Bitter

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **36**
- SRM **7.5**
- Style Special/Best/Premium Bitter

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

• Temp 67 C, Time 60 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Sparge using 13.9 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (90%)	80 %	5
Grain	Biscuit Malt	0.25 kg <i>(5%)</i>	79 %	45
Grain	crystal 1	0.25 kg <i>(5%)</i>	78 %	160

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	11 %
Aroma (end of boil)	East Kent Goldings	50 g	0 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Liquid	1000 ml	Wyeast Labs