Szybki pils na odpi...

- Gravity 12.4 BLG
- ABV 5 %
- IBU **20**
- SRM **4.4**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 28 liter(s)
- Trub loss 5 %
- Size with trub loss 29.4 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 35.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.4 liter(s)
- Total mash volume 27.2 liter(s)

Steps

- Temp 54 C, Time 15 min
 Temp 67 C, Time 45 min
- Temp **75** C, Time **10** min

Mash step by step

- Heat up 20.4 liter(s) of strike water to 59.7C
- Add grains
- Keep mash 15 min at 54C
- Keep mash 45 min at 67C
- Keep mash 10 min at 75C
- Sparge using 21.8 liter(s) of 76C water or to achieve 35.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	5.8 kg (85.3%)	81 %	4
Grain	Monachijski	1 kg <i>(14.7%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	8.8 %
Whirlpool	Saaz (Czech Republic)	35 g	15 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	23 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	20 min
Water Agent	Kwas mlekowy	4 g	Mash	5 min

Wysladzanie 9 L wody				
Water Agent	Gips	3 g	Mash	60 min