Pils

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **50**
- SRM **3.7**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 2 %
- Size with trub loss 21.4 liter(s)
- · Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 24.3 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 **62 C**, Time **30 min** Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 17.5 liter(s) of strike water to 68C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 0 min at 78C
- Sparge using 11.8 liter(s) of 76C water or to achieve 24.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Słód PILZNEŃSKI Strzegom	5 kg <i>(100%)</i>	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	35 g	60 min	6.3 %
Boil	Chinook	15 g	30 min	13 %
Boil	Cascade USA	20 g	10 min	7.1 %
Aroma (end of boil)	Szyszka	40 g	5 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	250 ml	