



# **KVJ süsteemide projekteerimisest Autodesk Revitis**

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# Schedule-d 1

Infragate

<Ruumide soojuskaod>				
A	B	C	D	E
Nr.	Nimi	Pindala	Arvustilik ruumi soojuskadu	Soojuskaudu m2 kohta
101	Tuulekoda	6 m <sup>2</sup>	345 W	57.66 W/m <sup>2</sup>
102	Fuajee/liikumisteed	134 m <sup>2</sup>	3499 W	26.06 W/m <sup>2</sup>
103	Koristaja ruum	4 m <sup>2</sup>	226 W	50.50 W/m <sup>2</sup>
104	WC	2 m <sup>2</sup>	20 W	10.49 W/m <sup>2</sup>
105	WC	2 m <sup>2</sup>	20 W	10.40 W/m <sup>2</sup>
106	inva WC	6 m <sup>2</sup>	63 W	10.55 W/m <sup>2</sup>
107	Tuulekoda	6 m <sup>2</sup>	120 W	21.51 W/m <sup>2</sup>
108	Spordisaal	796 m <sup>2</sup>	22908 W	28.78 W/m <sup>2</sup>
109	Veemöödusõlm	5 m <sup>2</sup>	83 W	17.04 W/m <sup>2</sup>
110	Spordivahendite ru	26 m <sup>2</sup>	608 W	23.62 W/m <sup>2</sup>
111	Spordivahendite ru	6 m <sup>2</sup>	73 W	11.23 W/m <sup>2</sup>
112	Kilbiruum	6 m <sup>2</sup>	71 W	12.24 W/m <sup>2</sup>
113	Jõusaal	90 m <sup>2</sup>	2121 W	23.47 W/m <sup>2</sup>
114	WC	6 m <sup>2</sup>	93 W	15.73 W/m <sup>2</sup>
115	Duširuum	11 m <sup>2</sup>	186 W	17.40 W/m <sup>2</sup>
116	Leiliruum	8 m <sup>2</sup>	122 W	14.78 W/m <sup>2</sup>
117	Duširuum	8 m <sup>2</sup>	140 W	17.21 W/m <sup>2</sup>
118	WC	3 m <sup>2</sup>	88 W	34.83 W/m <sup>2</sup>
119	Riietusruum 30	21 m <sup>2</sup>	409 W	19.77 W/m <sup>2</sup>
120	Riietusruum 30	19 m <sup>2</sup>	318 W	16.30 W/m <sup>2</sup>
121	Riietusruum 20	14 m <sup>2</sup>	219 W	15.76 W/m <sup>2</sup>
122	WC	2 m <sup>2</sup>	52 W	27.29 W/m <sup>2</sup>
123	Duširuum	5 m <sup>2</sup>	167 W	31.19 W/m <sup>2</sup>
124	Duširuum	6 m <sup>2</sup>	185 W	30.95 W/m <sup>2</sup>
125	WC	2 m <sup>2</sup>	26 W	15.80 W/m <sup>2</sup>
126	Riietusruum 20	16 m <sup>2</sup>	268 W	16.37 W/m <sup>2</sup>
127	Riietusruum 17	12 m <sup>2</sup>	195 W	16.32 W/m <sup>2</sup>
128	WC	2 m <sup>2</sup>	28 W	15.60 W/m <sup>2</sup>
129	Duširuum	8 m <sup>2</sup>	126 W	15.80 W/m <sup>2</sup>
130	Duširuum	8 m <sup>2</sup>	139 W	17.35 W/m <sup>2</sup>
131	WC	2 m <sup>2</sup>	26 W	15.60 W/m <sup>2</sup>
132	Riietusruum 17	12 m <sup>2</sup>	195 W	16.32 W/m <sup>2</sup>
133	Abiruum	7 m <sup>2</sup>	147 W	19.88 W/m <sup>2</sup>
134	Väike saal	64 m <sup>2</sup>	2184 W	33.96 W/m <sup>2</sup>
135	Aeroobikasaal	65 m <sup>2</sup>	1675 W	25.67 W/m <sup>2</sup>
136	Soojussõlm	12 m <sup>2</sup>	269 W	22.10 W/m <sup>2</sup>
201	Fuajee-Rõdu	134 m <sup>2</sup>	3182 W	23.75 W/m <sup>2</sup>
202	Nõupidamiste ruum	24 m <sup>2</sup>	302 W	12.44 W/m <sup>2</sup>
203	Õpetajate tuba	23 m <sup>2</sup>	271 W	11.96 W/m <sup>2</sup>
204	WC	2 m <sup>2</sup>	18 W	10.52 W/m <sup>2</sup>
205	Riietusruum	5 m <sup>2</sup>	102 W	19.02 W/m <sup>2</sup>
206	Duširuum	2 m <sup>2</sup>	19 W	11.54 W/m <sup>2</sup>
207	Vent ruum	25 m <sup>2</sup>	505 W	20.14 W/m <sup>2</sup>
208	Ventruum	33 m <sup>2</sup>	443 W	13.61 W/m <sup>2</sup>
Grand total: 44			42248 W	

