Bitter #1

- Gravity 13.1 BLG
- ABV ----
- IBU 27
- SRM **9.4**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 35 liter(s)
- Trub loss 5 %
- Size with trub loss 36.8 liter(s)
- · Boil time 60 min
- Evaporation rate 3 %/h
- Boil size 40.4 liter(s)

Mash information

- Mash efficiency 74 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 27.3 liter(s)
- Total mash volume 36.4 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 75 C, Time 5 min

Mash step by step

- Heat up 27.3 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 5 min at 75C
- Sparge using 22.2 liter(s) of 76C water or to achieve 40.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg <i>(44%)</i>	80 %	5
Grain	Strzegom Wiedeński	4 kg <i>(44%)</i>	79 %	14
Grain	Strzegom Karmel 150	0.6 kg <i>(6.6%)</i>	75 %	150
Grain	Wędzony bukiem Viking Malt	0.5 kg <i>(5.5%)</i>	80 %	10

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	80 g	60 min	4.6 %
Boil	East Kent Goldings	20 g	10 min	4.6 %
Boil	Lomik	15 g	10 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	23 g	Fermentis

Extras

Type Name	Amount	Use for	Time
-----------	--------	---------	------

Fining	Whirfloc	1 a	Boil	15 min
Fining	WITHITIOC	1 + 9	ווטם	15 min