



USAF Built Infrastructure Inventory and Assessments Manual

Appendix for Interior Construction (C10)

July 2017

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I. Overview

This manual covers the inventory and assessment process for building “Interior Construction (C10)” building system and components. Please see the SMS Playbook Manual for additional information including:

- BUILDER™ Sustainment Management System Concepts
- Overview of ASTM E 1557 UNIFORMAT II Standard Classification for BUILDER™
- BUILDER™ Inventory Overview
- BUILDER™ Assessment Overview
- BUILDER™ Remote Entry Database (BRED™)
- Working with Web-Based BUILDER™
- Quality Assurance
- Site Visit Preparation and Execution
- Site Visit Safety

A. C10 Interior Construction System description

1. UNIFORMAT II definition

- The interior construction system of a building facilitates space definition, separation, security, observation, functionality and environmental control within the building. The system is designed to support the function/mission of the building and for the comfort and safety of the occupants.

2. Major components

- Partitions (C1010) – Partitions include interior walls constructed from different types of materials (typically drywall, masonry, wood or plaster) and windows used to divide the interior space to meet the needs of the occupants.
- Interior Doors (C1020): Interior doors allow access, environmental control and security for both personnel and non-personnel needs.
- Fittings (C1030): Fittings are a collection of interior components including counters, lockers, ladders, display boards, etc. For the USAF BUILDER™ SMS program “Interior Ladders” are the only C1030 fittings component that may be inventoried and assessed. Inventory and assessment of Interior Ladders is at the option of the base.

3. Lifecycle characteristics

- The life cycle for Interior Construction varies based on material type/quality, amount of use and care over the life cycle. Typically finish materials are short-lived components and the life cycle is based on the manufacturers’ standard life of the product. These systems have an expected service life of 7–40 years.

II. Inventory

A. General C10 Inventory Guidance

This section presents common UNIFORMAT II C10 Interior Construction inventory Component Sections found across USAF installations as a guide for entering into the BUILDER™ SMS or BRED™ software. Inventory items are arranged by BUILDER™ SMS system with Material Category, Component Subtype, Quantity and Inventory Notes. Each building’s full or partial inventory can be captured in the field using the Inventory/Assessment

Data Collection Sheet(s) included in Section V and in the AFCEC BUILDER SharePoint Site Documents Library. Section VI (C10 UNIFORMAT II Minimum Component Reference Table) provides a complete listing of the minimum components inventoried and assessed for C10. Bases may elect to inventory and assess additional components.

NOTE: The SMS Playbook requires inventory and assessment for all Dormitories and for Military Family Housing. Inventory and assessment is required by the current AFCAMP Playbook as project support documentation for consideration in the project prioritization process.

Component Subtypes General, Other, and Unknown require a Section Name to further describe the Component Sections.

It is critical to confirm the year installed (default from Real Property Assets Database (RPAD)) or determine the year installed. BUILDER™ SMS uses the Install Date, life cycle degradation curves and assessment observations to establish a Condition Index (CI) for each Component Section. If the assessor suspects the RPAD default date is not accurate or an addition or renovation has taken place, check the RPAD record for year renovated or check local as-built or renovation drawings to help determine the year installed. Estimated Install Dates decrease the Expected Service Life significantly. Every effort should be made to establish an Install Date and avoid the use of estimated.

If this is an initial assessment and no interior construction inventory has previously been entered into BUILDER™ SMS, an inventory is required. Interior construction components inventoried for USAF buildings are usually visible. When interior construction components are not visible, as-built drawings should be used to identify and quantify the interior construction components. If as-built drawings are not available, the assessor may use experience to make an assumption for the interior construction types and quantities based on similar construction, consultation with local staff and other resources such as www.inspectapedia.com.

The remainder of this section provides photo examples of the most common USAF interior construction inventory items categorized by major components, and accompanied with the appropriate Material Category, Component Subtype and Quantity from the BRED™ drop down menus. This information is supplemented with general and photo specific inventory hints as a guide for data entry by the assessor.

