



NETT·ERK

Unikt 3D-bibliotek for VA-bransjen

Mats Fensholt og Knut Jøssang



AGENDA

- 3D Warehouse opplasting
 - Last opp
 - Effektiv forvaltning med CSV
 - Parametrisk 3D
- Visuell modellering
 - Grashopper
 - 3D Warehouse
- Property Set



INTRODUCTION

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≡ VAREHUS ERFARINGER

- Enkel forvaltning av 3D objekter
- Mulighet til å bygge opp kataloger
- “One stop shop” for infrastruktur objekter
- Egendefinerte kataloger
- Gratis





VAREHUSERFARINGER

3D Warehouse

Upload Model



Search

Search

Sign In



Pipelife

by Pipelife Norge



Add to Collection



Models	0
Collections	2
Likes	7
Created	6/8/17
Last Modified	10/31/18



Pipelife Norge er Norges største produsent og leverandør av rørsystem i plast. Bedriften er en del av Pipelife-konsernet som er blant Europas ledende produsenter av plastrør og tilhørende deler. Våre rør benyttes til vann, avløp, kabelbeskyttelse og elektriske husinstallasjoner. En betydelig andel av produksjonen går til eksport. Dette gjelder særlig rør av polyetylen (PE) i store dimensjoner, der Pipelife Norge har utviklet et unikt konsept med hele den vestlige halvkule som marked. Det innovative avløpsrørsystemet Smartline er også på tur til å bli en stor eksportvare. Pipelife Norge er en innovativ bedrift med egen forsknings- og utviklingsavdeling i Surnadal. Vi investerer kontinuerlig i nye produkter og produksjonsmidler for å sikre en bærekraftig og miljøvennlig produksjon i Norge. Helse, miljø og sikkerhet og kvalitet er alltid førsteprioritet. Pipelife Norge har i dag to fabrikker: I Surnadal produseres rør og deler i polyvinylklorid (PVC), polypropylen (PP) og polyetylen (PE) til vann og avløp, drenering, VVS, kabelbeskyttelse og el-installasjon. Fabrikken har ca. 100 ansatte. Her ligger selskapets hovedkontor. På Stathelle produseres rør i polyetylen (PE), og det er her Pipelife produserer store rør i lange lengder. Fabrikken har ca. 50 ansatte. I tillegg har selskapet kontorer i Oslo, Bergen og Trondheim.

For more information, visit:

<http://www.pipelife.no/no/>

Collections

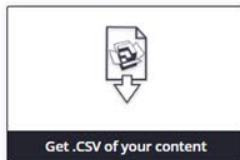
Sort by Date Added (New to Old)



3D WAREHOUSE OPPLASTING

Manage Content

Start by downloading one of these .CSV files.



Now fill in your .CSV file with the actions you wish to perform ([Here's how](#)). Then drag and drop your .CSV back onto this page, along with any SketchUp or image files you may have.

Drag & Drop your files here or

Browse for files.

skp kmz jpg png csv

Maximum upload size is 50 MB. Maximum image size is 3 MB.

3D WAREHOUSE OPPLASTING



Pipeline Norge 3D Warehouse Content 2018-12-19 11-21-49.304

File Edit View Insert Format Data Tools Add-ons Help Last edit was on December 19, 2018



Share

100% \$ % .0 .00 123 Arial 10 B I U A

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	F
1	Action	Type	Title	SketchUp Filena	Thumbnail Filens	Description	Containing Colle	Is Private	Is Printable	Allow Comments	Information URL	ID	Date Modified	Time Modified	URL	
2	none	Collection	110 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	b15bf24e-5c57-4	10/03/2018	12:50:56	https://3dwarehouse.sketchup.com	
3	none	Collection	110 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	153a3f98-7e17-4	10/03/2018	12:50:57	https://3dwarehouse.sketchup.com	
4	none	Collection	15° segmentsveiste PE bend - Pipelife				"PE segmentsve No	No	No	Yes	http://www.pipelife.com	b9568599-5d5e-	10/04/2018	8:59:07	https://3dwarehouse.sketchup.com	
5	none	Collection	160 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	9c7f5fac-c30a-4	10/03/2018	12:51:00	https://3dwarehouse.sketchup.com	
6	none	Collection	160 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	79e5f1dc-e00e-4	10/03/2018	12:51:01	https://3dwarehouse.sketchup.com	
7	none	Collection	200 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	405bb853-0385-	10/03/2018	12:51:03	https://3dwarehouse.sketchup.com	
8	none	Collection	200 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	ea023664-e40e-	10/03/2018	12:51:04	https://3dwarehouse.sketchup.com	
9	none	Collection	250 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	ce586f87-dfde-4l	10/03/2018	12:51:05	https://3dwarehouse.sketchup.com	
10	none	Collection	250 Mabokum - gren høyre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	e2bca26b-a1a0-	10/03/2018	12:51:07	https://3dwarehouse.sketchup.com	
11	none	Collection	250 Mabokum - gren venstre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	b87bb144-ae6c-	10/03/2018	12:51:08	https://3dwarehouse.sketchup.com	
12	none	Collection	250 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	09ea4f12-bb94-4	10/03/2018	12:51:09	https://3dwarehouse.sketchup.com	
13	none	Collection	250 Pragmakum - gren høyre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	2338080a-71a0-	10/03/2018	12:51:11	https://3dwarehouse.sketchup.com	
14	none	Collection	250 Pragmakum - gren venstre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	8800b3cb-3c7f-4	10/03/2018	12:51:12	https://3dwarehouse.sketchup.com	
15	none	Collection	30° segmentsveiste PE bend - Pipelife				"PE segmentsve No	No	No	Yes	http://www.pipelife.com	581ec8ca-6cbd-4	10/04/2018	8:59:12	https://3dwarehouse.sketchup.com	
16	none	Collection	315 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	c43460c4-4f6d-4	10/03/2018	12:51:15	https://3dwarehouse.sketchup.com	
17	none	Collection	315 Mabokum - gren høyre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	a9a615a9-e4f1-4	10/03/2018	12:51:16	https://3dwarehouse.sketchup.com	
18	none	Collection	315 Mabokum - gren venstre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	6fc15343-8484-4	10/03/2018	12:51:17	https://3dwarehouse.sketchup.com	
19	none	Collection	315 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	42d51e67-33cc-	10/03/2018	12:51:19	https://3dwarehouse.sketchup.com	
20	none	Collection	315 Pragmakum - gren høyre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	6323d7da-afa0-4	10/03/2018	12:51:20	https://3dwarehouse.sketchup.com	
21	none	Collection	315 Pragmakum - gren venstre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	8fcb8cda-97f4-4e	10/03/2018	12:51:21	https://3dwarehouse.sketchup.com	
22	none	Collection	400 Mabo stigerør - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	daf4052b-0643-4	10/03/2018	12:51:23	https://3dwarehouse.sketchup.com	
23	none	Collection	400 Mabokum - 2 gren - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	e3a07504-34d5-	10/03/2018	12:51:24	https://3dwarehouse.sketchup.com	
24	none	Collection	400 Mabokum - gren høyre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	fdeb8c38-6927-4	10/03/2018	12:51:26	https://3dwarehouse.sketchup.com	
25	none	Collection	400 Mabokum - gren venstre - Pipelife				"Mabo kummer - No	No	No	Yes	http://www.pipelife.com	c3109b45-9a09-	10/03/2018	12:51:27	https://3dwarehouse.sketchup.com	
26	none	Collection	400 mm sandfang - Pipelife				"Kumssystemer - No	No	No	Yes	http://www.pipelife.com	b1c4b45c-5a38-	10/03/2018	14:28:48	https://3dwarehouse.sketchup.com	
27	none	Collection	400 Pragma stigerør - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	3878ee31-8925-	10/03/2018	12:51:30	https://3dwarehouse.sketchup.com	
28	none	Collection	400 Pragmakum - 2 gren - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	d4b4c598-77c5-	10/03/2018	12:51:32	https://3dwarehouse.sketchup.com	
29	none	Collection	400 Pragmakum - gren høyre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	df0a6047-e14d-4	10/03/2018	12:51:34	https://3dwarehouse.sketchup.com	
30	none	Collection	400 Pragmakum - gren venstre - Pipelife				"Pragma kumme No	No	No	Yes	http://www.pipelife.com	20a0d9f5-34ef-4	10/03/2018	12:51:35	https://3dwarehouse.sketchup.com	
31	none	Collection	45° grenrør SDR 11 for el-muffe - Pipelife				"PE deler for elel No	No	No	Yes	http://www.pipelife.com	2db40111-30b9-	10/04/2018	12:41:35	https://3dwarehouse.sketchup.com	
32	none	Collection	45° segmentsveiste PE bend - Pipelife				"PE segmentsve No	No	No	Yes	http://www.pipelife.com	cace0b65-5e1a-	10/04/2018	8:59:17	https://3dwarehouse.sketchup.com	
33	none	Collection	45° segmentsveiste PE grenrør - Pipelife				"PE segmentsve No	No	No	Yes	http://www.pipelife.com	456837a8-4593-	10/04/2018	8:59:23	https://3dwarehouse.sketchup.com	

3D WAREHOUSE OPPLASTING



Help With ▾

Find an answer to your SketchUp question



[Home](#) / [3D Warehouse](#) / [Sharing a Product Catalog](#) / Uploading Catalog Content

Uploading Catalog Content

With a subscription to the 3D Warehouse catalog features, you can upload a whole catalog of product details with a single .csv file and manage those details efficiently. Whether you're uploading or modifying 5 models or 500 models, you can create, update, delete, and organize your models and collections quickly and easily.

Tip: If you don't already subscribe to the 3D Warehouse catalog features but are interested in adding these features to a 3D Warehouse collection, contact the [Sales team](#) for the 3D Warehouse and manufacturers.

Before you start adding product details to the .csv file, you'll find it helpful to understand the following concepts about adding and organizing catalog content:

- **Organize your catalog by collection.** In the following figure, you see how the Teknion catalog has a collection for each line of furniture. This helps users browse for related products.
- **Add collection details.** You can add a thumbnail image and description to brand your catalog pages. Add a URL so that users can easily click through to the most relevant pages on your website.
- **Add a product description for each model.** The model page is where users can download a model of your product. Take care to use simple, descriptive text that helps designers find your models.



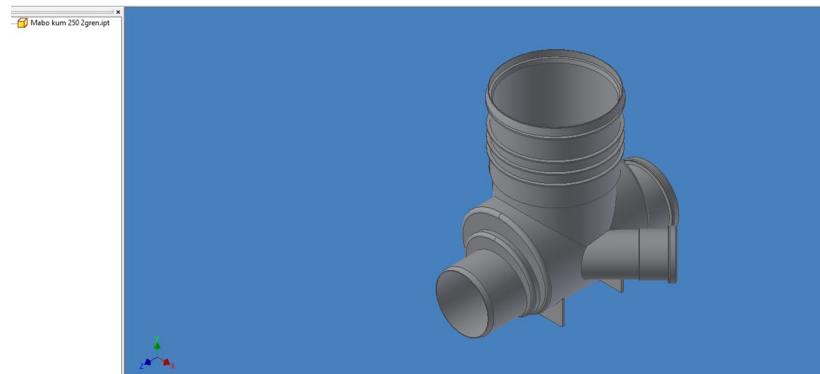


STEP PRODUKTER

- Excel

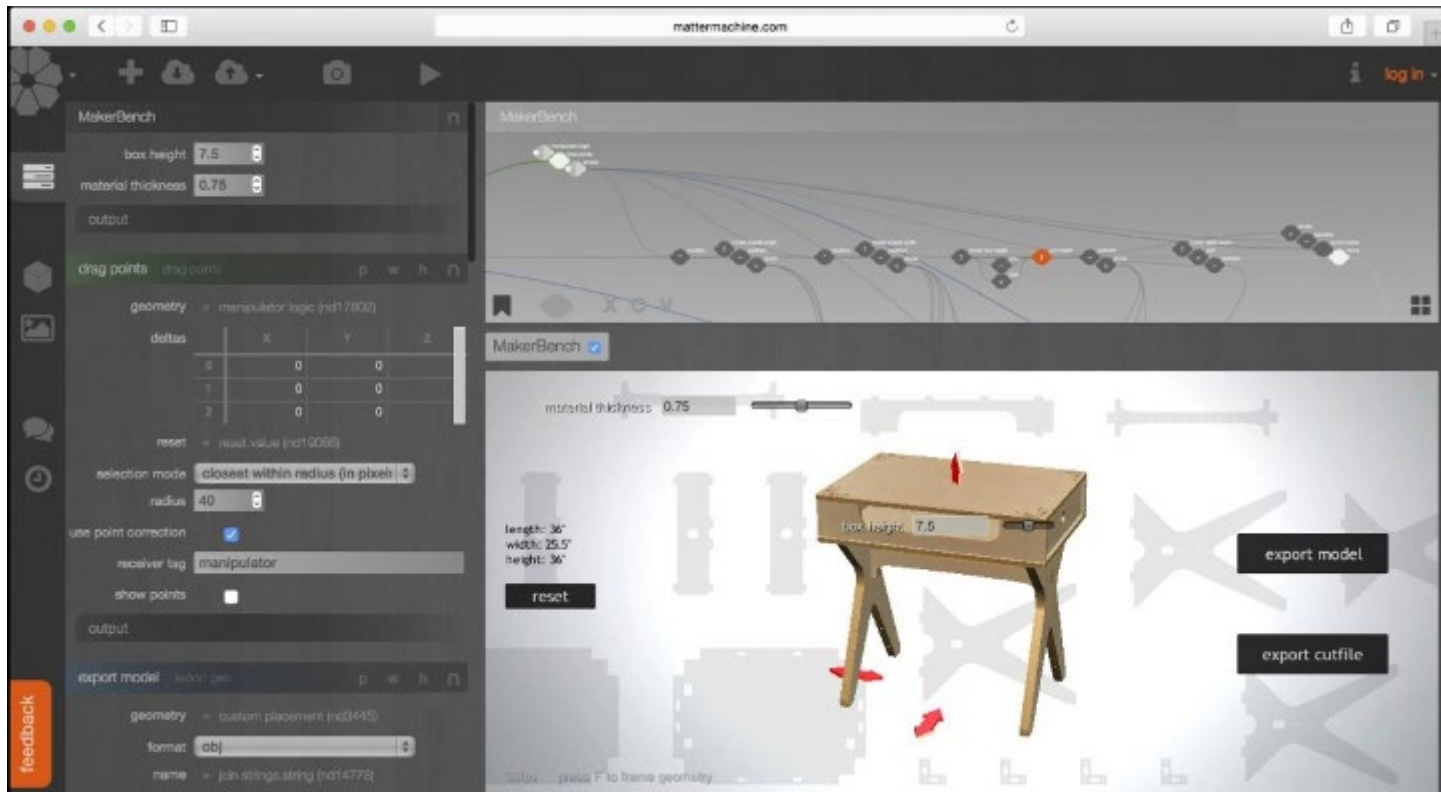
h_OD_rør	160	v_OD_rør	160	m_OD_rør	250
h_plassing_rør		v_plassing_rør		m_Lpakning	
h_Lpakning		v_Lpakning		m_ID_pakning	
h_ID_pakning		v_ID_pakning		m_ID_muffe	
h_ID_muffe		v_ID_muffe		m_Lmuffe	
h_t_muffe		v_t_muffe		m_Lmuffe	
h_Lmuffe		v_Lmuffe		m_OD_klikk	
h_OD_klikk		v_OD_klikk		m_Lklikk	
h_Lklikk		v_Lklikk		m_t_nese	
h_t_nese		v_t_nese		m_Lribbe	
h_Lribbe		v_Lribbe		m_t_ribbe	
h_t_ribbe		v_t_ribbe		m_t_rør	
h_t_rør		v_t_rør		m_avst_senter	
h_B_merket		v_B_merket		m_A	
h_or_1		v_or_1		m_or_1	
h_or_2		v_or_2		m_or_2	
h_or_3		v_or_3		m_or_3	
h_or_4		v_or_4		m_or_4	
h_or_5		v_or_5		m_or_5	
h_or_6		v_or_6		m_or_6	
h_or_7		v_or_7		m_or_7	
h_or_8		v_or_8		m_or_8	
h_or_9		v_or_9		m_or_9	
h_or_10		v_or_10		m_or_10	
h_or_11		v_or_11		m_or_11	
h_or_12		v_or_12		m_or_12	
h_or_13		v_or_13		m_or_13	

- Autodesk Inventor





VISUEL MODELLERING





WAREHOUSE V2

shade radius (avg)
4.5

shade height
7

shade rotation
18

shade position
14.5

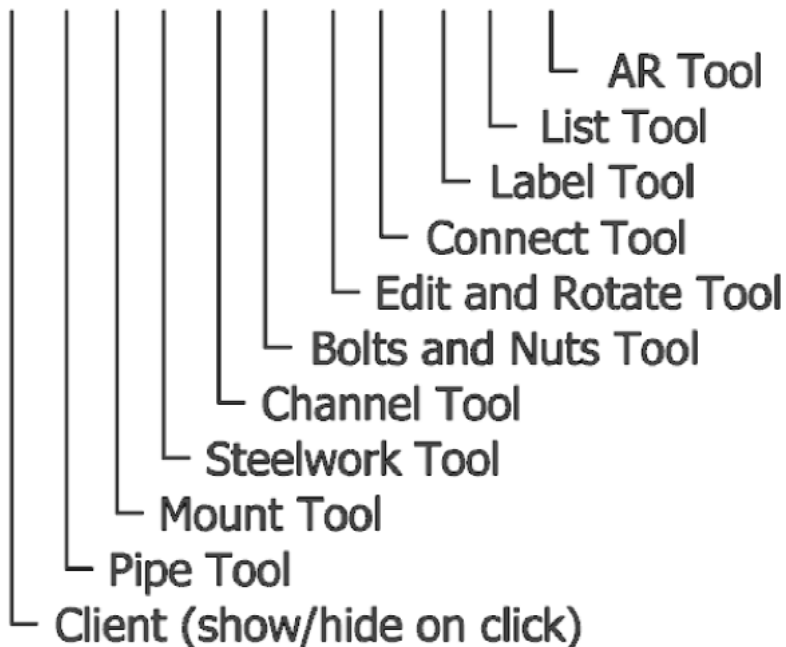
Shade Finish
Saffron

Base Finish
Chrome

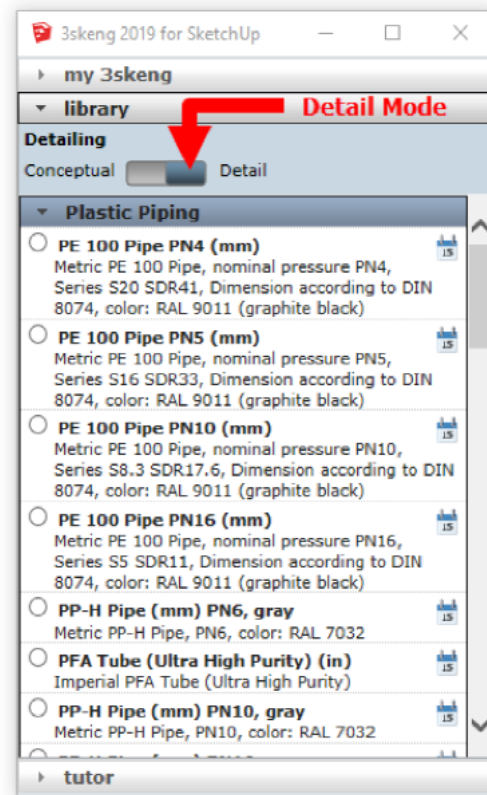
Download

EXAMPLE - Sanna - parametric

3skeng Toolbar

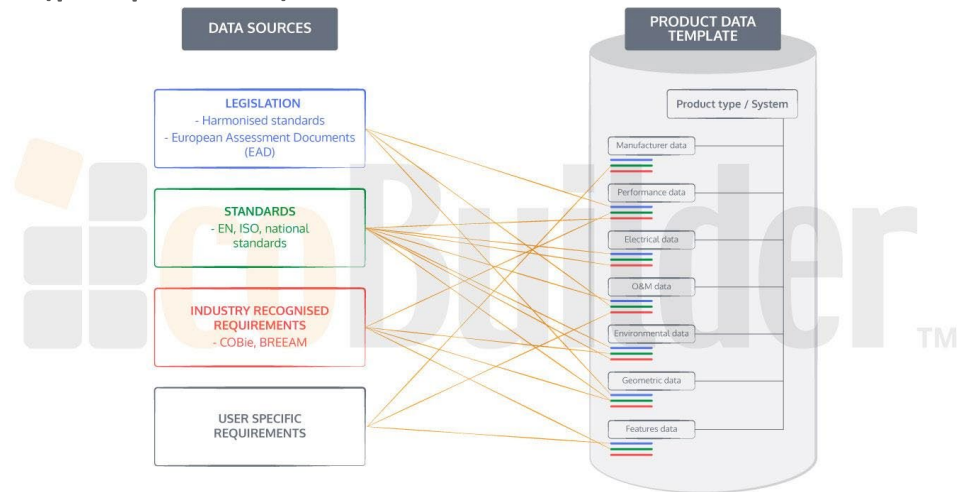


3skeng Client



STRUKTURERT PRODUKTINFORMASJON

- PDT (Product data template)
 - Felles datastruktur som definerer egenskaper (properties) for en produkttype
- PDS (Product data sheet)
 - PDT med utfyllt med egenskaper (properties)
- property set
 - Utdrag av egenskaper fra PDT





OM COBUILDER GOBIM

cobuilder
goBIM

PRODUCTS

DOCUMENTS

SUPPORT

ENGLISH

KNUT JOSSANG

Create

Share

Manage list

200-6M PVC SN8 AVLØPSRØR RB

Edit Expire Export

Product Type	PVC-U pipe for non-pressure drainage and sewerage
Product standard	EN 13476-1 - plastics piping systems for non-pressure underground ... see more ... EN 1401-1 Plastics piping systems for non-pressure underground ... see more ...
Product Type Definition	solid or structured-wall pipe segment made from unplasticized ... see more ...
Country	Norway
GTIN	7033730101252
Product code	010125
NRF-number	3077568
Manufacturer	Pipelife Norge AS



Properties

Classifications

Documents

BIM Files

Components

All Properties

Geometric Data

Performance Data

Filter by Uses

By default all properties are visible.
To limit the properties list to your desires you can limit properties by uses below.

View All Properties



EKSPORT TIL EXCEL

	A	B	C
1		PIPELIFE NORGE AS - 200-6M PVC SN8 AVLØPSRØR RB	
2			
3			
4	GENERAL PRODUCT INFORMATION		
5	Product Type	PVC-U pipe for non-pressure drainage and sewerage	
6	Product standard	EN 13476-1 - plastics piping systems for non-pressure underground drainage and sewerage - structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - part 1: general requirements and performance characteristics	
7	Product Type Definition	EN 1401-1 Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized solid or structured-wall pipe segment made from unplasticized poly(vinyl chloride) (PVC-U) intended for non-pr	
8	Country	Norway	
9	Product code	010125	
10	Status	Active	
11	Manufacturer	PipeLife Norge AS	
12	CLASSIFICATIONS		
13	System	Code	Description
14	lfc 2x4	lfcPipeSegment	pipe segment
15	NFRM 3	5.3	disposal installations
16	NFRM 3	8.6	external drainage
17	NS 3451	311	bunndledninger for sanitærinstallasjoner
18	NS 3451	731	utvendørs va
19	SFG20	40-01	pipework systems - general
20	TFM komponentkoder	Kr	rør - generelt
21	Uniclass 1.4	L21721	Pipes for sewers and drains
22	Uniclass 1.4	L73121	Pipes and fittings
23	Uniclass 2015_Products Table	Pr_65_52_63_87	unplasticized polyvinylchloride (pvc-u) drainage pipe and fittings
24	Uniclass 2015_Products Table	Pr_65_52_63_89	unplasticized polyvinylchloride (pvc-u) pipelines
25	GEOMETRIC DATA		
26	Property	Value	Unit
27	length of socket entrance and sealing area (length)	145	millimetre
28	outer diameter (length)	200	millimetre
29	package height	234	millimetre
30	package length	234	millimetre
31	package width	6145	millimetre
32	package width	234	millimetre
33	volume (volume)	56.07927	cubic decimetre
34	wall thickness (length)	5.3	millimetre
35	PERFORMANCE DATA		
36	Property	Value	Unit
37	assembly (nominal)	Rørene monteres mot rørmuffe eller mot å	unitless
38	density (density)	14	kilogram per cubic decimetre
39	storage	Rørene skal lagres på et godt avrettet unde	unitless
40	FEATURES DATA		
41	Property	Value	Unit
42	application	Rør og rørdeler til bruk i avløpsrørssystemer	unitless
43	colour (nominal)	Rødbrune rørdeler/Rødbrune rør for spillvar	unitless
44	features	m/muffe og sewerlock	unitless
45	fitting type	Rørdeler etter NS-EN 1852, NS-EN 1401 eller	unitless
46	material (nominal)	Polyvinylklorid uten tilsatt myknere (PVC-U)	unitless
47	package unit	STK	unitless



PROPERTY SET

- Quadri community
 - Webapplikasjon
 - Lager property set
 - Kobler til Objektkatalogen

- CoBuilder
 - Informasjonsbibliotek
 - Produkt data mal



NETTWERK