		HMF		WD	1 3/4"		021	TR=F   LEAD=F
17	114	1	36"	84"	Single		HMF		WD	1 3/4"		019	TR=F   LEAD=F
18	113	1	36"	84"	Single		HMF		WD	1 3/4"		019	TR=F   LEAD=F
19	112	1	36"	84"	Single		HMF		WD	1 3/4"		018	TR=F   LEAD=F
20	111.1	1	36"	84"	Single		HMF		WD	1 3/4"		017	TR=F   LEAD=F
21	111	1	36"	84"	Single		HMF		WD	1 3/4"		016	TR=F   LEAD=F
22	110	1	36"	84"	Single		HMF		WD	1 3/4"		015	TR=F   LEAD=F
23	109	1	42"	84"	Single		HMF		WD	1 3/4"		014	TR=F   LEAD=F
24	108C	1	42"	84"	Single		HMF		WD	1 3/4"		013	TR=F   LEAD=F
25	108B	1	36"	84"	Single		HMF		WD	1 3/4"		009	TR=F   LEAD=F
26	108A	1	36", 36"	84"	Pair		HMF		WD	1 3/4"		012	TR=F   LEAD=F
27	107B	1	36"	84"	Single		HMF		WD	1 3/4"		009	TR=F   LEAD=F
28	107A	1	36", 36"	84"	Pair		HMF		WD	1 3/4"		011	TR=F   LEAD=F
29	124B	1	42"	84"	Single		HMF		WD	1 3/4"		021	TR=F   LEAD=F

### A Note about “Areas”

The openings in some **SpeXtra** projects are arranged into different “**areas**”. When this is the case, a separate **Openings Schedule** is created in **AVAproject** for each individual area, and the openings assigned to them appear in their respective schedules. The depicted sample project contains five different “**areas**”, which are arranged into five schedules.

**Area** designations within **SpeXtra** files are entirely optional. In the event that there are no such designations in a given project, all the openings will be brought into a single **Openings Schedule**.

## Summary of 'Openings Schedule' Columns

Openings information is imported into a number of individual columns within the **Openings Schedule**. The following is a list of the columns that can be populated by the import process. Though most are self-explanatory, some have special considerations which are described below.

*Note: Not all data will be provided in the case of every project. The following summary only details which data columns are supported by the import module. The level of detail and comprehensiveness of the data is subject to the discretion of the specification writer.*

<u>Column Name</u>	<u>Details</u>
<i>Opening Number(s)</i>	Automatic counting of opening numbers is disabled by default after the import is complete. Since quantity values are imported, auto-counted is disabled in order to avoid conflicting opening counts.
<i>Qty</i>	As defined by the specification writer. (see notes on ' <i>Opening Number(s)</i> ')
<i>Nominal Width &amp; Nominal Height</i>	These columns contain the nominal dimensions of each door leaf that makes up a given opening. In the case of pairs, each leaf is listed individually (separated by a comma ",").
<i>Type</i>	Either ' <b>Single</b> ' or ' <b>Pair</b> '. Automatically populated based on the number of door leaves in the ' <i>Nominal Width</i> ' column.
<i>Frame Material</i>	As defined by the specification writer.
<i>Door Material</i>	As defined by the specification writer.
<i>Door Thickness</i>	As defined by the specification writer.
<i>Hardware Group</i>	Indicates which ' <b>Hardware Group</b> ' is associated with the given opening.
<i>Remarks</i>	The column contains additional information that has no appropriate column to hold it. The information relates to attributes of the opening, and should be considered when the actual door and/or frame products are entered.  <b>TR</b> = <i>True or False</i> – Temperature Rise <b>LEAD</b> = <i>True or False</i> – Lead lined
<i>Location To/From Location</i>	(not pictured) Opening locations or "to/froms" as they are often called, are imported when provided by the specification writer.