## Projekti jooksev kvaliteedi kontroll

- Näiteks ruumide ja ka kogu hoone soojuskaod
- Võimalik lisada valemitega parameetritega
- Võimalik lisada tingimusi mida värviga välja tuua

# Schedule-d 2

# Infragate

<Ruumide õhuhulkade kontroll>							
A	B	C	D	E	F	G	H
Number	Name	Specified Supply Airflow	Actual Supply Airflow	Kontroll SP	Specified Return Airflow	Actual Return	Kontroll VT
101	Tuulekoda	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s
102	Fuajee/liikumisteed	150.0 L/s	300.0 L/s	-150.0 L/s	50.0 L/s	200.0 L/s	-150.0 L/s
103	Koristaja ruum	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s
104	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	0.0 L/s	30.0 L/s
105	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	0.0 L/s	30.0 L/s
106	Inva WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	0.0 L/s	30.0 L/s
107	Tuulekoda	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
108	Spordisaal	3000.0 L/s	2250.0 L/s	750.0 L/s	2970.0 L/s	2472.0 L/s	498.0 L/s
109	Veemõõdukusõlm	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
110	Spordivahendite ru	10.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
111	Spordivahendite ru	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
112	Kilbiruum	10.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
113	Jõusaal	270.0 L/s	270.0 L/s	0.0 L/s	270.0 L/s	270.0 L/s	0.0 L/s
114	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
115	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	80.0 L/s	80.0 L/s	0.0 L/s
116	Leiliruum	10.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
117	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	70.0 L/s	70.0 L/s	0.0 L/s
118	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
119	Riietusruum 30	150.0 L/s	150.0 L/s	0.0 L/s	50.0 L/s	50.0 L/s	0.0 L/s
120	Riietusruum 30	150.0 L/s	150.0 L/s	0.0 L/s	40.0 L/s	40.0 L/s	0.0 L/s
121	Riietusruum 20	100.0 L/s	100.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
122	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
123	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	70.0 L/s	70.0 L/s	0.0 L/s
124	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	70.0 L/s	70.0 L/s	0.0 L/s
125	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
126	Riietusruum 20	100.0 L/s	100.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
127	Riietusruum 17	100.0 L/s	100.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
128	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
129	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	70.0 L/s	70.0 L/s	0.0 L/s
130	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	70.0 L/s	70.0 L/s	0.0 L/s
131	WC	0.0 L/s	0.0 L/s	0.0 L/s	30.0 L/s	30.0 L/s	0.0 L/s
132	Riietusruum 17	100.0 L/s	100.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
133	Abiruum	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
134	Väike saal	270.0 L/s	270.0 L/s	0.0 L/s	270.0 L/s	260.0 L/s	10.0 L/s
135	Aeroobikasaal	270.0 L/s	270.0 L/s	0.0 L/s	270.0 L/s	270.0 L/s	0.0 L/s
136	Soojussõlm	0.0 L/s	0.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
201	Fuajee-Rõdu	120.0 L/s	240.0 L/s	-120.0 L/s	120.0 L/s	0.0 L/s	120.0 L/s
202	Nõupidamiste ruum	130.0 L/s	132.0 L/s	-2.0 L/s	130.0 L/s	132.0 L/s	-2.0 L/s
203	Õpetajate tuba	35.0 L/s	35.0 L/s	0.0 L/s	35.0 L/s	35.0 L/s	0.0 L/s
204	WC	0.0 L/s	0.0 L/s	0.0 L/s	20.0 L/s	0.0 L/s	20.0 L/s
205	Riietusruum	36.0 L/s	36.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s	0.0 L/s
206	Duširuum	0.0 L/s	0.0 L/s	0.0 L/s	16.0 L/s	0.0 L/s	16.0 L/s
207	Vent ruum	10.0 L/s	10.0 L/s	0.0 L/s	10.0 L/s	10.0 L/s	0.0 L/s
208	Ventruum	15.0 L/s	15.0 L/s	0.0 L/s	15.0 L/s	15.0 L/s	0.0 L/s
Grand total: 44		5036.0 L/s	4558.0 L/s		5056.0 L/s	4434.0 L/s	

