Germański najeźdźca

- Gravity 15 BLG
- ABV 6.2 %
- IBU **33**
- SRM **4.5**
- 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 60 min
- Evaporation rate 15 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 78 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 22 liter(s)
- Total mash volume 27.5 liter(s)

Steps

- Temp 62 C, Time 30 min
 Temp 72 C, Time 30 min

Mash step by step

- Heat up 22 liter(s) of strike water to 67.3C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Sparge using 8.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	5 kg <i>(90.9%)</i>	81 %	5
Grain	Weyermann - Carapils	0.5 kg <i>(9.1%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	35 g	60 min	8.1 %
Boil	Hallertau Mittelfruh	50 g	5 min	3 %