## Imported Data: Hardware Items

Perhaps the most important contained in a **SpEXtra** file is hardware that is to be used in the project. When individual items are imported, they are added to the **AVAproject 'Hardware List'** and automatically assigned '**Short Codes**' for convenient reference.

*Note: As with the 'Openings Schedule', the actual appearance of the 'Hardware List' will be determined by the default ViewStyle as defined in AVAproject. Some unused columns were "hidden" in this illustration and others were shown in order to show all the imported data in a single horizontal page.*

	Short Code	Manufacturer	Product Code	Handing	Finish (BHMA)	Finish (ANSI)	Unit List	Used in Groups
1	SC79	Adams Rite	4066	N/A	628			(1) 021
2	SC76	B/O	ALL HARDWARE FURNISHED BY THE DOOR	N/A				(1) 028
3	SC57	B/O	FURNISHED BY THE DOOR SUPPLIER	N/A				(1) 025
4	SC1	B/O	FURNISHED UNDER DIVISION #28.	N/A				(4) 025, 027, 027A, 029
5	SC21	B/O	FURNISHED UNDER SECTION 08 41 00	N/A				(8) 001, 002, 003, 004, 007, 010, 026, 030
6	SC16	Corbin-Russwin	1070-112-A02-7-CT7	N/A	626			(6) 001, 002, 007, 010, 026, 030
7	SC15	Corbin-Russwin	3070-178-7-CT7	N/A	626			(5) 001, 007, 010, 026, 030
8	SC18	Corbin-Russwin	8000-7	N/A	626			(6) 001, 002, 007, 010, 026, 030
9	SC69	Elmes	G1103-01-003	N/A	630			(1) 024
10	SC54	Falcon	250	N/A	626			(2) 003, 004
11	SC30	Falcon	CD-24-R-EO	N/A	626			(2) 001, 002
12	SC62	Falcon	CD-24-R-EO-1439	N/A	626			(2) 007, 010
13	SC31	Falcon	CD-24-R-NL-OP	N/A	626			(1) 001
14	SC24	Falcon	CD-24-R-NL-OP-1439	N/A	626			(1) 026
15	SC51	Falcon	CD-25-R-EO	N/A	626			(1) 030
16	SC12	Falcon	CD-25-R-L-NL-QUA	N/A	626			(4) 009, 011, 012, 013
17	SC10	Falcon	EPT10	N/A	689			(1) 027
18	SC41	Falcon	F-25-VL-LBR-QUA	N/A	626			(1) 029
19	SC29	Falcon	KR4023	N/A		USP		(5) 001, 002, 011, 012, 030
20	SC44	Falcon	LD-25-R-L-NL-QUA	N/A	626			(1) 027A
21	SC59	Falcon	LM-RX-LD-25-V-EO-LBR	N/A	626			(1) 025
22	SC5	Falcon	PS914 900-2RS	N/A		LGR		(1) 027
23	SC2	Falcon	RX-EL-25-R-L-NL-QUA	N/A	626			(1) 027
24	SC63	Falcon	SC70-18	N/A	689			(1) 016
25	SC27	Falcon	SC71 HDPA	N/A	689			(7) 005, 012, 013, 014, 015, 025, 029
26	SC35	Falcon	SC71 RW/PA	N/A	689			(5) 006, 016, 018, 022, 023
27	SC4	Falcon	SC71 SS	N/A	689			(4) 008, 025, 027, 027A
28	SC13	Falcon	SC71 SSHO	N/A	689			(2) 009, 011
29	SC25	Glynn-Johnson	100S	N/A	630			(10) 001, 002, 003, 004, 007, 010, 016, 017, 026, 030



## Summary of 'Hardware List' Columns

Once again, hardware information is imported into a number of individual columns within the **Hardware List**. The following is a list of the columns that can be populated by the import process.

