Roggenbier

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU ---
- SRM **7.4**
- Style Roggenbier

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 13 %/h
- Boil size 26.7 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 17.1 liter(s)
- Total mash volume 22.8 liter(s)

Steps

- Temp 64 C, Time 45 min
 Temp 72 C, Time 20 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 17.1 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 45 min at 64C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 15.3 liter(s) of 76C water or to achieve 26.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Żytni	3 kg <i>(52.6%)</i>	85 %	8
Grain	Pilzneński	1.4 kg <i>(24.6%)</i>	81 %	4
Grain	Monachijski	1 kg <i>(17.5%)</i>	80 %	16
Grain	Caramunich® typ I	0.3 kg <i>(5.3%)</i>	73 %	80