General Interior Construction C10 Inventory Hints

- Privacy screens and interior windows are the only items inventoried under C1010 due to some overlap with C30 Interior Wall Finishes
- Inventory Comments should be recorded to clarify inventory component description if Section Name is insufficient.

B. Inventory C1010 Partitions

Typical interior partitions on USAF bases are:

1. Material Category: C101001 Fixed Partitions
Component Subtype: Wall – Concrete Block
Quantity: SF Year Built/Renewed: RPAD
Painted/Coated: Yes
Inventory Notes: N/A



2. Material Category: C101005 Interior Windows
Component Subtype: Interior Windows
Quantity: EA Year Built/Renewed: RPAD
Inventory Notes:

- Awning windows open outward and give the appearance of an awning
- Quantity shown is 3 EA
- Metal refers to the frame material
- Section Name: Awning Window-Metal



3. Material Category: C101005 Interior Windows
Component Subtype: Interior Windows
Quantity: EA Year Built/Renewed: RPAD
Inventory Notes:

- Window is “Fixed” and does not open
- Metal refers to the frame material
- Section Name: Fixed Window - Metal



4. Material Category: C101005 Interior Windows
Component Subtype: Interior Windows
Quantity: EA Year Built/Renewed: RPAD
Inventory Notes:

- Hopper windows open outward from bottom and give appearance of a hopper
- Metal refers to the frame material
- Section Name: Hopper Window - Metal



5. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Section Name: Security Type – Metal frame



6. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Quantity shown is 2 each
- Section Name: Single Hung Window - Metal



7. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Although there are 2 glass lites, the sliding window is counted as 1 EA.
- Section Name: Sliding Window - Metal



8. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Although there are 12 glass lites, the window is counted as 1 EA.
- This is an exterior window, interior is similar
- Section Name: Double Hung Window - Wood



9. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Section Name: Fixed - Wood



10. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- This is an exterior window, interior is similar
- Section Name: Single Hung - Wood



11. Material Category: C101005 Interior Windows

Component Subtype: Interior Windows

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Section Name: Motorized Ceiling Grille - Metal



C. Inventory C1020 Interior Doors

Typical interior doors on USAF bases are:

1. Material Category: C102004 Sliding & Folding Doors

Component Subtype: General

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Folding partitions and Bi-fold doors are counted as 1 EA.
- Section Name: Folding Partition Door – Vinyl
- Section Name required



2. Material Category: None

Component Subtype: Access Hatch

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Roof hatch inventoried under B30 Roofing if goes to roof and not space
- Inventory and assessment optional



3. Material Category: C102003 Fire Doors

Component Subtype: Fire –Swinging, Metal

Quantity: EA Year Built/Renewed: RPAD

Painted/Coated: Yes/No

Inventory Notes:

- Should have fire rated label on inside edge
- May be held open by magnetic “hold open” device
- Counted as 2 doors



4. Material Category: C102001 Standard Interior Doors

Component Subtype: General

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes: N/A

- These double doors would be counted as 2 EA.
- Section Name: Louver Metal Doors
- Section Name required



5. Material Category: C102005 Interior Overhead Doors

Component Subtype: Metal

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Manual & motorized are captured separately
- Section Name: Manual Overhead Door



6. Material Category: C102001 Standard Interior Doors

Component Subtype: Metal Door

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- These double doors would be counted as 2 EA



7. Material Category: C102090 Interior Specialty Doors

Component Subtype: Other

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Section Name: Vault Door
- Section Name required



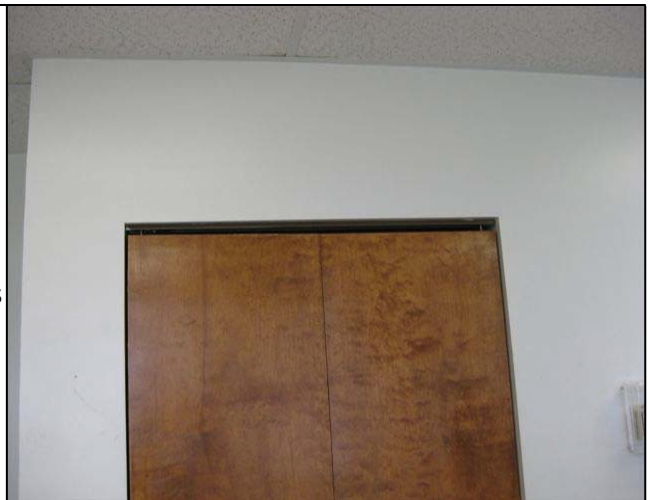
8. Material Category: C102001 Standard Interior Doors

