east

- Gravity 12.4 BLG
- ABV ----
- IBU 26
- SRM 6

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 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp 53 C, Time 15 min
 Temp 64 C, Time 30 min
 Temp 72 C, Time 20 min

Mash step by step

- Heat up 13.5 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 15 min at 53C
- Keep mash 30 min at 64C
- Keep mash 20 min at 72C
- Sparge using 16.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (66.7%)	81 %	4
Grain	Monachijski	1 kg (22.2%)	80 %	16
Grain	Briess - Pale Ale Malt	0.5 kg <i>(11.1%)</i>	80 %	7

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	8.7 %
Boil	Lublin (Lubelski)	20 g	20 min	3.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	