*Note: Not all data will be provided in the case of every project. The following summary only details which data columns are supported by the import module. The level of detail and comprehensiveness of the data is subject to the discretion of the specification writer.*

<u>Column Name</u>	<u>Details</u>
<i>Short Code</i>	(assigned) A unique ' <i>short code</i> ' is automatically assigned to each hardware item as it is imported.
<i>Manufacturer</i>	<b>AVProject</b> is pre-loaded with a comprehensive list of over 450 manufacturer names, along with their corresponding <b>Allegion</b> "3-character" codes. This list was also cross-referenced to <b>AVAware's</b> own catalog library; this ensured that manufacturer names associated with imported data would be perfectly consistent with products drawn from <b>AVAware</b> catalogs.
<i>Product Code</i>	The ' <i>Product Code</i> ' as determined by the specification writer.
<i>Finish (BHMA) &amp; Finish (ANSI)</i>	Product finishes as defined by the specification writer are placed in either of these two columns, based on whether a BHMA or ANSI convention is being used.
<i>Unit List</i>	The unit list price as determined by the specification writer.
<i>Used in Groups</i>	(generated) This column contains a list of the ' <i>Hardware Groups</i> ' in which the given hardware product appears. The list is preceded with count of the total number of groups.

## Imported Data: Hardware Groups (Sets)

In addition to importing details on the individual hardware items being used in a project, details on the specific groups of hardware that are assigned to each opening are imported as well. **Hardware Groups** (depicted below) are essentially a list of hardware items along with their respective quantities as they are used on specific openings.

	Qty (Active)	Qty (Inactive)	Qty (Off-Door)	Short Code	Catalog	Product Code	Finish (BHMA)	Finish (ANSI)	Handing	Remarks
1	1			SC1		FURNISHED UNDER DIVISION #28			N/A	
2	1			SC2		RX-EL-25-R-L-NL-GLJA	626		N/A	
3	3			SC3		5BB1HW 4.5 X 4.5	652		N/A	
4	1			SC4		SC71 SS	689		N/A	
5	1									
6	1			SC5		PS914 900-2RS			LGR	N/A
7	1			SC6		34	626		N/A	
8	1			SC7		673-05WD			BLK	N/A
9	3			SC8		SR64			GRY	N/A
10	1			SC9		8400 10" X 1 1/2" LDW B4E	630		N/A	
11	1									
12	1			SC10		EPT10	689		N/A	
13										
14										
15										
16										
17										
18										
19										
20										
21										

Above:

Below:

NOTES:  
 1) THE 679-06 DOOR POSITION SWITCH SHALL BE WIRED TO THE 'DPS' TERMINALS OF THE ACCESS CONTROL SYSTEM.  
 2) THE 'WALD' SWITCH INSIDE THE EXIT DEVICE SHALL BE WIRED TO THE 'PK' TERMINALS OF THE ACCESS CONTROL SYSTEM.

OPERATIONAL DESCRIPTION:  
 1) THE DOORS SHALL BE NORMALLY CLOSED AND LOCKED.  
 2) FREE EGRESS SHALL BE POSSIBLE AT ALL TIMES.  
 3) THE ACCESS CONTROL SOFTWARE SHALL CONTROL THE LOCKING AND UNLOCKING OF THE OPENING.  
 4) WHEN ACCESS CONTROL SOFTWARE GOES INTO AN UNLOCK MODE, THE FOLLOWING ACTIONS WILL OCCUR:  
 A. THE LATCHES ON THE EXIT DEVICES WILL RETRACT, AND OPENING THE DOORS TO ALLOW ACCESS.

The actual **names** of the **Hardware Groups** are determined by the specification writer and are brought in as part of the import process, as are the **'Notes'** if any are provided.

There are three quantity columns that are populated during the import. As their names imply, *'Qty (Active)'* and *'Qty (Inactive)'* indicate how many of the given hardware item are used on the active and inactive door leafs respectively. The *'Qty (Off Door)'* column indicates how many of the item are used, but aren't placed directly on a door leaf (ie: power supplies).



## Using the Imported Data: Reporting

Once **SpeXtra** data has been imported into **AVAproject**, the next logical step would be supplement the information provided by the specification writer with the details required to complete an “*estimate*”. In the event the bid is successful and the job is awarded, the project would then be “*detailed*” – a process in which every miniscule piece of data surrounding each opening is provided.

Generally speaking, the level of detail provided by **SpeXtra** generated exports is comprehensive enough that several reports can be generated immediately following import – without providing any additional data whatsoever.

### Reports: ‘Openings Schedule’ and ‘Hardware List’

The most basic of the reports offered by **AVAproject** are the simple ‘*Openings Schedule*’ and ‘*Hardware List*’. They are simply columnar reports that reflect the data as it appears in the project worksheets. The column layout as it appears on screen is replicated in the printed reports.

The following is a ‘Print Preview’ of the ‘Openings Schedule’ previously shown in this document.

10 -- ROOMS

Opening Number(s)	Qty	Nominal Width	Nominal Height	Type	Frame Series	Frame Mat'l	Door Series	Door Mat'l	Door Thickness	Door Type	Hardware Group	Remarks
101A	1	36", 36"	84"	Pair	ALF		ALD		1 3/4"		001	TR=F   LEAD=F
101B	1	36", 36"	84"	Pair	ALF		ALD		1 3/4"		002	TR=F   LEAD=F
101C	1	36", 36"	84"	Pair	ALF		ALD		1 3/4"		003	TR=F   LEAD=F
101D	1	36", 36"	84"	Pair	ALF		ALD		1 3/4"		004	TR=F   LEAD=F
102	1	36"	84"	Single	HMF		WD		1 3/4"		005	TR=F   LEAD=F
103	1	36"	84"	Single	HMF		WD		1 3/4"		005	TR=F   LEAD=F
104A	1	36"	84"	Single	HMF		WD		1 3/4"		006	TR=F   LEAD=F
104B	1	36"	84"	Single	ALF		ALD		1 3/4"		007	TR=F   LEAD=F
106A	1	36"	84"	Single	HMF		WD		1 3/4"		009	TR=F   LEAD=F
105	1	36"	84"	Single	HMF		WD		1 3/4"		008	TR=F   LEAD=F
124A	1	36"	84"	Single	HMF		WD		1 3/4"		020	TR=F   LEAD=F
121	1	36"	84"	Single	HMF		WD		1 3/4"		022	TR=F   LEAD=F
120	1	36"	84"	Single	HMF		WD		1 3/4"		005	TR=F   LEAD=F
116B	1	36"	84"	Single	HMF		WD		1 3/4"		020	TR=F   LEAD=F
116A	1	36"	84"	Single	HMF		WD		1 3/4"		020	TR=F   LEAD=F
115	1	42"	84"	Single	HMF		WD		1 3/4"		021	TR=F   LEAD=F
114	1	36"	84"	Single	HMF		WD		1 3/4"		019	TR=F   LEAD=F
113	1	36"	84"	Single	HMF		WD		1 3/4"		019	TR=F   LEAD=F

10 -- ROOMS Page 1 of 2

Orientation:  Landscape  Portrait  
 Include Data block  
 Include Page Numbers

Schedule Style:  Horizontal  Vertical  
Row Numbers:  None  Beginning of each row  Every page

Page Title: 10 -- ROOMS  
 Fit to one page across  
 Vertical Gridlines  Horizontal Gridlines

Force rows to a minimum height of 1/2 inches.

## Report: 'Hardware Groups'

The 'Hardware Groups' report, as its name implies, is a printed summary of the individual hardware groups BEFORE they are associated with specific openings.

Although it is possible to show a list of "Attached Openings", this should not be confused with the way groups appear on a 'Hardware Schedule'. In the 'Groups' report, items are shown just as entered – with all their quantity columns. The 'Schedule' differs in that actual quantities as required by the openings the group is attached to, are shown (per **DHI** specifications).

