# The unambiguous NL-SfB table 1.

- Published on 26 January 2022
- Edit article
- View statistics





## Menno Mekes

BIM specialist [Arons and Gelauff architects] <u>14 items</u>

# What do you mean? We have been working with the latest update since December 2019, haven't we?

Yes, you thought so. Me too though. Until I was on the other side of the model.

This article is quite long and gets more and more technical the further you read. As you are used to from me. In any case, read up to and including the download link. Then you know enough about the how and why.

I have created a very nice series of BIMcollab ZOOM (BCZ) Smart Views and Lists with which we can check our own models before we send them. The beauty of BCZ is its simplicity. The Ifc is read and displayed. Anyone can use the free version. And with that, filter the model in all desired ways. What is not possible is to create classifications as can be done in Solibri. There, different properties that should actually be called the same can be lumped together. It looks like this:

ettings Classification Rules Uni	lassified Components	Classified Components					
a a d' d*   ^ v 🗈 🖗							
Uniformat Classification	Løyer	NL-SfB nummercode Classification	NL/SfB	NL/SfB (4 cijfers)	Mechanical.System Name	NL-SfB Classification	Classification Names
	•	•	•	•	31.20*		31.20 - buitenwandopeningen - gevuld met ramen. algemeen (verzamelniveau)
	*			*	*	31.20*	31.20 - buitenwandopeningen - gevuld met ramen, algemeen (verzamelniveau)
1.21*		*	*		*	2	31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
	31.21*		*	*			31.21 - buitenwandopeningen - gevuld met ramen, gesloten ramen
		31.21*			•		31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
	•	•	31.21*	•	•		31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
		*		31.21*	•		31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
		•			31.21*		31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
	*	*	*	*	*	31.21*	31.21 - buitenwandopeningen - gevuld met ramen. gesloten ramen
22×			*	*	*		31.22 - buitenwandopeningen - gevuld met ramen, ramen draaiend aan een kant
	31.22*	•		•			31.22 - buitenwandopeningen - gevuld met ramen. ramen draaiend aan een kant
	•	31.22*			•		31.22 - buitenwandopeningen - gevuld met ramen. ramen draaiend aan een kant
	•	•	31.22*	•	•		31.22 - buitenwandopeningen - gevuld met ramen. ramen draaiend aan een kant
		•	•	31.22*	•		31.22 - buitenwandopeningen - gevuld met ramen. ramen draaiend aan een kant
			*		31.22*		31.22 - buitenwandopeningen - gevuld met ramen. ramen drasiend aan een kant
			*	*		31.22*	31.22 - buitenwandopeningen - gevuld met ramen. ramen draaiend aan een kant
23*		•	*	•			31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
	31.23*	•		•	•		31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
	•	31.23*		•	•	•	31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
	•	•	31.23*	•	•	•	31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
		•	•	31.23*	•		31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
		•	*	*	31.23*	*	31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
		•	*	•		31.23*	31.23 - buitenwandopeningen - gevuld met ramen. schuiframen
.24*		•					31.24 - buitenwandopeningen - gevuld met ramen. ramen draaiend op verticale of h
	31.24*	•	•	•	•		31.24 - buitenwandopeningen - gevuld met ramen. ramen draaiend op verticale of h
	•	31.24*	*	•			31.24 - buitenwandopeningen - gevuld met ramen, ramen drasiend op verticale of h
		*	31.24*	*	*	*	31.24 - buitenwandopeningen - gevuld met ramen. ramen draaiend op verticale of h
		•	*	31.24*	•		31.24 - buitenwandopeningen - gevuld met ramen, ramen drasiend op verticale of h
	•		*	•	31.24*		31.24 - buiterwandopeningen - gevuld met ramen. ramen draaiend op verticale of h
	•	-			•	31.24*	31.24 - buitenwandopeningen - gevuld met ramen. ramen draaiend op verticale of h
.25*	•			•	•	•	31.25 - buitenwandopeningen - gevuld met ramen. combinatieramen
	24.25*					•	NUMBER OF THE OWNER

Each column contains a name of a classification. Without additional settings, the Assembly Code in Revit is exported to Uniformat. The name then becomes Uniformat Classification'. We have NL-SfB, NL/SfB, NL-SfB table 1, NL/SfB (4 digits), NL/SfB (4 digits) and so on. If a new model is loaded in Solibri, there is a good chance that you will have to adjust this classification. The last column states what it should actually be called. The names in the first columns are baked into the Ifc. It is a so-called IfcClassificationReference. A special, and particularly versatile, entity within the Ifc scheme.

This is what the bim directors do. Working with what they are offered. Some go further and prefer to edit the ifcs rather than tackle it at the source. Just look at the 'Solibri Classification tool' that Daan Arts shows. It dissolves at the back. The same goes for the IfcElementAssemblies which have already been talked about a lot here. Juun Steen has developed a Tool that I have tested extensively and that our contractors are very happy with. So that road is not wrong. Very good even. But some things are really better to solve at the source.

- When the same things are called the same thing, everyone can find them.
- When the same things with the same name have the same content, they are really the same.

### But we still comply with BIM base IDM tile 3.6?

**In principle, yes.** If your code and description is correct, you comply. Because tile 3.6 is part of chapter 3. And it's about each aspect model individually.



Home NL/SfB >

### Documentatie

### WHITE PAPER: VISIE OP HET (TOEKOMSTIG) GEBRUIK VAN NL/SFB

Kunnen we de NL/SfB-classificatie geschikt maken voor nieuwe toepassingen gericht op het coderen van objecten in BIM-modellen? Of zal dit gezien de enorme legacy van deze standaard op te veel weerstand stuiten, en kunnen we ons beter richten op andere (bestaande of te ontwikkelen) systemen die daarvoor beter geëigend zijn? Op grond van deze kernvragen heeft de Beheercommissie NL/SfB een visie geformuleerd en vastgelegd in een White Paper. Een belangrijk uitgangspunt daarbij is dat de commissie vindt dat de NL/SfB classificatie beschikbaar moet blijven.

Download hier de White Paper NL/SfB

#### NL/SFB DIGITAAL

NL/SfB kent een lange historie en heeft zijn wortels in het analoge tijdperk. In het verleden zijn door een gebrek aan actueel beheer verschillende NL/SfB dialecten ontstaan. Om deze verwarring weg te nemen heeft het BIM Loket samen met STABU en BNA een volledige lijst digitaal gepubliceerd, die is afgestemd op de gedrukte uitgave. Deze basislijst is als download beschikbaar.

NL/SfB Boekuitgave 2005
 NL/SfB Versie 2005

#### UPDATE INSTALLATIETECHNIEK



NL/S/B Versie update 201912
 Release notes NL/S/B Uitgave 2019
 Toelichting NL/S/B Uitgave 2019

In principle, no. Because we refer to the NL-SfB table 1 and it is <u>here on BIM Loket</u> (Dutch organisation that collects, maintains and spread the BIM documents, standards etc.) and has been drawn up by Ketenstandaard. (The organisation that owns the NL-SfB Classification) In December 2019, chapters 5 and 6 were significantly modified. That's great for the installation world. But also for us structural engineers because now we can use 61.15. All the lists I have come across are not an exact match with this list.

I especially came across the 2005 list. After the update, the owners of the NL-SfB lists for the various software did not pick this up or did not pick it up properly. Lists that do have the 2019 update in them contain errors, incompleteness but above all: the exact description, column F of the table, has not been copied exactly. So we filter with the correct name of the classification but with the wrong content we still have 2 different lines in our viewer.

**In principle, no.** Because we promise to speak a common language. And we do that but in our own dialect. That dialect is spoken by the various modeling software. And that is why we exchange information by means of the Ifc scheme. And not through the source files. And so everything has to be translated correctly according to the agreements we make.

# Menno, if you complain you always have a solution ready, right?

Definitely! If you work with Sketchup, Revit or Archicad at least.

With this software we are now modelling <u>Wisselspoor field 6, 9 and 10 in Utrecht</u>. <u>Office</u> <u>Winhov</u> and <u>Beta</u> work in Archicad. <u>Goudstikker de Vries</u> models the construction in Revit. <u>Arons and Gelauff</u> works in a hybrid form of Revit and Sketchup. I take care of the BIM coordination. Our client, <u>Synchroon</u>, would also like to look into the models. That is why I have limited myself to these three for the time being.

## The NL-SfB lists can be found here.

Let's dive deeper into the matter. You can stop reading here. Or scroll to the software you use.

For Sketchup and Archicad, the .xml files are both structured slightly differently. Revit has a .txt file that is easy to load to fill in the Assembly Code. In addition to the content, the name of the classification must be correct. In the BIM base IDM tile 3.6 we recommend using the name 'NL-SfB tabel 1'. We are talking about the text that becomes visible in your favorite viewer. The name of the IfcClassificationReference. In SketchUP, that's no problem at all. The name you give is the name it becomes. In Archicad, the name will be given a suffix of the version. In Revit, a suffix 'Classification' is added. This is baked in the exporter and I can not remove or change it. If you can: call me! (Yes Sol and Jacob....you've got the power and connections to fix this)

For this reason, the classifications are called 'NL-SfB tabel 1 Classification'. This is (for now / for me) the only way to lump all the IfcClassificationReferences of the NL-SfB together and make everyone's life easier.

## REVIT

For those who prefer to fill in the NL-SfB as an instance parameter, want to link in nested Families or want to secure the classification in a formula, I can use my Dynamo graphs. In <u>this article</u> I explain that. The graphs are now suitable for Revit 2022 / Dynamo 2.12. You can find them <u>here</u>.

Most of you prefer to just click through the Assembly Code. Also very good. Make sure you set the export settings correctly. Fill in the Name correctly: **NL-SfB tabel 1**. At Classification field name you enter **Assembly Code**. Now the IfcClassificationReference is called: **NL-SfB tabel 1 Classification** in the Ifc export. (Instead of Uniformat Classification.)

Modify Setup			×
<pre><in-session setup=""> <ifc2x3 2.0="" coordination="" setup="" view=""> <ifc2x3 coordination="" setup="" view=""> <ifc2x3 2010="" bim="" concept="" design="" gsa="" setup=""> <ifc2x3 basic="" fm="" handover="" setup="" view=""> <ifc2x2 coordination="" setup="" view=""> <ifc2x2 coordination="" setup="" view=""> <ifc2x3 2.4="" cobie="" deliverable="" design="" setup=""> <ifc4 reference="" setup="" view=""> <ifc4 reference="" setup="" view=""> <ifc4 design="" setup="" transfer="" view=""> AG project</ifc4></ifc4></ifc4></ifc2x3></ifc2x2></ifc2x2></ifc2x3></ifc2x3></ifc2x3></ifc2x3></in-session></pre>	General       Additional Content       Property Sets       Level         Export Revit property sets       ✓       Export IFC common property sets         Export schedules as property sets       Export schedules as property sets         Export user defined property sets         K:\Pset_AG.txt         Export parameter mapping table	of Detail Advanced or Common in the title Classification Settings	Browse
< >> 1 (h) (iii) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	Classification Settings	Name Source (Publisher) Edition Edition date Documentation location Classification field name	NL-SfB tabel 1 BIM loket NL/SfB Versie update 201912 1-12-2019 5 https://stprodeuwmystabu002stor.blob.core.windows.ne Assembly Code OK Cancel

Here you can find the list: <u>https://github.com/MennoMekes/NL-SfB-tabel-1-</u> Classification/tree/Revit. Click the arrow next to Code on the green button and then Download ZIP.

양 Revit → 양 4 branches ⓒ 0 tags	Go to file Add file 👻 Code 🗸
This branch is 1 commit ahead, 1 commit behind main.	Clone (?)
MennoMekes Create README.md	https://github.com/MennoMekes/NL-SfB-tabe:
NL-SfB tabel 1 Assembly Code.txt Add files via upload	
README.md Create README.md	Open with GitHub Desktop
	🗊 Download ZIP 💙 🖑

Setting up is easy. You probably already know it.



- 1. Manage
- 2. Additional Settings
- 3. Assembly Code
- 4. Browse
- 5. View to view the file if you want.

That's all you have to do. A small effort, right?

### ARCHICAD



In Archicad you can load as many classifications as you want. This is very useful if you also want to use other encodings in addition to the NL-SfB.

These files are structured in a certain way. Here on the right you see part of the .xml file. Pretty clear, right?

Here you can find the list: <u>https://github.com/MennoMekes/NL-SfB-tabel-1-</u> <u>Classification/tree/Archicad</u>. Click the arrow next to Code on the green button and then Download ZIP.

ያ Archicad - ያ 4 branches 🔊 0 tags	Go to file Add file - Code -
This branch is 3 commits ahead, 1 commit behind main.	Clone (3)
MennoMekes Create README.md	https://github.com/MennoMekes/NL-SfB-tabe:
NL-SfB tabel 1 Classification.xml Add files via upload	
README.md     Create README.md	Gen with GitHub Desktop
	Download ZIP

To load the correct list, first go to the Classification Manager. This is in the IFC toolbar or you go to the pull-down menu 'Options'. At the bottom, click on import:

Classification Manager		1	×		
ыщ α [	+ CLASSIFICATION SYSTE	M DEFINITION			
> @ ARCHICAD Classification - NED 2.0	Name:	ARCHICAD Classification			
	Version	NED 2.0			
	Date:	23- 7-2019	10		
	Source:	www.graphisoft.com			
	Description		1		
	* AVAILABLE PROPERTIES				
	Properties available for the	selected Classification(s):			
	○ All ○ None ④ Cuttom Idit Transfer:	Aanschappig: priCOUCTINFORMALIE Aanschappig: priCOUCTINFORMALIE (Expressiond) Afmetingen tegel (AFWERKING) Afschultmodulus (MECHANSCH (materialen)) Barschapping (ALGEMEEN (materialen)) Beschapping (ALGEMEEN (materialen))			
Show coefficits with Classification in Hotioks	12 13	Property Manager			
	2				

### And load the file:

Classification Manager		1 ×					
Ξ Q [	- CLASSIFICATION SYSTEM	DEFINITION					
> @ ARCHICAD Classification - NED 2.0	Name:	NL-SfB tabel 1					
✓	Version	Classification					
	Date:	1-12-2019					
D 2- RUWBOUW	Source	http://bimioket.nl/NL-SPB					
> 🙊 3- AFBOUW > 🙊 4- AFWERKINGEN > 🙊 5- INSTALLATIES WERKTUIGBOUWKUNDIG	Description:	Kies hieronder een NJ,SIB kodering. Deze code wordt als drclassificatie aan het geselecteerde element toegevoegd. The NJ/SIB (4 digits) standard defines a classification and information coding system for the ABC v					
> D & INSTALLATIES ELEXTROTECHNISCH	* AVAILABLE PROPERTIES						
> 90 7- VASTE VOORZIENINGEN	Properties available for the selected Classification(s):						
) D 9-TERREN	OAR	A					
	None						
	() Custom						
	. Edit	1					
	Transfer:	4					
	12 13	Property Manager					
Show conflicts with Classification in Hotlinks							
New • Delete 🛈 🕑 🕑		Cancel OK					

What you see with the Classification system definition is that the name is 'NL-SfB tabel 1'. Below that is the version. instead of a date or number, it says 'Classification'. This is, as explained earlier, a way to keep all the names of the classifications exactly the same. In Archicad you can now provide the elements with the correct NL-SfB coding + name in the usual way:

Seided 2 batain 2   Classification 2 Cl	Wall Selection Settings	1	×
	☆・	Selected: 2 Editat	6e: 2
in plant   1   3000	- DI GEOMETRY AND POSITIONING		11
1. It verdisping Plane + 1)   Image: Stope   3550,0   3550,0   3550,0   3550,0   3550,0   0.0    0.0   0.0   0.0    0.0    0.0    0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0	Top Link:		
3500   3500	1. 1e verdieping (Home + 1)	л п л	
Stand 2000     Stand 20000     Stand 20000     Stand 20000     Stand 20000     Stand 20000	-350,0	ALG Binnenwand NC	
Generation       Marcel         Generation       No         Begane grand       Reference line:         Q.0       Reference line:         CLASSIFICATION AND SECTION       Reference line:         CLASSIFICATION AND PROPERTIES:       CLASSIFICATION AND PROPERTIES:         CLASSIFICATION AND PROPERTIES:       CLASSIFICATION PROPERTIES:         CLASSIFICATION AND PROPERTIES:       Statisfication:         M.R.GBS tabel 1 - Classification:       0.0 Inderder projectorscriptiongen         M.R.GBS tabel 1 - Classification:       0.0 Inderder projectorscriptiongen         D AND CATEGORIS       0.0 Inderder grapheres       2.12 binnerwander; net constructief, spouwander:         D AND CATEGORIS       0.0 Inderder grapheres       2.12 binnerwander; net constructief, spouwander:         D Structural Fundion       Load-bearing Element       Cancel       0.2 binnerwander; constructief, spouwander:         2.12 binnerwander:       1.00       V.W.M.A.	2850,0		
tome Stop: 0. Begane grond to Project Zero P Protock C OFFSET MODORIES F. PROOR FLAN AND SICTION MODEL MODEL CLASSFICATION AND PROPERTIES CLASSFICATION AND PROPERTIES CLASSFICAT	0,0	Π Π Δ. Πα 19.00	z
0. Begare grand     to Project Zero P     0.0     PROPRIE OFFSET MODORIES     Image: Propriet Construction     Image: Proprint Construction	fame Story:		
to Project Zero     Reference Line:     Q0     PROPRIE OFFSET MOODELESS     FROOME OFFSET MOODELESS     FROOME OFFSET MOODELESS     CLASSFICATION AND SECTION     CLASSFICATION AND PROPERTIES     CLASSFICATION AND PROPERTIES     CLASSFICATION AND PROPERTIES     CLASSFICATION AND PROPERTIES     CLASSFICATION S        CLASSFICATION	0. Begane grond ~		
PROPIEC OFFSET MODIFIES     IL FLOOR PLAN AND SECTION     CASSIFICATION AND SECTION     CASSIFICATION AND PROPERTIES     CLASSIFICATION	to Project Zero		
FILODA RAND SECTION Characterization and properties CLASSFICATION AND PROPERTIES CLASSFICATIONES CLASSFICATIONES CLASSFICATIONES CLASSFICATIONES D AND CATEGORES D AND CATEGORES D Wand-x Structural Function Vand-x Structural Function Vand-x Structural Function Vand-x Cancel OK 21 Builtenneurander, net constructief, algemeen (verzamelniveau) 22.2 binneurander,	<ul> <li>B. PROFILE OFFICE MODIFIERS</li> </ul>		
Image: Process Francess         CLASSFICATION AND PROPERTIES         CLASSFICATIONS         ARCHCAD Classification - NED 2.0         Wand         Micross table 1 - Classification         CLASSFICATIONS         ARCHCAD Classification - NED 2.0         Wand         Image: Classification - NED 2.0         Wand - Classification - NED 2.0         Image: Classification - NED			
ID AND CATEGORES      D A			
CLASSIFICATIONS         ✓ ARCHICAD Classification - NED 2.0       Wand         ✓ MILOSTE tablet 1 - Chassification       00 Indirectir projectiroscenteringen       Image: Classification               ✓ MILOSTE tablet 1 - Chassification       00 Indirectir projectiroscenteringen       Image: Classification               ✓ MILOSTE tablet 1 - Chassification       00 Indirectir projectiroscenteringen       Image: Classification               ✓ MILOSTE tablet 1 - Chassification       00 Indirectir projectiroscenteringen       Image: Classification               ✓ ID ANIO CATEGORIES       Image: Classification             Image: Classification             Image: Classification               Ø © 21 Butterwanden       Image: Classification             Image: Classification             Image: Classification             Image: Classification               Ø © 21 Butterwanden       Image: Classification               Image: Classification               Image: Classification	* E CLASSIFICATION AND PROPERTIES		
ACCHICAD Classification - NED 2.0 Wand     ACCHICAD Classification 0-0 Indirecte projecteosorbieringen     ACCHICAD Classification     OLD Indirecte projecteosorbieringen     OLD Indirecte projecteosor	CLASSECATIONS		
<ul> <li>NL-StB tabel 1 - Classification Q-D Indirecte projectivooraleningen</li> <li>Found 12 Classification;</li> <li>Classification;</li> <li></li></ul>	ARCHICAD Classification - NED 2.0 Wand		Q. 22.
Classification     22.0 binnerwander; algemeen     22.1 binnerwander; niet constructief     22.10 binnerwander; niet constructief     22.10 binnerwander; niet constructief     22.10 binnerwander; niet constructief     22.10 binnerwander; niet constructief     22.11 binnerwander; niet constructief     22.12 binnerwander; niet constructief, algemeen berzamelnive     22.11 binnerwander; niet constructief, algemeen berzamelnive     22.11 binnerwander; niet constructief, assileve wanden     22.12 binnerwander; niet constructief, systeemwander; varst     22.12 binnerwander; niet constructief, systeemwander; varst     22.13 binnerwander; niet constructief, systeemwander; varst     22.14 binnerwander; niet constructief, systeemwander; verplaa     22.21 binnerwander; constructief     22.20 binnerwander; constructief     22.20 binnerwander; constructief, algemeen (verzamelniveau)     22.21 binnerwander; constructief, massieve wanden     22.21 binnerwander; constructief, massieve wanden     22.21 binnerwander; constructief, massieve wanden	NL-SIB tabel 1 - Classification 00 in	irecte projectivoorzieningen.	Found 12 Classification(s):
E22 D binnerwander; sigt constructief     22.1 binnerwander; niet constructief     22.10 binnerwander; niet constructief     22.10 binnerwander; niet constructief, sigereen berzamelnive     22.11 binnerwander; niet constructief, sigereen berzamelnive     22.12 binnerwander; niet constructief, sigereen berzamelnive     22.12 binnerwander; niet constructief, sigereen berzamelnive     22.12 binnerwander; niet constructief, sigereen berzamelnive     22.13 binnerwander; niet constructief, systeemwander; vast     22.14 binnerwander; niet constructief, systeemwander; vast     22.2 binnerwander; niet constructief, systeemwander; vast     22.2 binnerwander; niet constructief, systeemwander; vast     22.2 binnerwander; constructief     22.2 binnerwander; constructief     22.2 binnerwander; constructief     22.2 binnerwander; constructief, massieve wanden     22.2 binnerwander; constructief, massieve wanden     22.2 binnerwander; constructief, massieve wanden			Classification
ID AND CATEGORES      ID AND CATEGORES      ID Wand-x      Structural Function      Load-Bearing Element      Cancel			22.0 binnenwanden; algemeen
ID AND CATEGORES      ID AND CATEGORES      ID Wand-x      Structural Fundion      Load-Bearing Element      Cancel			22.1 binnerwanden; niet constructier
ID AND CATEGORIES     ID     Wand-#     Structural Function     Vand-#     Structural Function     Load-Bearing Element     P     D 21 Butermunden     to ad-Bearing Element     Cancel     OE     22.15 binnermunden; niet constructief, systeemwanden; vast     22.14 binnermunden; niet constructief, systeemwanden; verplaa     22.21 binnermunden; constructief     22.20 binnermunden; constructief     22.21 binnermunden; constructief, massieve wanden			22.10 binnerwanden; niet constructier, algemeen iverzamennie
ID AND CATEGORIES     ID Wand-x     Structural Function     Vand-x     Vand-x     Structural Function     Vand-x     Structural Function     Vand-x			22.12 binosmulades pid contractor, sources
Image: Structural Function     Load-Bearing Element     22.14 binnerwander; niet constructief, systeemwander; verplaa.       Image: Structural Function     Load-Bearing Element     22.14 binnerwander; niet constructief, systeemwander; verplaa.       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function     Image: Structural Function       Image: Structural Function     Image: Structural Function <td< td=""><td><ul> <li>ID AND CATEGORIES</li> </ul></td><td></td><td>22.13 bioprovantes net contructiet externue for and</td></td<>	<ul> <li>ID AND CATEGORIES</li> </ul>		22.13 bioprovantes net contructiet externue for and
Cancel      Concel      Cancel      C	Structural Function Load-	earing Element	22.14 binnermanders niet construction systemuscular vest
Cancel			22.2 bionenwanden constructief
22.21 binnerwander, constructief, massieve wanden	1 D 21 Buitenwanden	<ul> <li>Cantel OK</li> </ul>	22.20 binnerwanders constructiet algemeen herramelnivesuit
			22.21 binnenwanden, constructief, massieve wanden
The second		D 1100 + E VS . Visualization - III Entre Marc	

## SKETCHUP

In Sketchup you use the ifc manager to build the model neatly according to the Ifc schema. You can find out how to do that in <u>this guide</u>.

Wa	at in i	fc?	Ное	in native soft	ware: Sketchup						1	Sketch	Up
3.4	3.4 CORECT GERRUIK ENTITETEM Geliquik woor het object de meest geliquede Entity on vul waar mooelijk aan met een TypeEnumeration.			Aanmaken van ni 1. Modelleer en s 2. Klik rechtermui component en element. 3. Er komt een es eigenschappen kunnen worder lijst. 4. In de outliner i	euw component electeer het component is op het geselecteerde klik op Create Building dra venster waarin de van het element ingevu n. Maak een keuze uit de s het component toegev	ld IFC oegd.	6	Angela Bar Bar Bar Bar Bar Bar Bar Bar Bar Ba	3	Edit IIC property Conground (1) into IIC 203: No 69 2005, table 1: Name States States States States States	es foto: notor dose dose dose dose dose dose dose dose	× □ -	
			V 1	Sewerken van be 1. Selecteer het c 2. Selecteer in de Properties' 3. Kies de juiste e	staand component omponent werkbalk 'Show IFC entiteit in de IFC properti	es.	•						
BIM	BASI	SILS	3. WAT	WE AFSPREKEN	over eenduidig uitwiss	elen							1-10-2020
2401	ė	<xs:element name<="" td=""><td>ie=" (32</td><td>.21) binner</td><td>wandopeningen;</td><td>gevuld</td><td>met ramen,</td><td>gesloten ramer</td><td>n"&gt;</td><td></td><td></td><td></td><td></td></xs:element>	ie=" (32	.21) binner	wandopeningen;	gevuld	met ramen,	gesloten ramer	n">				
2402	皇	<xs:attribute< td=""><td>name=</td><td>"Class-code</td><td>notatie"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"Class-code	notatie">								
2403	R	<xs:simpler< td=""><td>ype&gt;</td><td>base="xs:s</td><td>tring"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simpler<>	ype>	base="xs:s	tring">								
2405	T	<xs:enu< td=""><td>merati</td><td>on value="3</td><td>2.21"/&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:enu<>	merati	on value="3	2.21"/>								
2406	-	<td>rictio</td> <td>n&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	rictio	n>									
2407	L	<td>erype&gt;</td> <td></td>	erype>										
2409	白	<xs:attribute< td=""><td>name=</td><td>"tekst_NL-S</td><td>fB"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"tekst_NL-S	fB">								
2410	皇	<xs:simplet< td=""><td>'ype&gt;</td><td>here and</td><td>had a set</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplet<>	'ype>	here and	had a set								
2411	R	<pre><xs:restr <xs:element name<="" pre=""></xs:element></xs:restr </pre>	1Ct10r ne="(32	22) binner	wandopeningen:	gevuld	met ramen.	ramen draaiend	l aan éé:	h kant">	>		
2413	日	<xs:attribute< td=""><td>name=</td><td>"Class-code</td><td>notatie"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"Class-code	notatie">								
2414	皇	<xs:simplet< td=""><td>ype&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplet<>	ype>										
2415	F	<xs:restr <xs:enu< td=""><td>merati</td><td>on value="3</td><td>12.22"/&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:enu<></xs:restr 	merati	on value="3	12.22"/>								
2417	-	<td>rictio</td> <td>n&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	rictio	n>									
2418	-	<td>Type&gt;</td> <td></td>	Type>										
2419	F	<xs:attribute< td=""><td>name=</td><td>"tekst NL-S</td><td>fB"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"tekst NL-S	fB">								
2421	百	<xs:simplety< td=""><td>'ype&gt;</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplety<>	'ype>	_									
2422	뉨	<xs:restr< td=""><td>iction</td><td>23) binner</td><td>string"&gt;</td><td>dennild</td><td>met ramen</td><td>schuiframan"&gt;</td><td></td><td></td><td></td><td></td><td></td></xs:restr<>	iction	23) binner	string">	dennild	met ramen	schuiframan">					
2424	日	<xs:attribute< td=""><td>name=</td><td>"Class-code</td><td>notatie"&gt;</td><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"Class-code	notatie">	9							
2425	皇	<xs:simplet< td=""><td>'ype&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplet<>	'ype>										
2420	F	<xs:restr <xs:enu< td=""><td>merati</td><td>on value="3</td><td>12.23"/&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:enu<></xs:restr 	merati	on value="3	12.23"/>								
2428	-	<td>rictio</td> <td>n&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	rictio	n>									
2429	-	<td>Type&gt;</td> <td></td>	Type>										
2430	A	<xs:attribute< td=""><td>name=</td><td>"tekst NL-S</td><td>fB"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:attribute<>	name=	"tekst NL-S	fB">								
2432	百	<xs:simplety< td=""><td>'ype&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplety<>	'ype>										
2433	B	<xs:restr< td=""><td>iction</td><td>base="xs:s</td><td>tring"&gt;</td><td>dentral d</td><td>mat raman</td><td>raman drasien</td><td>I on ver</td><td>ticale -</td><td>of horis</td><td>tontale at</td><td></td></xs:restr<>	iction	base="xs:s	tring">	dentral d	mat raman	raman drasien	I on ver	ticale -	of horis	tontale at	
2435	F	<xs:attribute< td=""><td>name=</td><td>"Class-code</td><td>notatie"&gt;</td><td>devarg</td><td>met ramen,</td><td>Lamen draalen</td><td>op ver</td><td>CICALE C</td><td>I HOFI</td><td>contare at</td><td></td></xs:attribute<>	name=	"Class-code	notatie">	devarg	met ramen,	Lamen draalen	op ver	CICALE C	I HOFI	contare at	
2436	自	<xs:simplety< td=""><td>'ype&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplety<>	'ype>										
2437	F	<xs:restr< td=""><td>merati</td><td>on value="3</td><td>tring"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:restr<>	merati	on value="3	tring">								
2439	-	<td>rictio</td> <td>n&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	rictio	n>									
2440	-	<td>Type&gt;</td> <td></td>	Type>										
2441	L	<td>name-</td> <td>"tekst NT-S</td> <td>fB"&gt;</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	name-	"tekst NT-S	fB">								
2443	E	<xs:simplety< td=""><td>'ype&gt;</td><td>Jeas 6_111-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:simplety<>	'ype>	Jeas 6_111-2									
2444	E.	<xs:restr< td=""><td>iction</td><td>base="xs:s</td><td>tring"&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></xs:restr<>	iction	base="xs:s	tring">								

In the dialog box where you can choose the right entity there is a second pull-down for the NL-SfB. In the current version (3.4.7) that is the 2005 version.

I have changed the list, a .xml file of which you see a part on the right, to the correct version.

Just changing that wasn't enough. The extension reads multiple files in different locations. With the help of <u>Nick Nijmeijer</u>, we succeeded and now it works. Of course I shared my work with <u>Jan Brouwer</u>. He is the creator of the extension. You can wait for an update from the ifc manager but you don't have to.

Here you can find the list: <u>https://github.com/MennoMekes/NL-SfB-tabel-1-</u> <u>Classification/tree/SketchUP</u>. Click the arrow next to Code on the green button and then Download ZIP.

¥	SketchUP - 9 4 branches	0 tags	Go to	file	Add file 🕶	Code 1		
This	s branch is 2 commits ahead of main.	E Clone ()						
•	MennoMekes Create README.md		https://github.com/MennoMekes/NL-SfB-tabe:					
۵	lfcProduct_su.rb	Add files via upload	512 o					
ß	NL-SfB tabel 1 Classification.skc	Add files via upload	Gen with GitHu	ib Desk	ctop			
۵	NL-SfB tabel 1 Classification.yml	Add files via upload	🖁 Download ZIP	2		վիդ		
D	README.md	Create README.md				now		
ß	settings.yml	Add files via upload			7 mi	nutes ago		

These files belong in three different places in the extension folders:



Go to: C:\Users\ ...... \AppData\Roaming\SketchUp\SketchUp 2021\SketchUp\Plugins\bt\_ifcmanager. In this folder is the file 'settings.yml'. Replace it with the new one. In the \lib\lib\_ifc folder, replace the "IfcProduct\_su.rb" file. In the folder 'classifications' you put the other 2 files.

## Finally

You've made it this far! Then you are definitely interested in unambiguous models. You can use and distribute the files freely. I'd love to.