Component Subtype: Wood Door/Wood Frame

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Although multiple leafs, door unit is counted as 1 door
- Section Name: Bi-fold Door



9. Material Category: C102001 Standard Interior Doors

Component Subtype: Wood Door/Wood Frame

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- 2 sections of Dutch door are counted as 1 door
- Section Name: Dutch Door - Wood



10. Material Category: C102001 Standard Interior Doors

Component Subtype: Wood Door/Wood Frame

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Double doors are counted as 2 EA
- Section Name: Louvered Door



11. Material Category: C102001 Standard Interior Doors

Component Subtype: Wood Door/Metal Frame

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes: N/A



12. Material Category: C102004 Sliding & Folding Doors

Component Subtype: General

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Sliding door units are counted as 1 EA.
- Section Name: Sliding Wood Doors
- Section Name required



13. Material Category: None

Component Subtype: Transom

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Transoms can be over or beside door
- Other materials include metal and glass
- Not inventoried or assessed



14. Material Category: C102091 Other Interior Personnel Doors

Component Subtype: General

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Double doors are counted as 2 EA
- Do not count door glass as windows
- Section Name: Fiberglass Reinforced Plastic Doors
- Section Name required



15. Material Category: C102004 Sliding & Folding Doors

Component Subtype: Other

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Both lites in a sliding door unit are counted as a single unit or 1 EA.
- Section Name: Sliding Glass Doors
- Section Name required



16. Material Category: None

Component Subtype: Transom

Quantity: EA Year Built/Renewed: RPAD

Inventory Notes:

- Transoms are not inventoried or assessed



D. Inventory C1030 Fittings

For the USAF BUILDER™ SMS program, Interior Ladders are the only C1030 fitting that may be inventoried and assessed. C1030 inventory and assessment is not mandatory but may be at a base's option.

1. Equipment Category: Metal

Component Subtype: Interior Ladder

Quantity: LF Year Built/Renewed: Est.

Inventory Notes:

- Note Quantity is LF, include ladder and platform in estimate of total length
- Normally metal, wood ladders may also be entered under separate BRED™ dropdown
- Rails and cages are included in inventory



III. Assessment

A. General C10 Assessment Guidance

Interior construction component sections are assessed using Direct Condition Rating (DCR). Usually interior construction components will be visible. When component sections are not visible, no assessment is required and an Age-Based Rating is given by BUILDER™ SMS. In this case BUILDER™ SMS will use the inventory Year Installed and lifecycle degradation curves in the software to establish the CI.

When interior construction component sections are visible, they should be assessed. The on-site assessment is determined based on the assessor's observations compared to the Direct Condition Rating (DCR) Definitions chart for major components C1010, C1020 and C1030. The "Rating" reflects observed deterioration, impact on operability and repair requirements based on the chart below and the assessor's professional judgment.

Under no circumstances should age be factored into a DCR or Distress Survey assessment. Ratings are based on condition, operability and/or survivability only. BUILDER™ SMS already factors in the age when calculating Condition Index (CI).

The following conditions or events can accelerate interior construction deterioration and should be considered by the assessor:

- Moisture damage due to roof or pipe leaks
- Damage due to personnel or equipment
- Improper construction or installation
- Neglected maintenance

NOTE: Red highlighted text is provided as an example of a lifecycle of typical components and should be adjusted as needed to represent other various components.

