AMBERROGGEN

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU **18**
- SRM **9.1**
- Style Roggenbier

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19.8 liter(s)
- Total mash volume 26.4 liter(s)

Steps

- Temp 63 C, Time 30 min
 Temp 67 C, Time 15 min
- Temp 72 C, Time 40 min

Mash step by step

- Heat up 19.8 liter(s) of strike water to 70.2C
- Add grains
- Keep mash 30 min at 63C
- Keep mash 15 min at 67C
- Keep mash 40 min at 72C
- Sparge using 14.6 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Żytni	3 kg <i>(45.5%)</i>	85 %	8
Grain	Pilzneński	3 kg <i>(45.5%)</i>	81 %	4
Grain	Cara Gold Castlemalting	0.2 kg <i>(3%)</i>	78 %	120
Grain	Simpsons - Crystal Rye	0.2 kg <i>(3%)</i>	73 %	177
Grain	Melanoiden Malt	0.2 kg <i>(3%)</i>	80 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau	25 g	60 min	3.9 %
Boil	Hallertau	5 g	30 min	3.9 %
Boil	Mandarina Bavaria	10 g	15 min	10 %
Boil	Mandarina Bavaria	20 g	10 min	5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Hame	i ypc	1 01 111	Aillouit	Laboratory

FM41 Gwoździe i	Wheat	Slant	800 ml	Fermentum Mobile
Banany				

Extras

Туре	Name	Amount	Use for	Time
Spice	Curacao	10 g	Boil	10 min
Spice	Jaśmin	10 g	Boil	10 min