pils pale ale

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **33**
- SRM 3.4
- Style Dortmunder Export

Batch size

- Expected quantity of finished beer 27 liter(s)
- Trub loss 5 %
- Size with trub loss 28.4 liter(s)
- Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 32.9 liter(s)

Mash information

- Mash efficiency 96 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 51 C, Time 15 min
 Temp 67 C, Time 60 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 55.4C
- Add grains
- Keep mash 15 min at 51C
- Keep mash 60 min at 67C
- Sparge using 20.4 liter(s) of 76C water or to achieve 32.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	9 %
Boil	Hallertau Tradition PL	20 g	60 min	5.6 %
Boil	Brewers Gold	20 g	20 min	5.2 %
Boil	Hallertau Tradition PL	20 g	10 min	5.6 %