

Warka 4 ipa

- Gravity **13.6 BLG**
- ABV **5.6 %**
- IBU **45**
- SRM **4.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **19.3 liter(s)**
- Total mash volume **24.8 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 4.5 kg (81.8%) | 79 % | 6 |
| Grain | Przeniczny | 0.5 kg (9.1%) | 80 % | --- |
| Grain | Żytni | 0.5 kg (9.1%) | 85 % | 8 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Citra | 15 g | 60 min | 12 % |
| Boil | Citra | 15 g | 30 min | 12 % |
| Boil | Taiheke | 15 g | 18 min | 6.7 % |
| Boil | Taiheke | 15 g | 8 min | 6.7 % |
| Boil | Zythos | 30 g | 2 min | 9.1 % |

Notes

- Słody wrzucamy w 58 stopniach pierwsza przerwa w 62st,na 20min druga przerwa w 72st.na 40min.Wygrzew w 78 10min
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