21. oktoober 2020

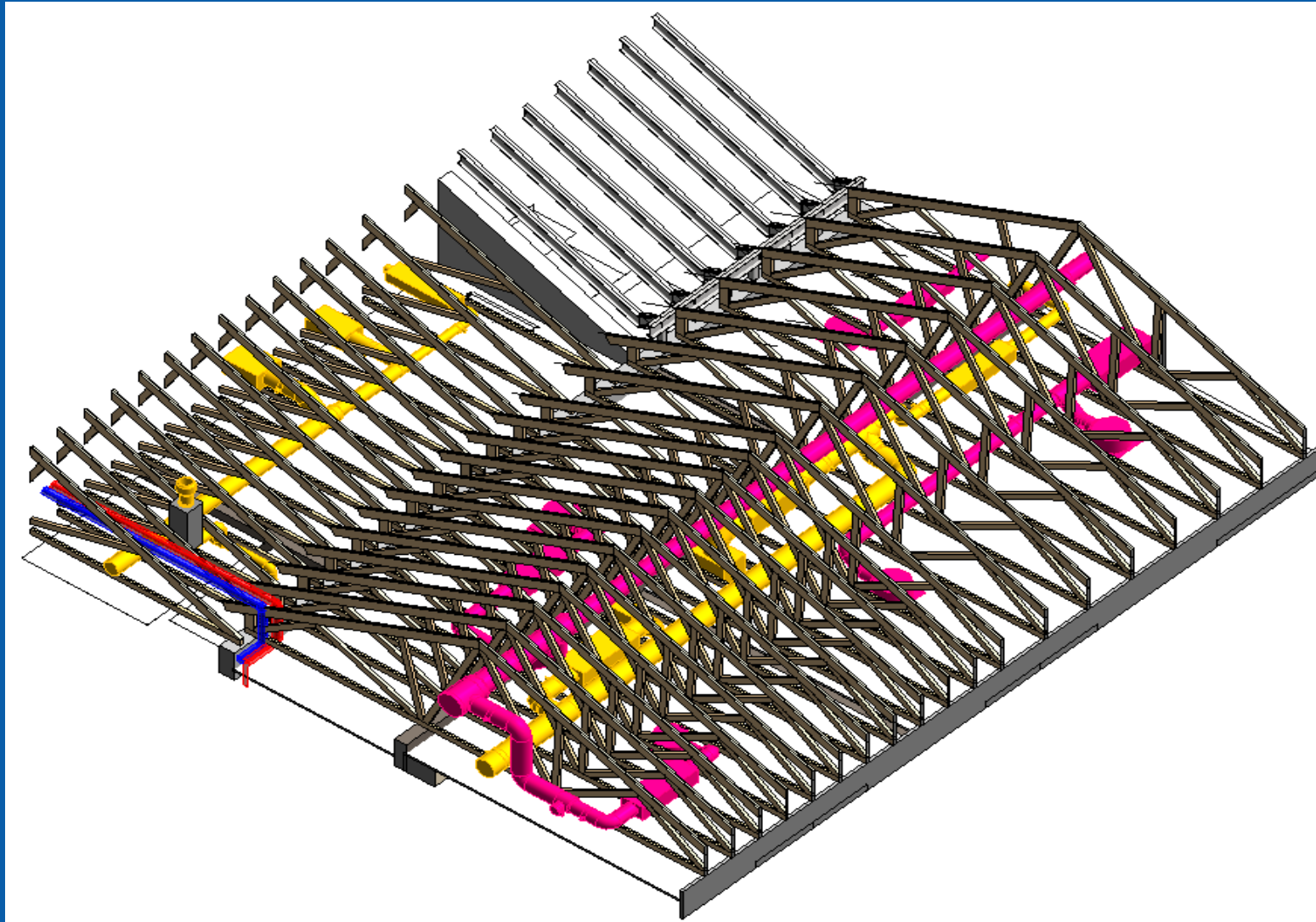






# Mudelis joonestamine

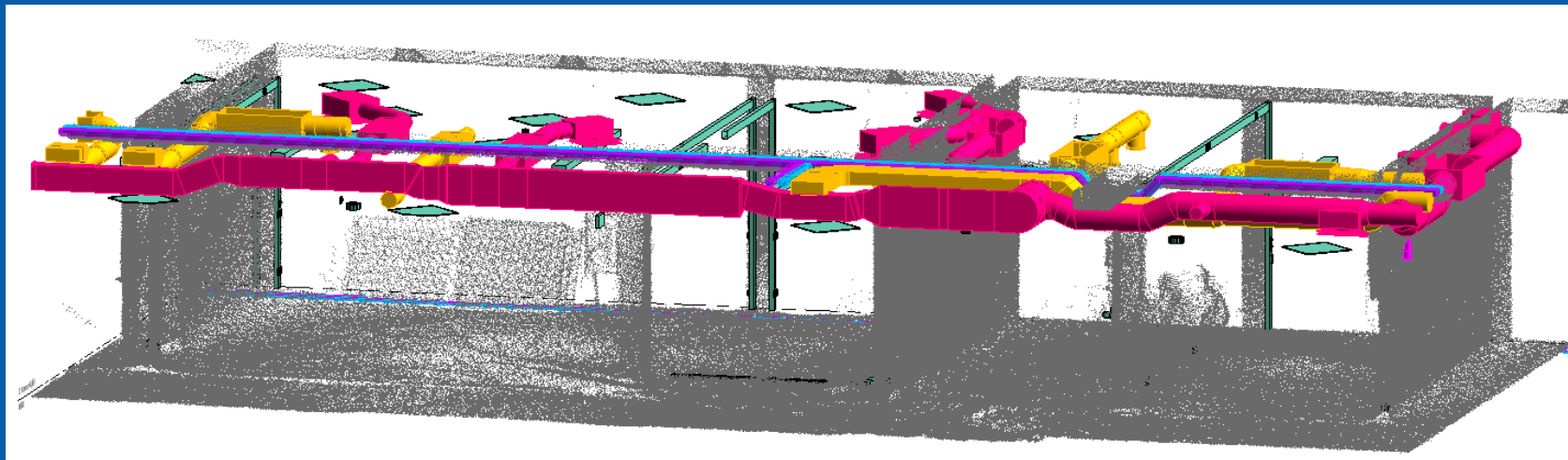
Infragate



# Point cloud-i kasutamine

Infragate

- Rekonstrueerimiste puhul:
  - 1) Vahetu ja täpne info objektilt
  - 2) Probleem võib olla kinnised laetagused