Direct Condition Rating (DCR) Definitions	
Rating	Observation
Green (+)	Fully Operational - Free of Known or Observable Defects Keep doing PM required to maintain warranty - no action required

Green	Fully Operational - Slight Deterioration or Minimal wear Keep doing PM - no action required
Green (-)	Fully Operational – Normal wear and/or serviceability defects Keep doing PM - need to start planning for rehabilitation
Amber (+)	Reduced Operation – Minor wear and/or serviceability defects Repairs could be accomplished and replacement planned within next eight to ten years (Investment of resources could extend life)
Amber	Reduced Operation – Moderate wear and/or serviceability defects Repairs could be accomplished and replacement planned within next six to seven years (Investment of resources could extend life)
Amber (-)	Reduced Operation – Significant wear and/or serviceability defects Repairs could be accomplished and replacement planned within next three to five years (Investment of resources could extend life)
Red (+)	Loss of Operation – Moderate wear and/or serviceability failure Repairs could be accomplished and replacement planned within next two years (Run to failure - further investment unwise)
Red	Loss of Operation – Significant wear and/or serviceability failure Repairs could be accomplished and replacement planned within the next year (Run to failure - further investment unwise)
Red (-)	Loss of Operation – Complete wear and/or serviceability failure Replacement needs to be planned immediately

BUILDER™ SMS provides the ability for the assessor to rate component painted or coated surfaces. Some interior components include manufacturer (or factory) finishes. These finishes tend to age consistent with the components. Other components have local or field applied paints or coatings. The DCR Definitions - Coatings chart below should be used by the assessor to rate non- manufacturer applied coatings. This chart should be used to rate coatings for:

- Interior & exterior walls
- Window frames
- Doors
- Drywall finish
- Concrete & CMU wall finishes

The assessor should match actual coating observations listed in the chart and apply the corresponding “Rating.” Do not forget to check the “paint box” in BRED™.

Direct Condition Rating (DCR) Definitions - Coatings	
Rating	Observation
Green (+)	Perfect condition. No visible deterioration.
Green	Little visible deterioration.
Green (-)	Some visible deterioration.
Amber (+)	Minor visible deterioration.

Amber	Moderate visible deterioration.
Amber (-)	Major visible deterioration.
Red (+)	Significant visible deterioration.
Red	Severe visible deterioration.
Red (-)	Complete deterioration.

B. Assessment C1010 Interior Partitions

Below are assessment hint questions to help the assessor determine the most appropriate DCR and examples of common distresses.

C1010 Assessment Hint Questions

- What distresses or problems are observed?
- What is the quantity and severity of the distresses?
- Do operable windows operate and secure properly?
- Will repairs preserve or extend the remaining service life of the partition?

Based on above:

- Select a DCR from the chart.
- If assessment "Rating" is **Amber +** or below, enter an Inspection Comment to describe the distress and assessment. Take a photograph and attach to the assessment to document the condition.
- Remember: Due to some overlap in the BUILDER™ SMS, interior components, privacy screens and interior windows are the only items inventoried under C1010 Interior Partitions. Interior partitions (walls) are captured under C3010 Interior Wall Finishes.

Examples of typical toilet partition distresses or conditions include:

1. Typical Distress:

Picture is of a typical masonry toilet partition. Common distresses or conditions include, but are not limited to:

- Damaged CMU block
- Mortar joint deterioration due to exposure to moisture
- Paint deterioration due to exposure to moisture



2. Typical Distress:

Picture is of a typical metal toilet unit. Common distresses or conditions include, but are not limited to:

- Broken wall and/or floor anchors or doors
- Corroded floor anchors due to continuously wet floors.
- Rust/corrosion due to exposure to moisture



C. Assessment C1020 Interior Doors

Below are assessment hint questions to help the assessor determine the most appropriate DCR and examples of common distresses.

