Bitter v45L v.2

- Gravity 11.4 BLG
- ABV 4.6 %
- IBU **30**
- SRM **7.7**
- Style Special/Best/Premium Bitter

Batch size

- Expected quantity of finished beer 40 liter(s)
- Trub loss 10 %
- Size with trub loss 46 liter(s)
- Boil time 65 min
- Evaporation rate 15 %/h
- Boil size 55.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 28.4 liter(s)
- Total mash volume 37.8 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 28.4 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 78C
- Sparge using 36.9 liter(s) of 76C water or to achieve 55.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	9 kg <i>(95.2%)</i>	80 %	5
Grain	Aroma - Brewferm	0.4 kg <i>(4.2%)</i>	78 %	150
Grain	Jęczmień palony	0.05 kg <i>(0.5%)</i>	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	90 g	60 min	5.1 %
Boil	East Kent Goldings	50 g	10 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	
Mangrove Jack's M07 British Ale	Ale	Dry	10 g	