

pizprzen

- Gravity **15.9 BLG**
- ABV **6.7 %**
- IBU **27**
- SRM **4.7**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **80 min**
- Evaporation rate **10 %/h**
- Boil size **27.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

Steps

- Temp **50 C**, Time **15 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **1 min**

Mash step by step

- Heat up **15.3 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **15 min** at **50C**
- Keep mash **30 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **77C**
- Sparge using **17.1 liter(s)** of **76C** water or to achieve **27.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.3 kg (37.7%)	81 %	4
Grain	Pszeniczny	2.3 kg (37.7%)	85 %	4
Grain	Strzegom Karmel 30	0.5 kg (8.2%)	75 %	30
Sugar	cukier brązowy	1 kg (16.4%)	--- %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	50 g	50 min	4 %
Boil	Lublin (Lubelski)	50 g	15 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
t55	Lager	Slant	500 ml	---