C1020 Assessment Hint Questions

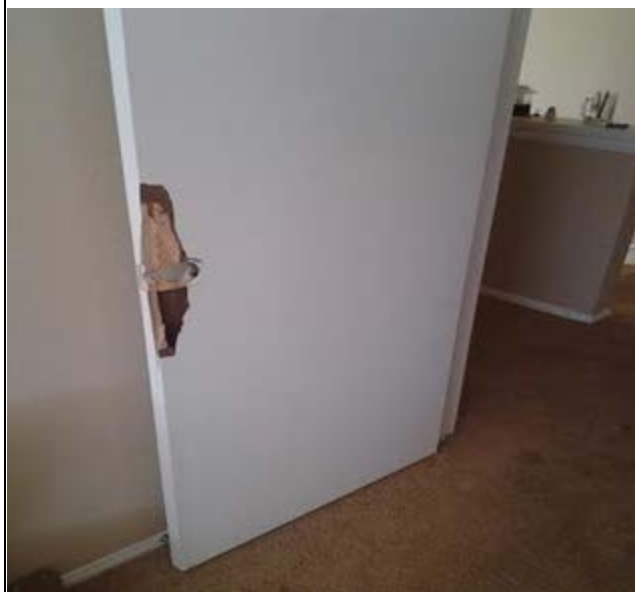
- What distresses or problems are observed?
- What is the quantity and severity of the distresses?
- Are doors damaged? Do they function and secure properly?
- Will repairs preserve or extend the remaining service life of the door?

Based on above:

- Select a DCR from the chart.
- If assessment "Rating" is **Amber +** or below, enter an Inspection Comment to describe the reason or for any significant issue. Attach a photograph documenting the condition.

Examples of typical door distresses or conditions include:

1. Typical Distress: Damaged



2. Typical Distress:



D. Assessment C1030 Fittings

Below are assessment hint questions to help the assessor determine the most appropriate DCR and examples of common distresses.

C1030 Assessment Hint Questions

- What distresses or problems are observed?
- What is the quantity and severity of the distresses?
- Is ladder damaged?
- Will repairs preserve or extend the remaining service life of the ladder?

Based on above:

- Select a DCR from the chart.
- If assessment "Rating" is **Amber +** or below, enter an Inspection Comment to describe the reason or for any significant issue. Attach a photograph to document the condition.

Examples of typical ladder distresses or conditions include:

1. Typical Distress:

- Although the ladder to the right shows no distresses, common distresses are:
 - Loose or broken bolt connections at floor or wall.
 - Damaged rungs or vertical supports from vehicle traffic (in shops)
 - Rust
 - Damage to safety rail or cage
 - Missing/damaged safety climb components



IV. Inventory and Assessment Rules of Thumb

A. Assessor Qualifications

- The architectural/structural assessor should have a combination of 8+ years of general building construction, facilities maintenance and planning/estimating experience related to building foundations, structure, enclosure and interior construction and be equivalent to a Journeyman, a V Level Technician, an Architect or Civil Engineer. The assessor should have a working knowledge of the ASTM E 1557 Standard Classification for Building Elements UNIFORMAT II and a basic understanding of other building systems such as HVAC, Plumbing, Fire Protection and Electrical. The assessor should be able to identify common building materials, techniques and structural/architectural system types/elements, be proficient at reading drawings and engineering reports and have experience identifying common problems related to architectural/structural systems. The lead architectural/structural assessor may be supported by less experienced staff

during the inventory and assessment.

B. Year Installed

- In some cases interior construction sections may be replaced as an individual repair or partial replacement. These areas would have a different age. The RPAD construction and renovation dates should be confirmed. If they are not appropriate, the interior construction age must be estimated. The building occupants or other facilities staff may be able to provide some information.
- If construction drawings or As-Built are available, look for date published to assist with determining age of materials.
- Additions, new wings or major renovations likely require identifying a separate Interior Partitions or Interior Doors sections with a different age.
- In the case of interior construction, the assessor must use judgment in sectioning interior partitions or doors. In large buildings with many interior partitions or doors, these components should be sectioned in the manner they are generally managed. If there are interior partitions or doors, a separate section for a single new interior partitions or doors is not necessary. However, if there are two major types or ages of interior partitions or doors then separate sectioning is a good idea.
- The year or date manufactured for interior doors may be visible on a label on the door edge (hinge side) in determining age.
- In some of the newer metal doors, the jamb in most cases will be stamped normally on the hinge side. For most types of doors look at the hinges - are they a four barrel or a three barrel hinge? Most four barrel hinges are 1975 or older; most three barrel hinges are newer.

