

Jasne Pełne

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **29**
- SRM **6.6**
- Style **Classic American Pilsner**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.6 liter(s) / kg**
- Mash size **21.6 liter(s)**
- Total mash volume **27.6 liter(s)**

Steps

- Temp **63 C**, Time **30 min**
- Temp **73 C**, Time **40 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **21.6 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **63C**
- Keep mash **40 min** at **73C**
- Keep mash **5 min** at **76C**
- Sparge using **10.9 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.5 kg (75%)	80 %	4
Grain	Monachijski	1 kg (16.7%)	80 %	16
Grain	Karmelowy 50 - Viking Malt	0.5 kg (8.3%)	79 %	50

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	10 %
Boil	Lublin (Lubelski)	25 g	15 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Danstar - Nottingham	Ale	Dry	11 g	Danstar