Jarząb pierwszy

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **19**
- SRM 2.6

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 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp **52 C**, Time **20 min** Temp **62 C**, Time **20 min** Temp **72 C**, Time **40 min**
- Temp **76.5 C**, Time **20 min**
- Temp **100 C**, Time **60 min**

Mash step by step

- Heat up 15 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 20 min at 52C
- Keep mash 20 min at 62C
- Keep mash 40 min at 72C
- Keep mash 20 min at 76.5C
- Keep mash 60 min at 100C
- Sparge using 17.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	słód pilsneski	5 kg <i>(100%)</i>	%	2.1

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	10 min	10 %
Boil	Lublin (Lubelski)	25 g	50 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale