German Pilsner

- Gravity 11.2 BLG
- ABV ----
- IBU 28
- SRM 3.6
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 0 %
- Size with trub loss 20 liter(s)
- Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 28.2 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 19 liter(s)
- Total mash volume 23.8 liter(s)

Steps

- Temp 64 C, Time 50 min
 Temp 72 C, Time 20 min
- Temp 77 C, Time 5 min

Mash step by step

- Heat up 19 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 20 min at 72C
- Keep mash 5 min at 77C
- Sparge using 14 liter(s) of 76C water or to achieve 28.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Słód Pilzneński Premium	4.5 kg <i>(94.7%)</i>	81 %	3
Grain	Castlemalting - Biscuit Malt	0.1 kg <i>(2.1%)</i>	79 %	50
Grain	Cara-Pils/Dextrine	0.15 kg <i>(3.2%)</i>	72 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau Spalt Select	10 g	90 min	6.1 %
Boil	Hallertau Spalt Select	20 g	30 min	6.1 %
Aroma (end of boil)	Hallertau Spalt Select	10 g	20 min	6.1 %
Aroma (end of boil)	Hallertau Spalt Select	10 g	15 min	6.1 %
Aroma (end of boil)	Hallertau Spalt Select	10 g	5 min	6.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 2007 Pilsen Lager	Lager	Liquid	100 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirlflock	1.25 g	Boil	10 min
Water Agent	Sól Epsom	3 g	Mash	65 min
Water Agent	Kwas fosforowy	2 g	Mash	65 min