Grześ ale

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **30**
- SRM 3.7

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 4 liter(s) / kg
- Mash size 20 liter(s)
- Total mash volume 25 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 62 C, Time 45 min
 Temp 72 C, Time 15 min

- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 20 liter(s) of strike water to 56C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 10.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	5 kg (100%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	20 g	60 min	11.8 %
Aroma (end of boil)	East Kent Goldings	20 g	10 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us-05	Ale	Dry	11 g	