As in the case of the 'Openings Schedule' and 'Hardware List', the printed report takes its column layout from the user-specified arrangement in the on-screen view.

**Hardware Groups**

Group: 027  
1 Opening: CN-2B

Qty (Active)	Qty (Inactive)	Qty (Off-Door)	Short Code	Catalog	Product Code	Finish (BHMA)	Finish (ANSI)	Handing
1			SC1		FURNISHED UNDER DIVISION #28.			N/A
1			SC2		RX-EL-25-R-L-NL-QUA	626		N/A
3			SC3		5BB1HW 4.5 X 4.5	652		N/A
1			SC4		SC71 SS	689		N/A
1			SC5		PS914 900-2RS		LGR	N/A
1			SC6		34	626		N/A
1			SC7		679-05WD		BLK	N/A
3			SC8		SR64		GRY	N/A
1			SC9		8400 10" X 1 1/2" LDW B4E	630		N/A
1			SC10		EPT10	689		N/A

Hardware Groups

Page 1 of 2

Orientation:  Landscape  Portrait  
 Include Data block  Fit to one page across  
 Include Page Numbers  Vertical Gridlines  Horizontal Gridlines

Show attached openings  
 Show column headings  
 Show group notes

## Report: 'Hardware Schedule'

The 'Hardware Schedule' is easily one of the most important and popular reports called upon. Although additional information that may not be part of the **SpEXtra** export can appear on a 'Hardware Schedule', there is usually enough information in the provided file to generate a basic report.

The following is the beginning of the 'Hardware Schedule' as generated immediately following the sample import used in this document.

The screenshot shows the AVAproject software interface in print preview mode. The window title is "AVAproject - [Professional Development Center (143734-3-Cleveland.app)] - Print Preview". The menu bar includes File, Edit, View, Tools, Project, Action, Report, Help, and Developer. The toolbar shows various icons for printing and navigation, with a 63% zoom level. The main content area displays a "Hardware Schedule" report. The report is titled "Hardware Schedule" and contains two sections: "Heading #1 (Group 001)" and "Heading #2 (Group 002)". Each section lists items with their quantities, descriptions, and associated codes. The bottom of the window features a control panel with options for orientation (Landscape or Portrait), page title, heading separator, and various display options like "Show Group Names", "Show Related Openings", and "Show Door 'Type'".

Item #1	Description	Quantity
1	Pair of doors 101A	90'
36' , 36' x 84' x 1 3/4" - ALD DR x ALF FR		
2	Glynn-Johnson 1008	630
3	Corbin-Russwin 1070-112-A02-1-CT7	626
2	MBS 112HD	SPL
1	Corbin-Russwin 3070-175-7-CT7	626
2	LCN 4221 M-C RAL-TBD	RAL
1	National Guard 425 SIA	NS
2	MBS 8150HD 18" O	630
2	National Guard 0627A	CL
1	Falcon CD-24-R-EO	626
1	Falcon CD-24-R-NL-OP	626
3	B/O FURNISHED UNDER SECTION 08 41 00	
1	Falcon KR4233	USP
2	LCN RAL-TBD4020-18G	RAL
4	Cylinder Corbin-Russwin 8000-7-626	626

Item #2	Description	Quantity
1	Pair of doors 101B	90'
36' , 36' x 84' x 1 3/4" - ALD DR x ALF FR		
2	Glynn-Johnson 1008	630
3	Corbin-Russwin 1070-112-A02-1-CT7	626
2	MBS 112HD	SPL
1	LCN 4221 M-C RAL-TBD	RAL

There are easily hundreds of variations of the basic 'Hardware Schedule' that can be generated using the many configurations and formatting options offered in **AVAproject**. The example shown is using the default settings, designed to mimic **DHI** specifications.

