Jacek

- Gravity 10 BLG
- ABV 4 %
- IBU **11**
- SRM **3.2**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 5 %
- Size with trub loss 15.8 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9 liter(s)
- Total mash volume 12 liter(s)

Steps

- Temp 62 C, Time 60 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 15 min

Mash step by step

- · Heat up 9 liter(s) of strike water to 69C
- Add grains
- Keep mash 60 min at 62C
- Keep mash 15 min at 72C Keep mash 15 min at 78C
- Sparge using 13 liter(s) of 76C water or to achieve 19 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (100%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sybilla	22 g	15 min	6.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	6 g	Fermentis