C. Inventory/Assessment

- Interior Partitions: Toilet partitions, privacy screens and metal fabric (security cages and chain link fence) are the only partitions assessed in interior partitions. All drywall, masonry, plaster, wood, etc. partitions are assessed under C3010 interior wall finishes.
- Interior windows are assessed as part of the interior partition. The partition is assessed with C3010 wall finishes and any interior windows are assessed as part of C1010 Interior Partitions. When counting interior windows, look at a window unit in the way it will be purchased, removed and installed. A unit of one (1) may be a frame with more than one lite of glass. Caulk joint locations are usually a good indicator.
- Double doors are counted as 2 EA single doors.
- Transoms and sidelights on doors are entered as transoms with a note in the comments.
- If a sliding door and frame appears to be have been bought and installed pre-hung, then the 2 door leaves are combined as 1 total unit, or 1 EA. If it appears the frame is a hollow metal or wood frame and 2 door leaves match all the other doors in the building, then count them as 2 doors, or 2 EA.

V. Inventory / Assessment Data Collection Sheet

The following data collection form is included as a recommendation and may also be found in the Tool Box. Many assessors also use floor plans or a notebook. Use whatever collection method works best for the individual assessor.

Architectural Inventory Sheet

Building											Date:	
Assessor:	1FL	2FL	3FL	4FL	contact					Length x width	Date Built or Renewed	
Superstructure												
Exterior Ramp/Loading dock												
Foundation					SOG	STRIP	SPREAD	Pier (LF)				
Roof Construction					Metal	Wood	Other					
Stairs Metal					1/2 sets		Full sets					
Stairs Wood					1/2 sets		Full sets					
Stairs Concrete					1/2 sets		Full sets					
Exterior Walls												
Exterior Walls 2												
Exterior Ladder (LF)												
Exterior Windows												
Exterior Windows 2												
Exterior doors					Metal		Glass		Wood			
Exterior Other doors												
Interior Construction												
Partitions												
Partitions 2												
Partitions 3												
Interior Doors wood					Metal		Glass		Wood			
Interior Doors Other												
Interior Ladder (LF)												
Interior Stairs Metal					1/2 sets		Full sets					
Interior Stairs Wood					1/2 sets		Full sets					
Interior Stairs Concrete					1/2 sets		Full sets					
Interior Finishes												
Wall Finishes												
Drywall												
Ceramic tile												
Acoustical												
Plaster												
Other												
Floor Finishes												
Carpet												
Ceramic tile												
Epoxy												
Linoleum												
Wood												
Rubber												
VCT												
Other												
Ceiling Finishes												
Acoustical Suspended												
Acoustical Attached												
Drywall												

Architectural Inventory Sheet

Building											Date:	
	1FL	2FL	3FL	4FL	contact					Direct Rating		
Superstructure												
Exterior Ramp/Loading dock												
Foundation					SOG	STRIP	SPREAD	Pier (LF)		Age Base	Age Base	
Roof Construction					Metal	Wood	Other			Age Base	Age Base	
Stairs Metal					1/2 sets		Full sets					
Stairs Wood					1/2 sets		Full sets					
Stairs Concrete					1/2 sets		Full sets					
Exterior Walls												
Exterior Walls 2												
Exterior Ladder (LF)												
Exterior Windows												
Exterior Windows 2												
Exterior doors					Metal		Glass		Wood			
Exterior Other doors												
Interior Construction												
Partitions												
Partitions 2												
Partitions 3												
Interior Doors wood					Metal		Glass		Wood			
Interior Doors Other												
Interior Ladder (LF)												
Interior Stairs Metal					1/2 sets		Full sets					
Interior Stairs Wood					1/2 sets		Full sets					
Interior Stairs Concrete					1/2 sets		Full sets					
Interior Finishes												
Ceiling Finishes												
Acoustical Suspended												
Acoustical Attached												
Drywall												
Plaster												
Popcorn												
Concrete												
Other												
Floor Finishes												
Carpet												
Ceramic tile												
Epoxy												
Linoleum												
Wood												
Rubber												
VCT												
Other												
Wall finishes												
Drywall												
Ceramic tile												
Acoustical												
Plaster												
Other												

