

Modern engineering = NLD

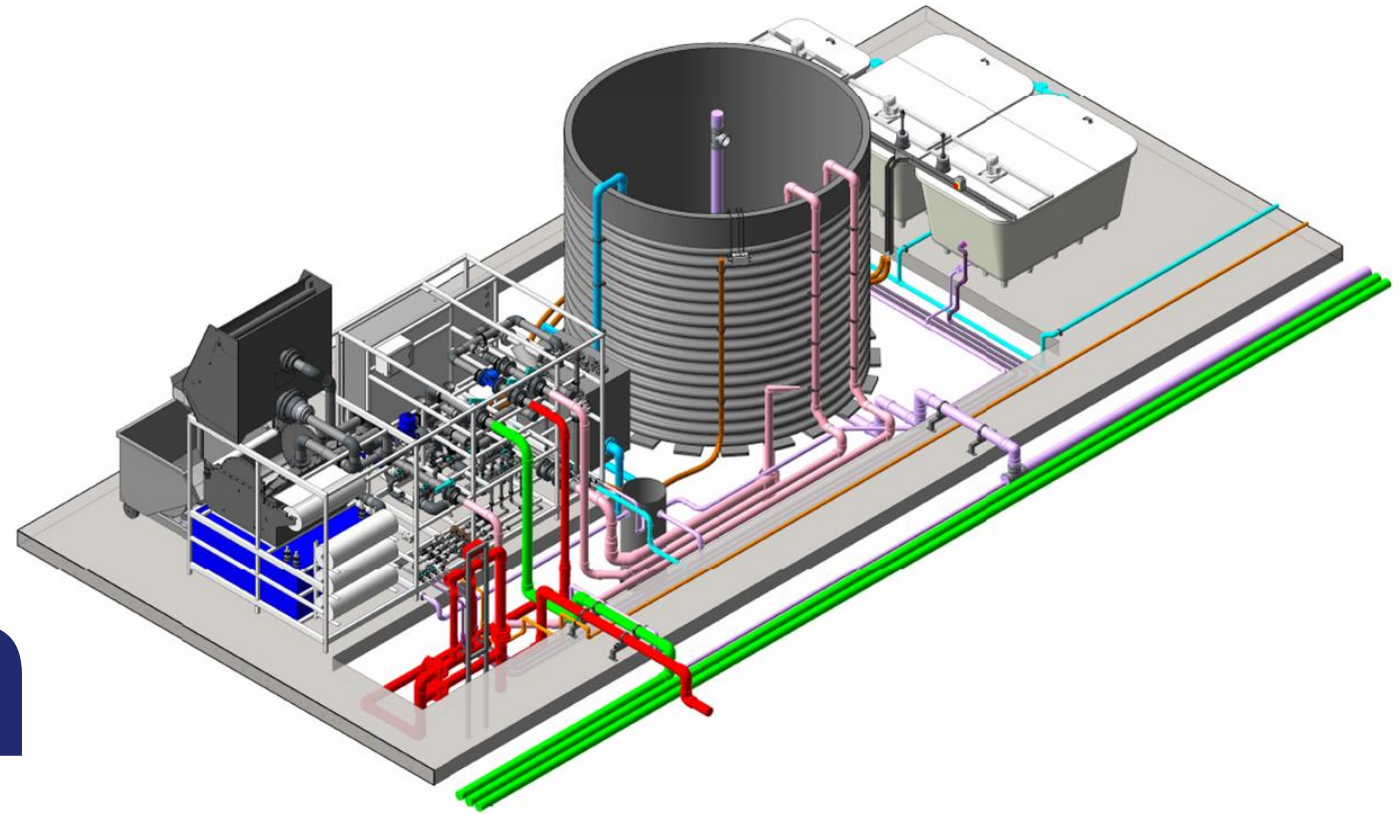


Tebarex



Modern engineering REVIT 3D and INTELEC®

Next
Level
Design



Modern engineering – REVIT 3D



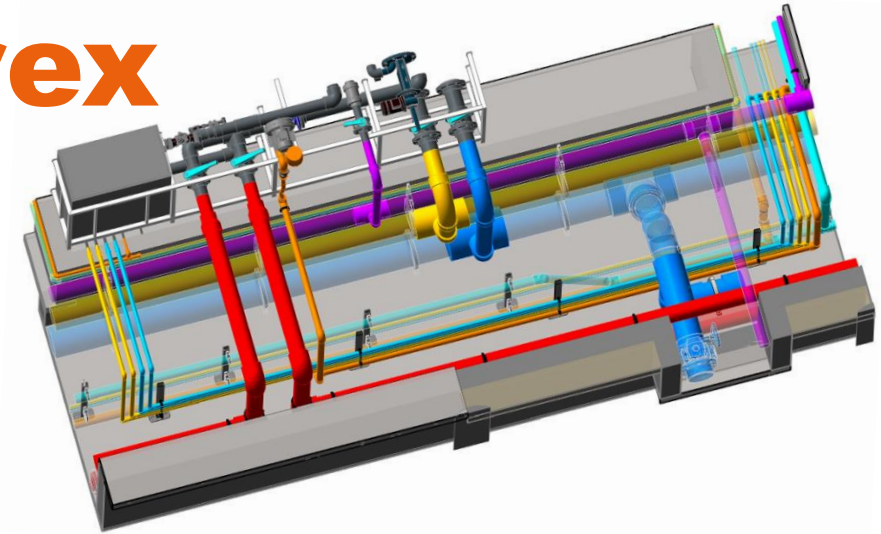
N

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Advantages of Tebarex

next level design:



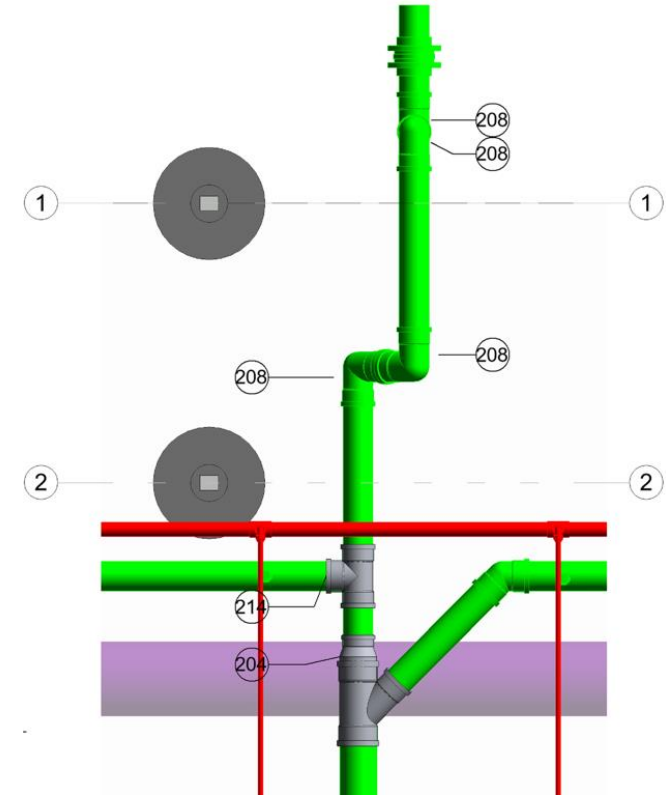
1. Time saving on the job
2. Integration with other disciplines
3. Actual feedback on installing (as build)
4. Online updates of latest versions
5. GPS coordinates of field pictures
6. Clear assembling instructions
7. Modern use of tablet instead of paper
8. Post-it notes on details for feedback
9. Perfect graphics visualization

Modern engineering – REVIT 3D



Using Next Level Design

1. Accurate engineering
2. Calculating optimum flow
3. Saving energy
4. Generate complete materials lists
5. Conflict prevention at engineering
6. Calculating optimum pressure losses
7. Maintenance friendly design



Modern engineering – INTELEC®



Using Next Level Design



1. Cable voltage drop calculations by design tool Intelec
2. Following International Standard IEC-60364
3. Mexican standard NOM 001 is related to the IEC-60364
4. Saving energy calculations
5. Increasing life span of equipment

Calculation module IEC-60364 2015 : LTE+

General Project Manager Miscellaneous Help Stop LTE-dialog CableNet <-

General page Library Protection Installation method Conductors

Main point for calculation IBth=Ir IB IN Cs Motor Power

231.8 gG100 0 Xlpe/Epr+S 4x95 Al 75 47.8 0.946 0.80

Uf [V] Protection sw Cabsol S-> 25 Length kVA cos-phi SMT

standard calculations keyword-> search con->C extra Input

IBnet= 81.0 A iz uv res st->m Cs + - Force IN + - Stop

Cs = Core size [mm2]	4x95	Voltage losses UV	3.84V = 0.94% [75.0m]
Maximal load current IZ [A]	= 129.0	Reserved power P [kVA]	= 13.2
Current IB [A]	= 81.0	Power losses PL [W]	= 324.9
Protection IN [A]	= 100	Short-circuit current IK [A]	= 530.3
Table value 53.H.1 IZ [A]	= 110.0	Short-circuit power PK [kVA]	= cNet
Max. length (short-circ)LK [m]	= 288.5	Temperature Tn [°C]	= 47.6
Max. length (s-c+v.loss)LM [m]	= 235.5	price per meter PR [Euro]	
Max. voltage losses UM [V]	= 12.0	ID2	52.B.5c8/52.B.15+16/52.B.18

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