



SCHEMATIC FOR RESIDENT TIME CALCULATION

PROJECT

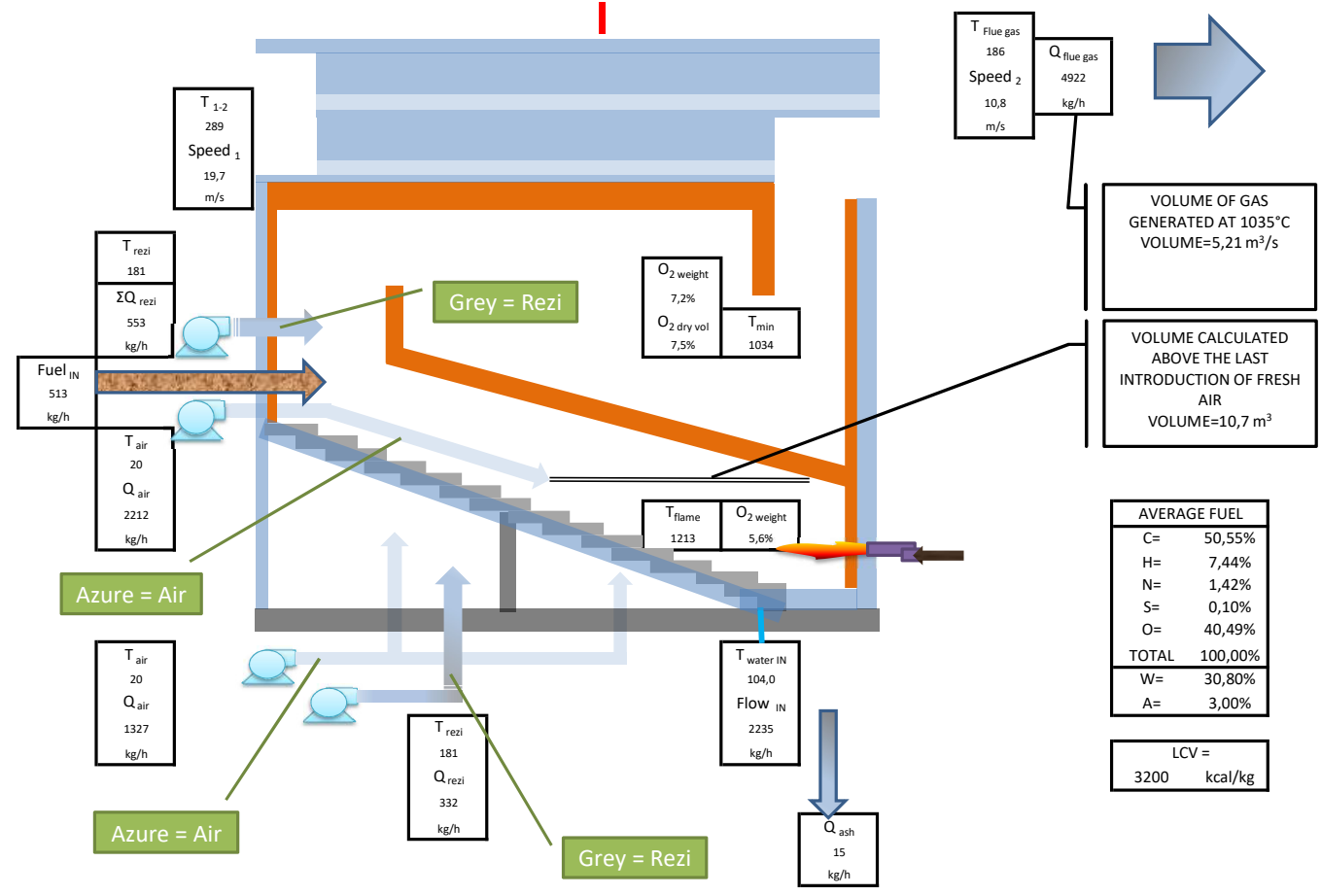
Name:	Besblock
Country:	UK
Emitted	Checked
23/06/2020	23/06/2020

$$\tau = \frac{\text{Volume above last introduction of air}}{\text{Volume of flue gas generated}} = 2,07 \text{ seconds}$$

Power yield
1651
kW

T_{steam OUT}
158,90

F.G. COMPOSITION	FG Dry V
O2	7,2%
CO2	15,6%
H2O	9,5%
N2	67,6%
SO2	0,0%
ρ0	1,266 kg/m ³



T_{Flue gas}
186
Speed₂
10,8
m/s

Q_{flue gas}
4922
kg/h

VOLUME OF GAS
GENERATED AT 1035°C
VOLUME=5,21 m³/s

VOLUME CALCULATED
ABOVE THE LAST
INTRODUCTION OF FRESH
AIR
VOLUME=10,7 m³

AVERAGE FUEL	
C=	50,55%
H=	7,44%
N=	1,42%
S=	0,10%
O=	40,49%
TOTAL	100,00%
W=	30,80%
A=	3,00%

LCV =
3200 kcal/kg

T₁₋₂
289
Speed₁
19,7
m/s

T_{rezi}
181
ΣQ_{rezi}
553
kg/h

Fuel_{IN}
513
kg/h

T_{air}
20
Q_{air}
2212
kg/h

Azure = Air

T_{air}
20
Q_{air}
1327
kg/h

Azure = Air

T_{rezi}
181
Q_{rezi}
332
kg/h

Grey = Rezi

O₂ weight
7,2%
O₂ dry vol
7,5%
T_{min}
1034

T_{flame}
1213
O₂ weight
5,6%

T_{water IN}
104,0
Flow_{IN}
2235
kg/h

Q_{ash}
15
kg/h