**Report: 'Material List'**

Another report with literally hundreds of variations to the way it can be presented is the 'Material List'. This powerful report details each and every product required to complete a project, with complete pricing details including list, cost and quoted.

The following are two variations of the report as generated for the sample **SpeXtra** import. All items that have a price provided as part of the import appear in black, while the remaining items (those that still require pricing) are shown in red. This is done in order to draw the attention of estimators to products that have not yet been considered in the project cost.

	Opening Number(s)	No. of Openings	Comp. Ref.	Description	Overall Length	Price Basis	Qty Per Opening	Total Qty	Opening List	Total List
1	101A	1		4021 MC RAL-TBD		426.00 ea	2	2	426.00	852.00
2	101A	1		100S		267.00 ea	2	2	267.00	534.00
3	101A	1		FURNISHED UNDER SECTION 08 41 00			2	2		
4	101A	1		C627A		16.80 ea	2	2	16.80	33.60
5	101A	1		112HD		250.00 ea	2	2	250.00	500.00
6	101A	1		1070-112-A02-7-CT7			1	1		
7	101A	1		FURNISHED UNDER SECTION 08 41 00			1	1		
8	101A	1		8190HD 18" O		143.60 ea	2	2	143.60	287.20
9	101A	1		CD-24-R-EO		1109.00 ea	1	1	1109.00	1109.00
10	101A	1		3070-178-7-CT7			1	1		
11	101A	1		8000-7-626		61.00 ea	4	4	61.00	244.00
12	101A	1		RAL-TBD4020-18G		79.00 ea	2	2	79.00	158.00
13	101A	1		1070-112-A02-7-CT7			2	2		
14	101A	1		KR4023		629.00 ea	1	1	629.00	629.00
15	101A	1		425 SIA			1	1		
16	101A	1		CD-24-R-NL-OP		1109.00 ea	1	1	1109.00	1109.00
17										5455.80
18										
19	101B	1		425 SIA			1	1		
20	101B	1		KR4023		629.00 ea	1	1	629.00	629.00
21	101B	1		FURNISHED UNDER SECTION 08 41 00			1	1		
22	101B	1		C627A		16.80 ea	2	2	16.80	33.60
23	101B	1		FURNISHED UNDER SECTION 08 41 00			1	1		
24	101B	1		4021 MC RAL-TBD		426.00 ea	2	2	426.00	852.00
25	101B	1		100S		267.00 ea	2	2	267.00	534.00
26	101B	1		1070-112-A02-7-CT7			1	1		
27	101B	1		RAL-TBD4020-18G		79.00 ea	2	2	79.00	158.00
28	101B	1		1070-112-A02-7-CT7			2	2		
29	101B	1		112HD		250.00 ea	2	2	250.00	500.00
30	101B	1		8190HD 18" O		143.60 ea	2	2	143.60	287.20
31	101B	1		8000-7-626		61.00 ea	3	3	61.00	183.00

