

## XXXII PIPA

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- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **17**
- SRM **5.5**
- Style **American Pale Ale**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **21 liter(s)**

### Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **20 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg (50%)	81 %	4
Grain	Strzegom Monachijski typ I	2 kg (33.3%)	79 %	16
Grain	Płatki owsiane	0.5 kg (8.3%)	85 %	3
Grain	Pszeniczny	0.5 kg (8.3%)	85 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Zula	20 g	50 min	8.3 %
Aroma (end of boil)	Zula	20 g	5 min	8.3 %
Whirlpool	Zula	60 g	0 min	8.3 %
Dry Hop	Zula	100 g	2 day(s)	8.3 %