

# PIRAmida Cheopsa

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- Gravity **12.9 BLG**
- ABV ---
- IBU **26**
- SRM **20.6**
- Style **Irish Red Ale**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **10 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **30.4 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **16.6 liter(s)**
- Total mash volume **22.1 liter(s)**

## Steps

- Temp **64 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **4 min**

## Mash step by step

- Heat up **16.6 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **30 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **4 min** at **78C**
- Sparge using **19.3 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4.7 kg (85%)	81 %	4
Grain	Monachijski	0.55 kg (9.9%)	80 %	16
Grain	Strzegom Karmel 600	0.17 kg (3.1%)	68 %	601
Grain	Jęczmień palony	0.11 kg (2%)	55 %	985

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	11 %
Boil	Sybilla	20 g	15 min	5.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale