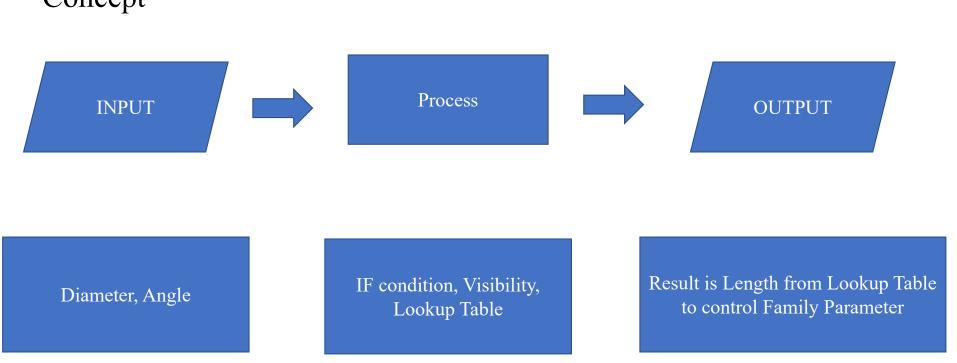
## HDPE Pipe Fittings Family

• Concept



### **INPUT**



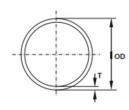






#### ท่อพอลิเอทิลีน ชนิดความหนาแน่นสูง สำหรับใช้เป็นท่อน้ำดื่มมาตรฐาน มอก. 982-2556

STANDARD FOR HIGH-DENSITY POLYETHYLENE PIPE FOR DRINKING WATER

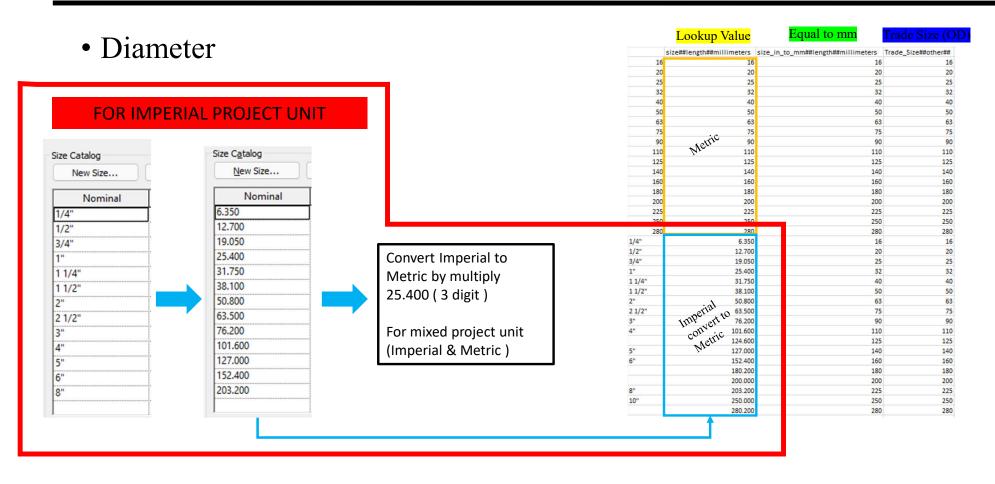


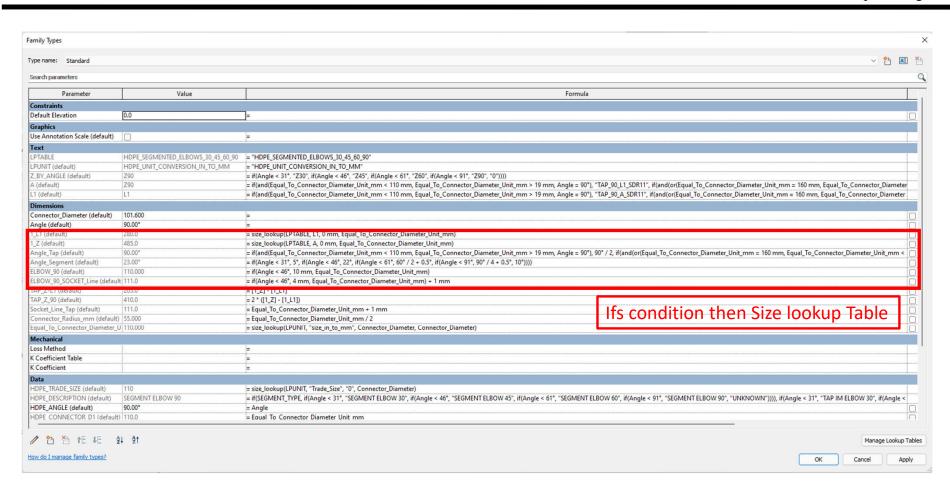


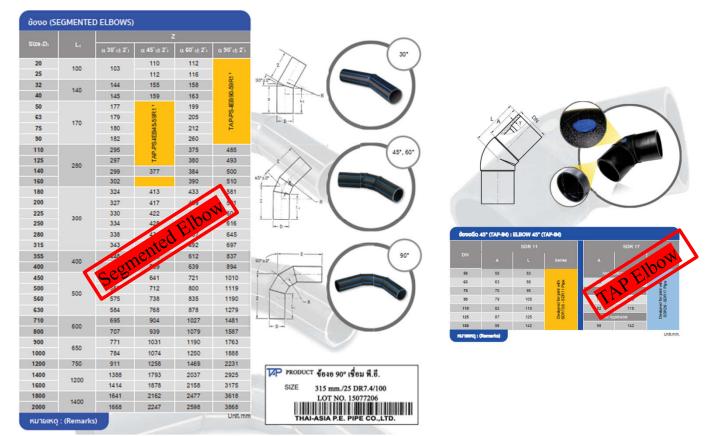
ขนาด OD	PN 25 SDR 6		PN 20 SDR 7.4		PN 16 SDR 9		PN 12.5 SDR 11		PN 10 SDR 13.6		PN 8 SDR 17		PN 6 SDR 21		PN 5 SDR 26	
	16	3.0	0.12	2.3	0.10	2.0	0.09	-	-	-	(e	1-	100	-	-	-
20	3.4	0.18	3.0	0.16	2.3	0.13	2.0	0.12	-	-	- 15		-	-	-	
25	4.2	0.28	3.5	0.24	3.0	0.21	2.3	0.17	2.0	0.15	-		-	-		-
32	5.4	0.46	4.4	0.39	3.6	0.33	3.0	0.28	2.4	0.23	2.0	0.19	-	-	-	
40	6.7	0.71	5.5	0.61	4.5	0.51	3.7	0.43	3.0	0.36	2.4	0.29	2.0	0.25	-	
50	8.3	1.10	6.9	0.94	5.6	0.79	4.6	0.67	3.7	0.55	3.0	0.45	2.4	0.37	2.0	0.31
63	10.5	1.74	8.6	1.48	7.1	1.27	5.8	1.06	4.7	0.88	3.8	0.72	3.0	0.58	2.5	0.49
75	12.5	2.47	10.3	2.11	8.4	1.78	6.8	1.48	5.6	1.24	4.5	1.02	3.6	0.83	2.9	0.67
90	15.0	3.56	12.3	3.03	10.1	2.57	8.2	2.14	6.7	1.78	5.4	1.47	4.3	1.19	3.5	0.98
110	18.3	5.29	15.1	4.54	12.3	3.81	10.0	3.17	8.1	2.64	6.6	2.18	5.3	1.78	4.2	1.44
125	20.8	6.83	17.1	5.84	14.0	4.93	11.4	4.12	9.2	3.40	7.4	2.78	6.0	2.28	4.8	1.88
140	23.3	8.57	19.2	7.34	15.7	6.18	12.7	5.13	10.3	4.26	8.3	3.49	6.7	2.85	5.4	2.33
160	26.6	11.18	21.9	9.55	17.9	8.05	14.6	6.73	11.8	5.56	9.5	4.56	7.7	3.74	6.2	3.06
180	29.9	14.13	24.6	12.07	20.1	10.18	16.4	8.51	13.3	7.05	10.7	5.76	8.6	4.70	6.9	3.81
200	33.2	17.45	27.4	14.93	22.4	12.59	18.2	10.50	14.7	8.65	11.9	7.11	9.6	5.83	7.7	4.73
225	37.4	22.09	30.8	18.87	25.2	15.93	20.5	13.29	16.6	10.98	13.4	9.02	10.8	7.36	8.6	5.94
250	41.5	27.24	34.2	23.30	27.9	19.58	22.7	16.34	18.4	13.53	14.8	11.06	11.9	9.01	9.6	7.36
280	46.5	34.18	38.3	29.21	31.3	24.62	25.4	20.49	20.6	16.95	16.6	13.89	13.4	11.38	10.7	9.18

การแสดงเครื่องหมายและฉลาก : VP "ก่อน้ำตับ" HDPE 🛟 TIS 982-2556 0 280 mm. X 31.3 mm. PN 16 SDR 9 PE 80 =801001=

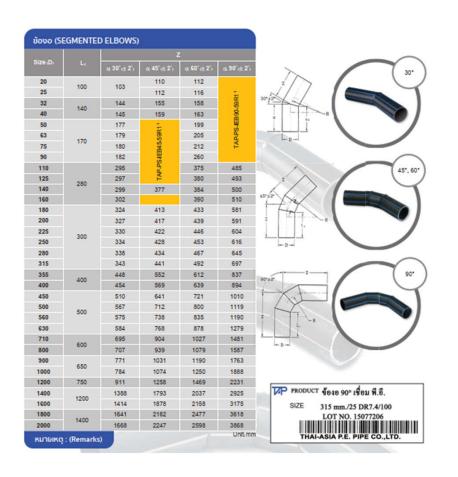
#### **INPUT**









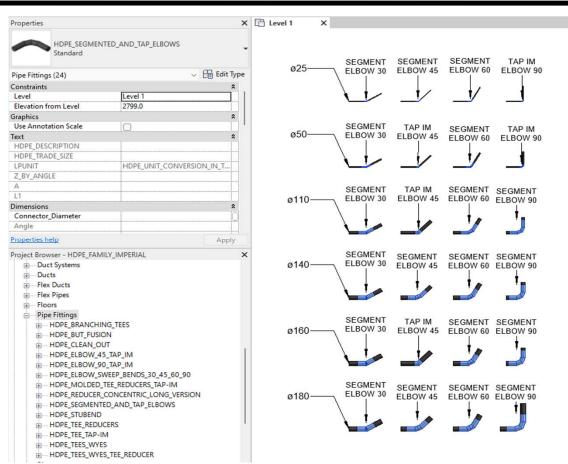


#### TYPE OF HDPE ELBOW FITTING Size mm Angle 30 45 60 90 **SEGMENTED SEGMENTED SEGMENTED** 20 - 40 SEGMENTED SEGMENTED 50 - 90 **SEGMENTED** SEGMENTED SEGMENTED 110 - 125 SEGMENTED **SEGMENTED** SEGMENTED SEGMENTED 140 **SEGMENTED** SEGMENTED SEGMENTED 160 **SEGMENTED SEGMENTED** SEGMENTED SEGMENTED 180 - 280

#### **OUTPUT**

- Trade Size Diameter
- Type of HDPE Elbow

#### TYPE OF HDPE ELBOW FITTING Size Angle mm 30 45 90 60 SEGMENTED SEGMENTED SEGMENTED 20 - 40SEGMENTED SEGMENTED 50 - 90SEGMENTED SEGMENTED SEGMENTED 110 - 125 SEGMENTED SEGMENTED SEGMENTED SEGMENTED 140 SEGMENTED SEGMENTED SEGMENTED 160 SEGMENTED SEGMENTED SEGMENTED SEGMENTED 180 - 280

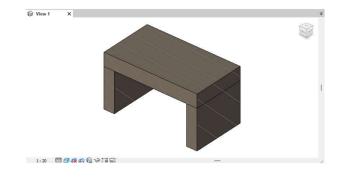


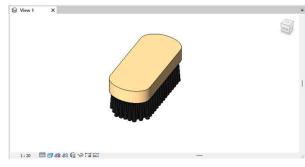
#### 3D Model

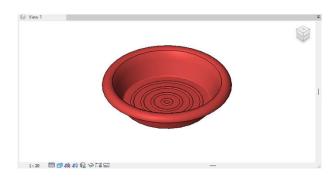
#### Extrusion

## Blend & Array

# Sweep







## Dynamo For Clash Detection

• Concept



Get element by section view that included of Group A and Group B

Find points of Group A
Clash with Group B
By Geometry.Intersect Node

Result of XYZ Points that intersect, then place family or clash point (You can change this family to block out or sleeve)

## Purpose of Clash Detection Dynamo

- Detect or get the coordinate position of clash element
- Self intersection, better for communication when facing large size project or these are many BIM Modeler involved.
- You can assign filters to Clash Family for individual BIM Modeler according to the company's template.

Dynamo Player

Link\_STR

Section 1 - Clash Detection Scope

Choose ur Clash Ball Family:

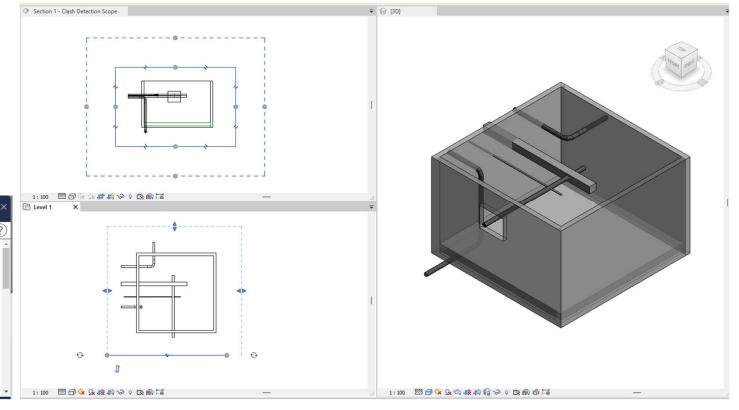
clash\_point.clash\_point

Place Clash Ball ?:

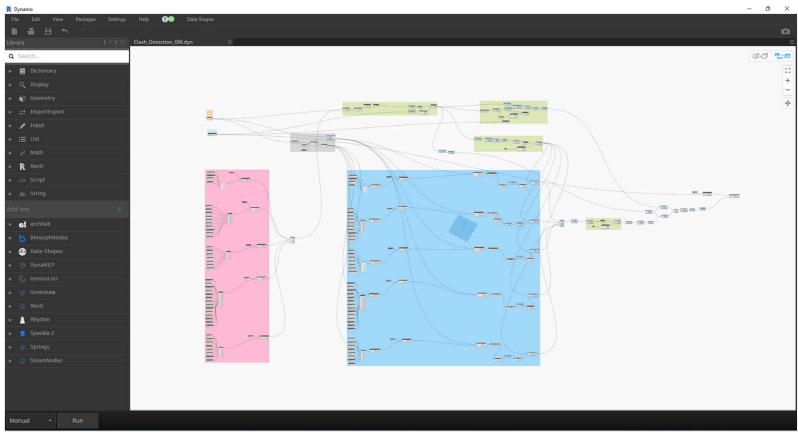
< C

• Section View of Element

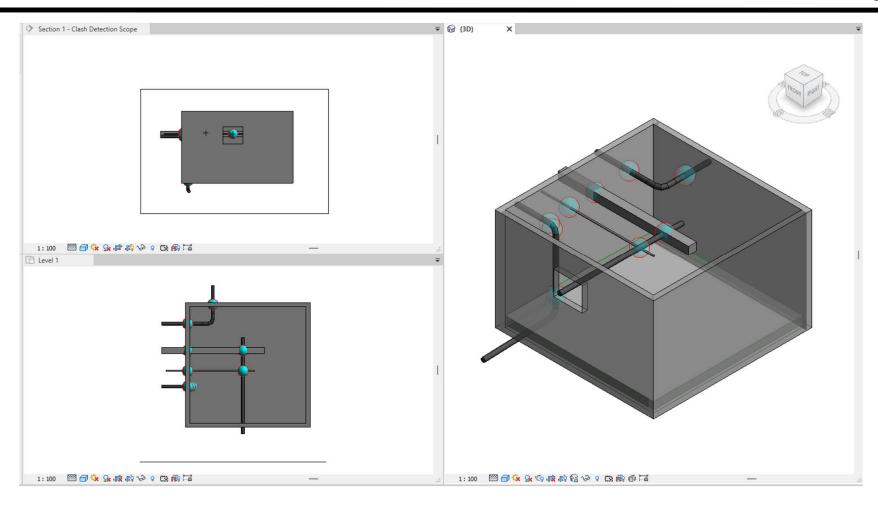
• Clash Point Family



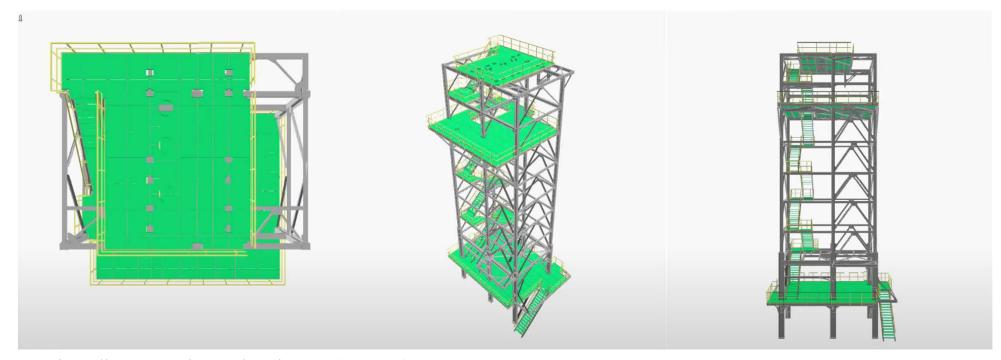
https://drive.google.com/file/d/1ZZ8GtkLSJyjD6O89YOEBFshwf82OYajt



## OUTPUT



### Navisworks 4D Simulation



https://www.youtube.com/watch?v=Ug6uKRU54Tg

https://www.youtube.com/watch?v=6HFOp3TottA