VI. C10 UNIFORMAT II Minimum Component Reference Table

The following table provides SMS MINIMUM inventory and condition assessment requirements. The table effectively provides a list of WHAT will be inventoried, WHERE within the SMS the component inventory will reside and HOW a component is to be condition assessed. The structure of the list is within UNIFORMAT II to be consistent with BUILDER™ SMS. Currently all components are Direct condition assessed. Eventually, Distress assessments may be conducted on selective components.

PM Inspection/Testing Directive column gives information on any Air Force applicable publication providing Preventative Maintenance (PM) actions that, once conducted, provides information on a component's condition assessment. Preventive Maintenance Task Lists (PMTLs) or other inspections may be considered a Distress type assessment in the future for some components.

Condition assessment frequency is not to exceed 5 years. Condition assessments conducted as part of a PMTL may be entered into SMS but should not be more often than an annual assessment.

AMP reflects the AMP to which the component is assigned:

F: Facility AMP

C	INTERIOR				DEFINITION	In Builder/ Fueler/ Paver/ Railer/ Utility	PM Inspection/ Testing Directive	Insp/ Assess Freq	SMS Type Insp	Assessment Method	AMP/ Sub- AMP
Unf L1	Unf L2	Unf L3	WBS L4		Construction which takes place inside the exterior wall or exterior closure. The system does not include interior structural walls, which are included in B1010 FLOOR CONSTRUCTION and B1020 ROOF CONSTRUCTION.						
				C10 INTERIOR CONSTRUCTION	This assembly includes partitions, interior doors, and specialties.						
				C1010 PARTITIONS	Includes all interior partitions.						
			C101001	FIXED PARTITIONS	Interior fixed partitions include metal or wood studs, sheetrock, masonry, and concrete walls.	B	N/A	5 yr	Direct	Visual	F/S & F
			C101005	INTERIOR WINDOWS	Fixed or operable windows. Assemblies would include frames, glazing, caulking and other associated work.	B	N/A	5 yr	Direct	Visual	F/S & F
			C101006	GLAZED PARTITIONS & STOREFRONTS	Fixed interior glazed partitions including interior storefronts with doors. Assemblies include frames, glazing, caulking, and other associated work.	B	N/A	5 yr	Direct	Visual	F/S & F
				C1020 INTERIOR DOORS	All interior doors.						
			C102001	STANDARD INTERIOR DOORS	Assemblies include all standard interior wood or hollow metal doors with frames, finish, etc.. Standard interior door may include vision lites. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102002	GLAZED INTERIOR DOORS	Assemblies include all glazed interior doors with glass, frames, finish, including storefront, etc.. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102003	FIRE DOORS	Assemblies include all interior fire doors, including all necessary frames, and sensing devices integral with the door. Interior door hardware is located in C102007 INTERIOR DOOR HARDWARE.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102004	SLIDING & FOLDING DOORS	Assemblies include all sliding and folding doors with frames, hardware, locking devices, tracks, and supporting systems. The unit of measure at the assembly level is each.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102005	INTERIOR OVERHEAD DOORS	Overhead doors installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit of measure at the assembly level is each door.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102090	OTHER INTERIOR SPECIALTY	Any special type door installed in the interior of a facility. Assemblies include frames, hardware, hoisting devices, and finish and other associated work. The unit measure at the assembly level is each gate.	B	N/A	5 yr	Direct	Visual	F/S & F
			C102091	OTHER INTERIOR PERSONNEL	Interior personnel doors not described by the assembly categories listed above.	B	N/A	5 yr	Direct	Visual	F/S & F
				Cipher Lock		B	N/A	5 yr	Direct	Visual	F/S & F