	Manufacturer	No. of Openings	Comp. Ref.	Description	Overall Length	Price Basis	Qty Per Opening	Total Qty	Opening List	Total List
87	National Guard	2		2525B		27.20 ea	1	2	27.20	54.40
88	National Guard	7		425 SIA			1	7		
89	National Guard	1		9605A 84"		74.48 ea	1	1	74.48	74.48
90	National Guard	7		C627A		16.80 ea	Varies	10	16.80	168.00
91										296.88
92										
93	Sargent	8		34			Varies	10		
94	Sargent	9		43 13-0097			Varies	12		
95	Sargent	2		43 13-0512			1	2		
96	Sargent	18		43 13-0938			Varies	26		
97										0.00
98										
99	Schlage	6		L9050L 17A L583-363		652.50 ea	1	6	652.50	3915.00
100	Schlage	2		L9070P 17A 626 LH		735.00 ea	1	2	735.00	1470.00
101	Schlage	8		L9071L 17A		641.00 ea	1	8	641.00	5128.00
102	Schlage	1		L9080L 17A		639.00 ea	1	1	639.00	639.00
103	Schlage	1		L9496L OCCUPIED/VACANT 17A L583-363		744.50 ea	1	1	744.50	744.50
104										11896.50
105										
106	Schlage E.S.	1		679-05WD		81.10 ea	1	1	81.10	81.10
107	Schlage E.S.	1		7764		163.00 ea	1	1	163.00	163.00
108	Schlage E.S.	1		L1910S-1		659.00 ea	1	1	659.00	659.00
109	Schlage E.S.	1		PS902 900-BBK		374.00 ea	1	1	374.00	374.00
110										1277.10
111										
112	Von Duprin	1		6111 FSE DSLC 24VDC		850.00 ea	1	1	850.00	850.00
113	Von Duprin	1		EPT10		465.00 ea	1	1	465.00	465.00
114	Von Duprin	1		PS902		197.00 ea	1	1	197.00	197.00
115										1512.00
116										
117				Project Totals:						82385.53

*Note: Even when there is no (or incomplete) pricing provided by the **SpeXtra** import, the 'Material List' can still be used to provide a comprehensive list of all hardware products, in their exact quantities, as required for a project. This information can be used to complete purchase orders and other shipping reports.*

## Using the Imported Data: Connecting Hardware to AVAware Catalogs

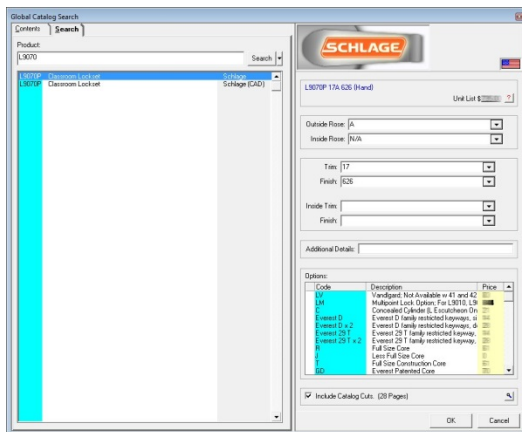
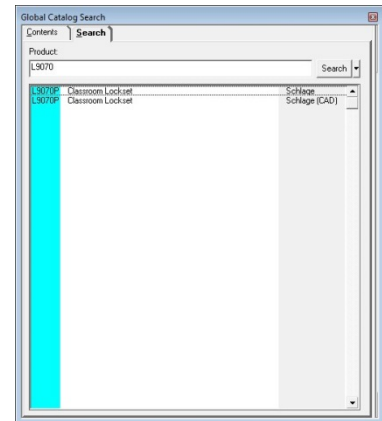
There is absolutely nothing from preventing hardware data to be used exactly as it's provided in the **SpeXtra** files. There is a considerable amount of additional data provided when hardware items are taken from **AVAware** product catalogs, but a good portion of that data can be manually entered to supplement the **SpeXtra** data.

Information such as 'Category' and 'Sub-Category' designations, 'Door and Frame Preparations', 'Handing', 'Keying', etc. can all be manually entered for each product on the **Hardware List**. Some information, however, such as catalog cut references, cannot. These valuable bits of information can only be accessed if the items in the **Hardware List** are "connected" to their counterparts in the **AVAware** product catalogs.

Fortunately, **AVProject** provides some effective tools that make this process as quick and simple as possible. Every individual hardware item appears on the **Hardware List**; the nature of the **SpeXtra** import ensures that no "orphan" items appear in any of the import **Hardware Groups**. As such, the process of connecting individual items to the catalogs is simply a process of working through the **Hardware List** and performing a simple "search" against the 'global manifest'.

Although users may specify which catalog should be searched for any given hardware product, there is no actual need to do so. Clicking the 'down arrow' at the end of the 'Product Code' column (without specifying a catalog) will trigger a global search of all installed catalogs.

A global search of a '**L9070**' brings up a search result similar to the one depicted. Since there are two installed catalogs in which the product appears – *U.S.* and *Canadian* – the user may select either one to connect to the hardware item.



Once a product has been selected from the list of search results, the familiar Product Builder is presented. At this point, it's simply a matter of replicating the product options as they appear in the imported data.



Once the product is searched and built, it will appear like the product depicted below.

	Short Code	Catalog	Manufacturer	Product Code	Handling	Finish (BHMA)	Finish (ANSI)	Unit List	Used in Groups
57	SC50		Ives	VR914 NL	N/A	630			(3) 007, 010, 030
58	SC32		Ives	WS33	N/A	626			(8) 005, 006, 013, 014, 020, 022, 023, 025
59	SC26		Ives	WS40	N/A	626			(4) 012, 015, 018, 019
60	SC23		LCN	4021 MC RAL-TBD	N/A		RAL		(8) 001, 002, 003, 004, 007, 010, 026, 030
61	SC19		LCN	RAL-TBD4020-18G	N/A		RAL		(8) 001, 002, 003, 004, 007, 010, 026, 030
62	SC39		LCN	SEM7850	N/A	689			(1) 029
63	SC38		National Guard	2525B	N/A		BRN		(2) 014, 029
64	SC17		National Guard	425 SIA	N/A		NS		(6) 001, 002, 007, 010, 026, 030
65	SC40		National Guard	9605A84"	N/A		CL		(1) 029
66	SC14		National Guard	C627A	N/A		CL		(6) 001, 002, 007, 010, 026, 030
67	SC6		Sargent	34	N/A	626			(6) 009, 011, 012, 013, 027, 027A
68	SC11		Sargent	43 13-0097	N/A	626			(5) 009, 011, 012, 013, 029
69	SC77		Sargent	43 13-0512	N/A	626			(1) 021
70	SC34		Sargent	43 13-0938	N/A	626			(11) 006, 008, 014, 015, 016, 017, 018, 019, 020, 022, 023
71	SC64		Schlage	L9050L 17A1583-363	N/A	626			(2) 006, 020
72	SC36	Schlage	Schlage	L9070P 17A626 (Hand)	Reversible	626			(2) 014, 017
73	SC47		Schlage	L9071L 17A	N/A	626			(5) 008, 015, 016, 018, 019
74	SC82		Schlage	L9080L 17A	N/A	626			(1) 023
75	SC33		Schlage	L9496L OCCUPIED/VACANT 17A1583-363	N/A	626			(1) 022
76	SC7		Schlage E.S.	679-05WD	N/A		BLK		(1) 027
77	SC60		Schlage E.S.	7764	N/A	628			(1) 025
78	SC56		Schlage E.S.	L1910S-1	N/A		WHT		(1) 025
79	SC58		Schlage E.S.	PS902 900-BBK	N/A		LGR		(1) 025
80	SC46		Von Duprin	6111 FSE DSLC 24VDC	N/A	630		850.00	(1) 027A
81	SC61		Von Duprin	EPT10	N/A	689		465.00	(1) 025
82	SC45		Von Duprin	PS902	N/A		LGR	197.00	(1) 027A

Please note that the *'Manufacturer'* as it appears when taken from the product catalog is identical to the one assigned by the **SpeXtra** import. As a result, there is no way to distinguish "connected" items from non-connected on printed reports. More importantly, users may choose to connect only the items for which they require the additional data (ie: catalog cuts, preps, etc.) that's offered by the **AVAware** catalogs. They are not forced to search for each and every item.

Final Note: **AVAware's** catalog development team strictly observes the product nomenclature as described in the manufacturers' printed price books. Assuming **SpeXtra** data is created with the same strict observance to proper nomenclature, it should be a relatively simple matter to connect to corresponding hardware items in the catalogs.