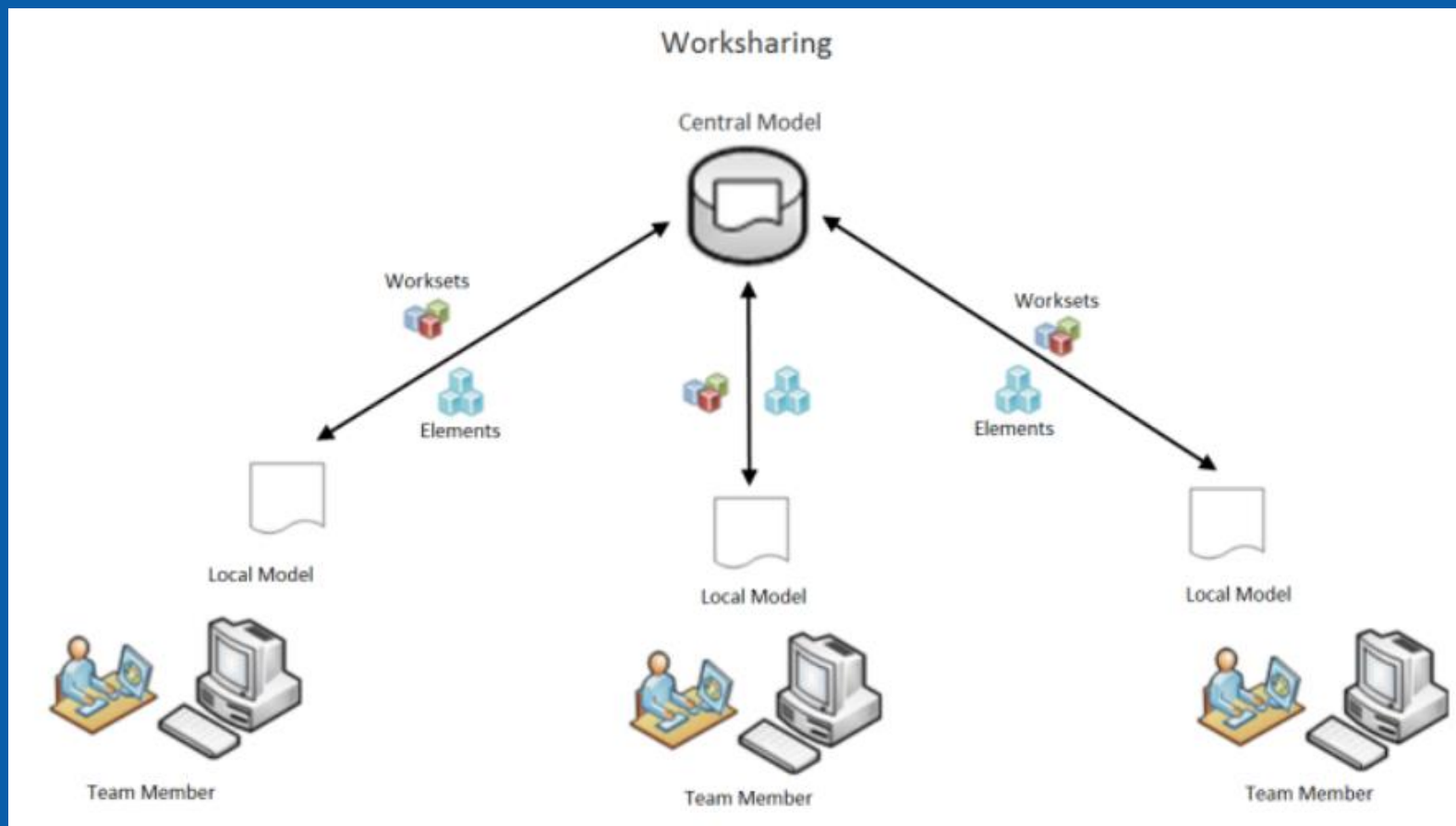
21. oktoober 2020

Mudelprojekteerimise plaan



# Tsentraalmudeli rakendamine

Infragate



21. oktoober 2020

# Järeldused?

infragate

